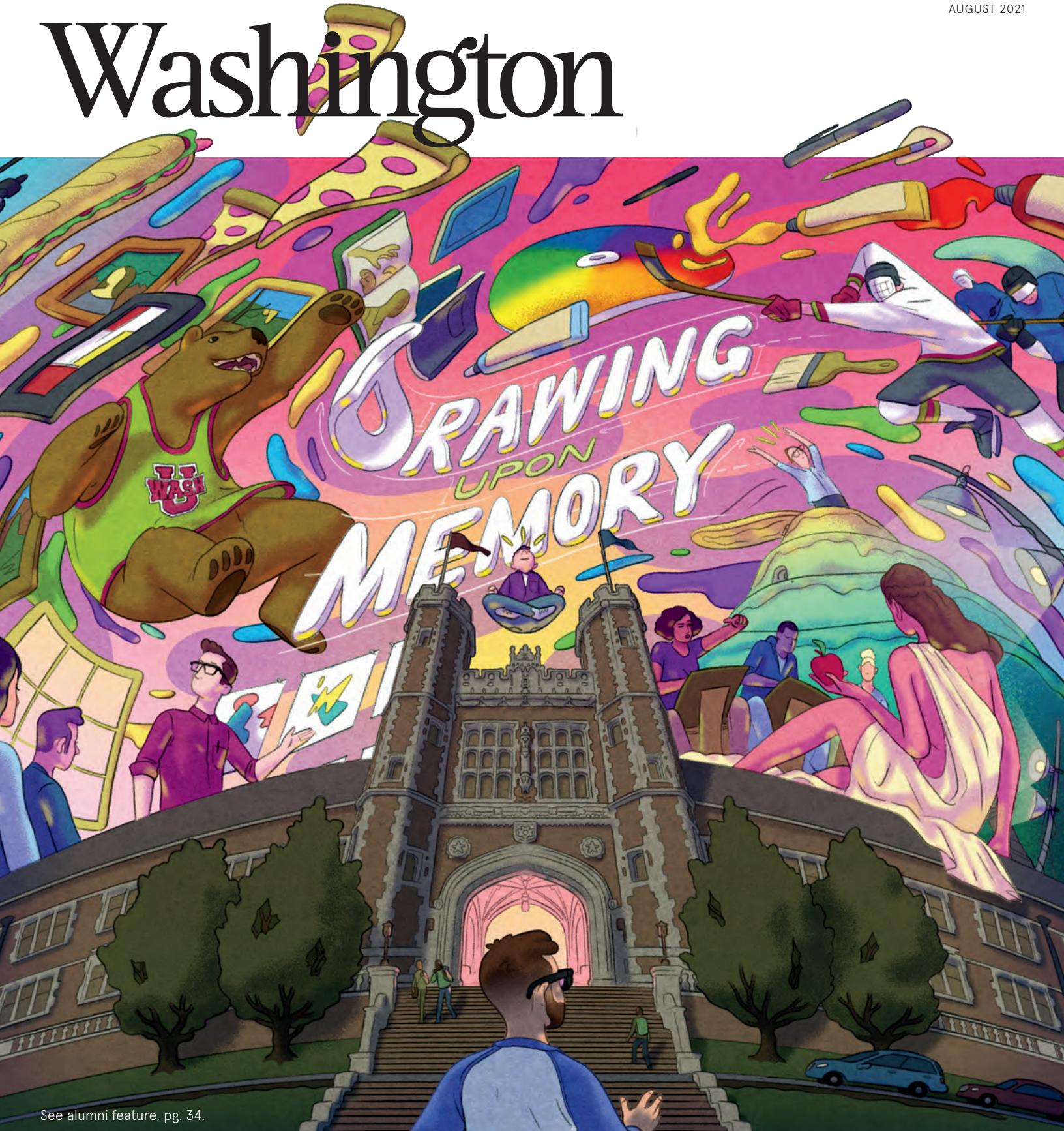


Washington



See alumni feature, pg. 34.

In Search of Refuge

Researchers look at whether Ozark oases at Tyson Research Center — climate change refugia — could help species persist in spite of rising temperatures, pg. 20.

Prep Squad

WashU started the College Prep Program in 2014 to help prepare talented local students for college and beyond. Meet six of the program's first college graduates, pg. 28.

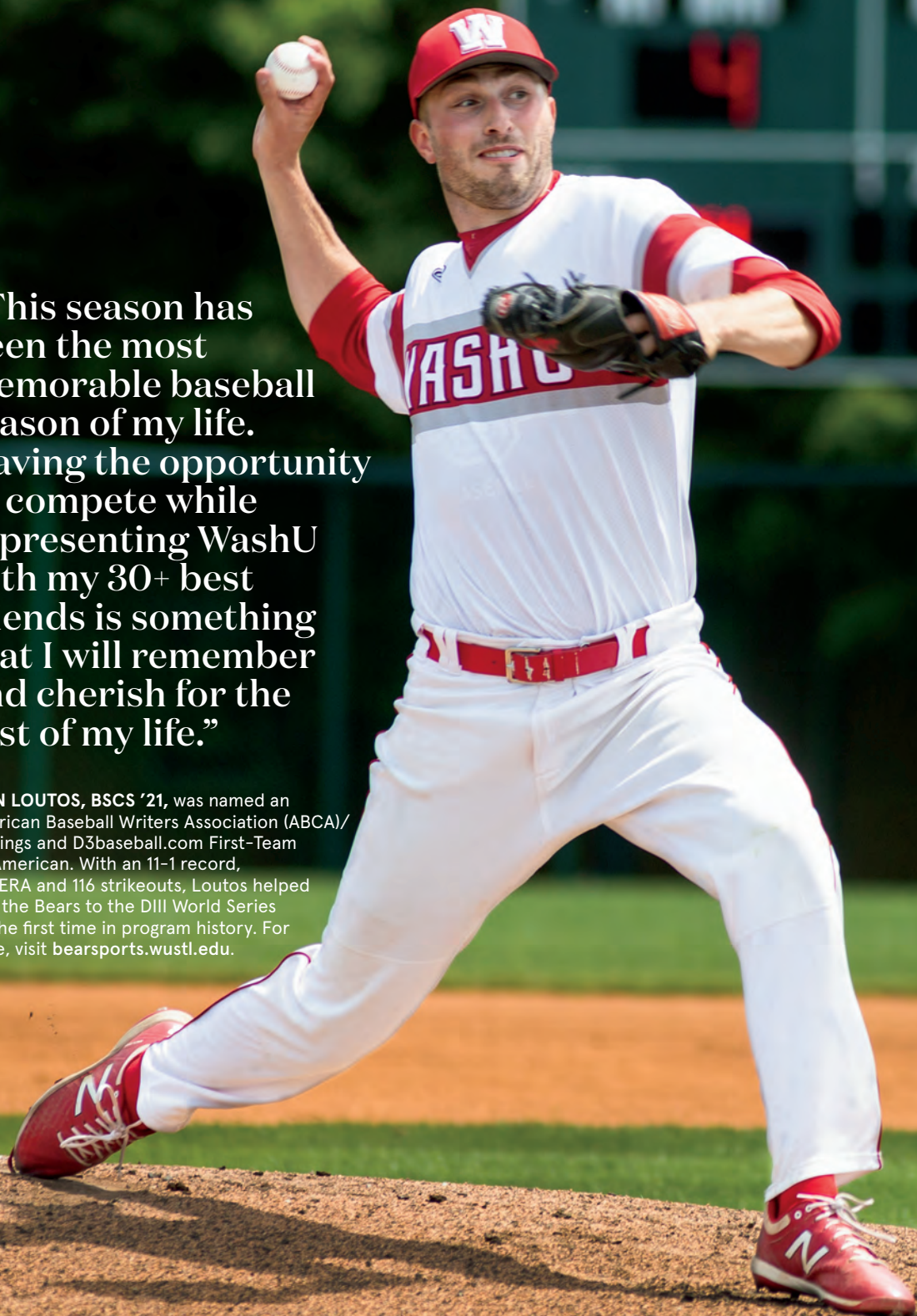
Surviving a Syrian Prison

Graduate student Sam Goodwin describes how he persevered through a two-month imprisonment in Syria and how the experience informs his current perspective, pg. 47.

Students

“This season has been the most memorable baseball season of my life. Having the opportunity to compete while representing WashU with my 30+ best friends is something that I will remember and cherish for the rest of my life.”

RYAN LOUTOS, BSCS '21, was named an American Baseball Writers Association (ABCA)/Rawlings and D3baseball.com First-Team All-American. With an 11-1 record, 1.33 ERA and 116 strikeouts, Loutos helped lead the Bears to the DIII World Series for the first time in program history. For more, visit bearsports.wustl.edu.





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DEPARTMENTS

IN EVERY ISSUE

FROM THE CHANCELLOR
FEEDBACK 2
3

IN ST. LOUIS 4
NEWS FROM AROUND
THE UNIVERSITY

CAMPUS NEWS 6
RESEARCH ROUNDUP 10
ON TOPIC 12
QUOTED 13
COURSEWORK 14
BOOKSHELF 16
POINT OF VIEW 18

NEXT 40
THE WORLD OF OUR
WASHU ALUMNI

ALUMNI PROFILES 42
FIRST PERSON 47
MY WASHINGTON 48
ALUMNI ACTIVITIES 50
CLASS NOTES 52
IN MEMORIAM 60
LASTING IMPRESSION 64

FEATURES

20
In Search of Refuge

Researchers look at whether Ozark oases at Tyson Research Center — climate change refugia — could help species persist in spite of rising temperatures.

28
Prep Squad

WashU started the College Prep Program in 2014 to help prepare talented local students for college and beyond. Meet six of the program's first college graduates.

34
**Drawing Upon
Memory**

As they say, some memories never fade. Here, alumni artists illustrate one of their favorites from their time as university students.

ON THE COVER

Morgan Schweitzer, BFA '07, illustrates a rendition of himself "looking up at Brookings, reminiscing about all the things that made my college years special: hockey players (I played hockey), drawing class, the Bear mascot, a giant cake I built with some fellow students for a sculpture project, a color wheel, a sub sandwich (I ate a lot of Jimmy Johns) and more," he says. (morganrayschweitzer.com; instagram: @magicthrills) See five other alumni draw upon their memories on pg. 34.

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Photo: James Byard

A fresh start

Chancellor Andrew D. Martin's first in-person Commencement as chancellor included eight separate ceremonies for the Class of 2021 and three for the Class of 2020 in May.

Greetings from Washington University's Danforth Campus! Throughout the past year and a half, there were often times when I thought we'd never get here — to the start of an academic term that begins to look more like the ones we had prior to the pandemic. With the new academic year starting in just a few short weeks, our Danforth and Medical campuses are both buzzing once again with activity. With fewer restrictions than we had in place last year, there seems to be a rejuvenated energy in the air.

I will be thrilled to welcome our Class of 2025 along with our international, transfer and exchange students, and our newest cohort of graduate, professional and medical students. We continue to enroll an increasingly diverse and highly talented student body, and I look forward to seeing how each of them will engage in our many university traditions and with the St. Louis region.

I'm also pleased that, through our strengthened resolve to increase educational access, we have been able to attract even more talented first-generation, low-income and underrepresented students of color. Our College Prep Program, which you can read more about starting on pg. 28, is just one of the many programs helping us increase access to higher education and attract exceptional students. This continues to be one of our highest priorities and a significant part of our strategic planning, which is now well underway.

While our students will soon settle into a new term, our faculty and staff continue the important work of advancing our mission and place of distinction in education, research and patient care. In this issue, you'll learn about some of that extraordinary work — from a new master's program in genetic counseling to climate change research taking place at the Tyson Research Center and funded by the

Living Earth Collaborative, research about the disproportionate impact the pandemic has had on communities of color, and more. You'll also learn about some of the innovative ways our faculty members are engaging students to prepare them to become values-based leaders in a rapidly changing world. A joint class through Olin Business School and Arts & Sciences called "Morality and Markets," taught by Peter Boumgarden, professor of practice of strategy and organization, and Abram Van Engen, associate professor in English, is one such example.

Meanwhile, our WashU alumni are doing their part to make the world a better place. This issue highlights a number of inspiring stories, including an alumna engaging in scientific research at NASA and an alumnus spearheading data integrity for the Negro Leagues. Further, the cover story highlights six accomplished alumni artists as they share their favorite university memories. I'm continually impressed by the work of our alumni and the many ways they embody our spirit, mission and values.

With what feels like a fresh start — on what I can only hope is the tail end of this historic pandemic — I remain confident that here at Washington University we are moving in the right direction. And as always, I remain grateful for our entire community and the many ways you contribute to and support the essential work we do to improve lives in service of the greater good. Thank you especially for your dedication during such an unprecedented time, and warm wishes as you, too, embark on this new season.

Andrew D. Martin
Chancellor



@WashUChancellor

FEEDBACK



THE APRIL 2021 ISSUE

“I am grateful to receive WashU’s magazine here abroad. And I have never felt more encompassed within the WashU community, even after graduation. And it is all [due to] the news and stories that the magazine offers. I really appreciate all you do for us.”

SEOK JOONG (SJ) YUN, AB '18

“I love the online version of the Washington University magazine!

And how great for the environment!”

ROMA WITTCOFF, BSBA '45

“As I read the April issue’s ‘Point of View’ by Professor Thakor, I thought about Washington University as a business and its higher purpose. The following line really resonated with me: ‘Employees believe they work in an organization of excellence, and customers and other external constituents are drawn to and confirm the excellence by joining in the co-creation of the organization’s future.’

“As an alumnus, I was a customer of this excellent organization, and I was moved by the dedication of faculty and staff to a higher purpose. Today, I confirm that excellence by being a donor and in some small way joining in the co-creation of the university’s future.

“Thanks to you and all of the university community as you work to that higher purpose.”

KEN GIBBS, BSEE '76

The editors are excited to report that the magazine has won three 2021 CASE Circle of Excellence Awards. It has won a gold award in the “Magazines: Publishing Improvement” category; silver in the “Writing: Feature” category, for “The Twilight’s Last Gleaming”; and gold in the “Video: News and Research Videos” category for “Sacred Sediments,” a video complement to April’s cover story, “Highlands Hunt for Climate Answers.”

FOR MORE ON THE AWARDS, VISIT [CASE.ORG/AWARDS/CIRCLE-EXCELLENCE-AWARDS](https://case.org/awards/circle-excellence-awards).

[Correction]

“Love the magazine. FYI: The typesetter misspelled Dr. Sharma’s imaging agent as Glauminox in the print version. I haven’t checked the online version, but if it’s not corrected there, you could do so.”

GREG GORMAN, MD '97

The editors regret the misspelling of Galuminox on pg. 9 in Research Roundup. Yet we love having careful readers and thank Dr. Gorman for bringing the error to our attention.

We want to hear from you!

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For additional news, features, videos and more, visit the digital magazine at magazine.wustl.edu.



ST. LOUIS *In*

Outstanding

On three days in May, WashU held Commencement ceremonies for the Class of 2021 *and* the Class of 2020. To pull off the event for the more than 3,200 graduates attending from 2021, and keep people socially distanced, the university hosted eight ceremonies. For the more than 1,300 Class of 2020 graduates returning, the university hosted three ceremonies. At right are three 2021 Sam Fox School of Design & Visual Arts grads. Visit commencement.wustl.edu for more.

Photo: Danny Reise



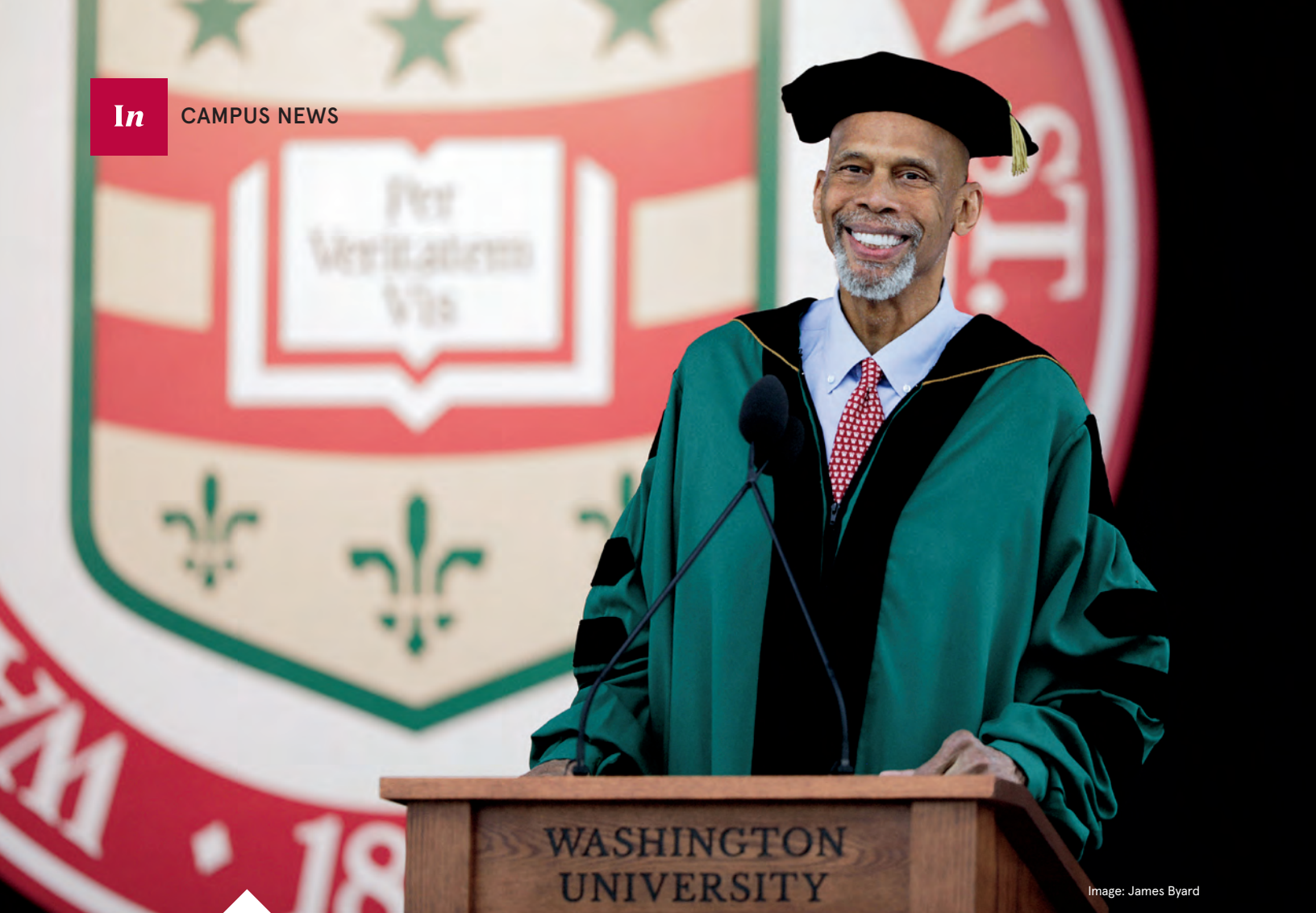


Image: James Byard

A COMMENCEMENT LIKE NO OTHER

The 2021 Commencement speaker was Basketball Hall of Famer, author and social activist **Kareem Abdul-Jabbar**, who told graduates to write their own stories – but to make sure they went beyond themselves.

“You are the authors of your next chapter and can be whoever and whatever you choose,” Abdul-Jabbar said in a speech he recorded at the university May 19. “I hope your story will include a few pages in which you went out into the world and demanded justice, demanded fair play, demanded equality for all people.”

It was a strong and passionate message, reflecting the unprecedented time in which the graduates had lived and studied – including the previous 14 months under a global pandemic and, as **Chancellor Andrew D. Martin** put it, “numerous tragedies on our ongoing quest for equity for all people, especially people of color.”

“It wasn’t the college experience you imagined while in high school, dreaming of uncrowded classrooms and crowded parties,” Abdul-Jabbar said to the more than 3,200 undergraduate, graduate and professional students being conferred degrees. “But learning how to endure unpredictable challenges is probably the most important lesson college can teach you. I’m not talking about just surviving; I’m talking about thriving.”

The 2021 Commencement ceremonies themselves, all eight of them over the course of two days, were unlike anything the university had ever undertaken, beginning with the Francis Olympic Field location, which turned out to be the perfect venue to hold the events safely and smoothly.

CLASS OF 2025 DEMOGRAPHICS

- 33,634 applications, a 20% increase over last year
- 4,374 admitted students:
 - From all 50 states
 - From 45 countries
 - 13% are Pell Grant-eligible
 - 15% are Black
 - 15% are Latino
 - 10% are first-generation
- Admissions this year were standardized-test optional, and 41% of applicants chose not to submit a test score.
- Students were invited to submit a short video about themselves, and 27% did.

For more, visit source.wustl.edu/2021/05/thriving-in-unpredictable-challenges.



Brand values attract customers

Today’s consumers are more attuned to brands’ values and willing to pay a premium to support companies that share their values, according to new research from the Bauer Leadership Center at Washington University and Vrity, a brand measurement company specializing in values.

Additionally, the majority of consumers – 54% – now say companies should take a stand on issues, even if they disagree with that stance.

The findings come from a survey conducted in January by Vrity. To study generational differences in consumer values and how the COVID-19 pandemic has impacted brand-related purchasing behaviors, researchers surveyed 1,072 people across America about recent employment changes, personal values and the brand values that matter most to them.

“I think the most interesting findings are about generational similarities and differences in values, causes and the effect of values, and causes on purchasing behavior,” says **Stuart Bunderson**, director of the Bauer Leadership Center and the George & Carol Bauer Professor of Organizational Ethics & Governance at Olin Business School.

GRATITUDE IS SUBJECT OF NEW VIDEO SERIES

In his new video series, “The Gratitude Project,” happiness expert **Tim Bono, AB ’05, MA ’08, PhD ’11**, assistant dean in the College of Arts & Sciences and lecturer in psychological & brain sciences, shares inspirational stories about people doing important work in our community. Find out more at hr.wustl.edu/the-gratitude-project.

PROFESSIONAL ACHIEVEMENT

Chancellor Andrew D. Martin and four other Washington University faculty members – **Deanna Barch, John Baugh, Pascal Boyer** and **Holden Thorp** – were elected members of the American Academy of Arts & Sciences, the academy announced April 22.

Founded in 1780, the academy honors exceptional scholars, leaders, artists and innovators, and engages them in sharing knowledge and addressing challenges facing the world.

Barch is chair and professor of the Department of Psychological and Brain Sciences in Arts & Sciences, the Gregory B. Couch Professor of Psychiatry, and professor of radiology at the School of Medicine. Baugh is the Margaret Bush Wilson Professor and professor of psychological and brain sciences, anthropology, education, English, linguistics, and African and African American studies, all in Arts & Sciences. Boyer is the Henry Luce Professor of Collective and Individual Memory as well as professor of sociocultural anthropology and of psychological and brain sciences in Arts & Sciences. Martin’s areas of expertise include judicial politics, quantitative political methodology, empirical legal studies and applied statistics, with attention paid specifically to U.S. Supreme Court decision-making. Thorp is the Rita Levi-Montalcini Distinguished University Professor and former provost. He is on leave from the university, serving as editor-in-chief of the *Science* family of journals.

\$1.9 million



KREUTER RECEIVES \$1.9 MILLION IN GRANTS TO INCREASE VACCINATIONS IN ST. LOUIS

Matthew Kreuter, the Kahn Family Professor of Public Health at the Brown School, has received funding from the CDC as well as NIH’s Community Engagement Alliance (CEAL) Against COVID-19 Disparities to help increase COVID-19 vaccinations among Black residents in St. Louis City and St. Louis County.

“COVID-19 has impacted the Black community in St. Louis unequally in nearly all ways – sickness, death and financial strain,” Kreuter says. “We must do everything possible to avoid the same gaps when it comes to the protection afforded by vaccinations.”

The one-year, \$1.4 million NIH grant, supported by the American Rescue Plan, has a number of partners: the St. Louis City Department of Health; St. Louis County Department of Health; St. Louis COVID-19 Regional Response Team; United Way; Home State Health/Centene; 211; and WashU’s Brown School, School of Medicine and Sam Fox School of Design & Visual Arts.



VOICING RUSSELL IN DISNEY-PIXAR'S *UP*

When he was 7 years old, WashU senior **Jordan Nagai** tagged along with his brother to audition for Russell, a character in the movie *Up*. Nagai spoke about judo in his audition, and out of the 500 hopefuls, his voice stood out.

"As soon as Jordan's voice came on, we were smiling because he is appealing and innocent and cute," says Pete Docter, the film's director.

Russell became one of Pixar's most beloved characters. The young wilderness explorer shows up at Carl Fredrickson's door because he wants to earn an "assist the elderly" badge, and the eager scout ends up stowing away on Carl's flying house. *Up* went on to win an Academy Award for Best Animated Feature.

Although the movie was released more than a decade ago, Nagai (inset photo) found fame among his classmates when he entered WashU. "During freshman and sophomore year, people would come up to me, but I think it's died down a little," Nagai says.

Nagai has no plans to go into acting. Instead he is studying biology and health-care management, and hopes to go to medical school.



UNIVERSITY STARTS NEW AFRICA INITIATIVE

The university's Africa Initiative supports early-stage research projects designed to create new collaborations with African institutions and their faculty. The Institute for Public Health and the McDonnell International Scholars Academy, which are distributing the grants, received an overwhelming response to their call for proposals and had to boost the number of awards offered from three to eight. The eight projects will involve five African countries and cover topics including HIV neurological disorders, savings accounts, immigrants and tropical diseases.



Helping students in need

In 2019, the Brown School started the Bear Bites Food Support Program to serve its food-insecure students. In 2021, the food pantry expanded operations to serve students across the university.

Lila Puziss, AB '21, was one of the students advocating for growing the program. “We talked to people who run [food] pantries at other universities and learned that all other elite private universities of WashU’s caliber ... had food pantries,” Puziss says.

More than 100 students signed up when the expansion was announced. They’re able to pick up bags of food and hygiene products.

Illustration: Bridget McGinn, Class of 2023

NEW PODCASTS OFFER NEW INSIGHTS

Across the university, schools and professors are creating compelling podcasts.

- “On Principle” from Olin Business School has business leaders talk about ah-ha and oh-no moments throughout their careers, while Olin faculty provide research-backed insights. Listen at onprinciplepodcast.com.
- “The American Democracy Lab” from the Gephardt Institute is hosted by **Alan Lambert**, associate professor of psychological and brain sciences. The podcast explores the latest issues in American democracy. Learn more at gephardtinststitute.wustl.edu.
- “Show Me the Science” from the School of Medicine highlights research, teaching and patient care. Since it launched in March 2020, most of the 15-minute episodes have focused on the COVID-19 pandemic. Listen at medicine.wustl.edu/news/type/podcast.

GORDON RECEIVES KOBER MEDAL

Jeffrey I. Gordon, MD, was awarded the George M. Kober Medal from the Association of American Physicians in recognition of his outstanding contributions to the field of gut microbiome research. Gordon is the director of the Edison Family Center for Genome Sciences & Systems Biology at the School of Medicine and is considered a father of the field.



Shantay Bolton, Executive Vice Chancellor for Administration and Chief Administrative Officer



Anna Gonzalez, Vice Chancellor for Student Affairs

NEW APPOINTMENTS ON CAMPUS

Shantay Bolton, former vice president and deputy chief operating officer at Tulane University, is the new executive vice chancellor for administration and chief administrative officer at Washington University. The senior administrative role oversees human resources, information technology, and Danforth Campus operations and facilities.

“I’m incredibly energized to be returning to St. Louis,” says Bolton, who attended Vashon High School. “This is truly a once-in-a-lifetime opportunity to do the work I love in a place that means so much to me.”

Another new face on campus is **Anna Gonzalez**, former vice president for student affairs and dean of students at Harvey Mudd College. She is the new vice chancellor for student affairs, charged with working to enhance the student experience.

“I’m excited to be at Washington University,” Gonzalez says. “Together, I know we will build on the university’s strong foundation of excellence as we help our students become global and impactful leaders of the 21st century.”

Both appointments started July 1.

A term limit would greatly reduce imbalance on the court

Imposing a term limit on U.S. Supreme Court justices could bring significant changes to the nation's highest court, according to researchers. The paper, co-authored by WashU associate professors of law **Daniel Epps** and **Kyle Rozema**, explains that since President Franklin Roosevelt's efforts to pack the court in 1937, the court has had extreme ideological imbalances in 60% of its sessions. Introducing a term limit would have reduced that time with extreme imbalance by half. Their analysis offers a framework for developing a term-limit proposal and an empirical way to assess the impacts of term-limited Supreme Court appointments.



CLINICAL TRIAL TO INVESTIGATE RARE INFLAMMATORY DISORDER IN CHILDREN AND YOUNG ADULTS LINKED TO COVID-19

Washington University pediatric specialists are helping to research the effects of SARS-CoV-2 on children and young adults in a major effort led by the National Institutes of Health. **Charles Canter, MD**, professor of pediatrics and the Lois B. Tuttle and Jeanne B. Hauk Chair in Pediatric Cardiology, will lead the clinical trial at St. Louis Children's Hospital to further investigate the development of a rare inflammatory disorder, MIS-C, linked to COVID-19 in children. The life-threatening condition is marked by severe inflammation in one or more parts of the body, including heart, lungs, kidney and brain.

"The aim of this study is to understand what drives the development of MIS-C and severe COVID-19 in children, so we can identify those who are at risk and determine the best way to treat them," Canter says.

REDUCING OPIOID OVERDOSE WITH BUPRENORPHINE

Washington University School of Medicine researchers have found that the drug buprenorphine is an effective treatment for those who suffer from opioid usage, helping to protect them from overdosing. The study found that the drug can protect patients even when they also take benzodiazepines such as Valium, Xanax and Ativan. **Kevin Xu, MD**, a resident physician in the Department of Psychiatry, and other members of the research team dug into the topic because many treatment centers refuse patients who are addicted to opioids and also take benzodiazepines.

UNDERSTANDING FRACKING'S TOXIC BY-PRODUCTS

Hydraulic fracturing, also known as "fracking," is a method involving the removal of oil or gas from shale by pumping water, sand and other chemicals into the shale. The flowback is full of highly dangerous compounds. But why?

Research from the lab of **Kimberly Parker**, assistant professor in the Department of Energy, Environmental & Chemical Engineering at the McKelvey School of Engineering, has uncovered the underground presence of halogen radicals — molecules with an unpaired electron — a key element in the formation of halogenated organic compounds, which are dangerous for human health and damaging to the environment. Parker's lab is already working on the next steps for reducing the creation of these toxic compounds.

BUILDING A BETTER LITHIUM-ION BATTERY

Peng Bai, assistant professor in the Department of Energy, Environmental & Chemical Engineering at the McKelvey School of Engineering, and **Shubham Agrawal**, a doctoral student in Bai's lab, are investigating the movement of charges in lithium-ion battery electrodes using graphite. After watching the particles move through the battery, Bai and Agrawal are able to calculate the true current density at any spot via image analysis. Through this research, Bai has been able to determine the steps necessary for making a safer battery.



For more on university research and faculty achievement, visit source.wustl.edu/news.

WHO YOU KNOW MATTERS, EVEN WHEN APPLYING FOR PPP LOANS

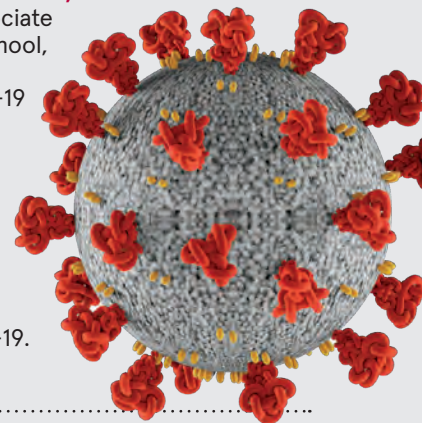
In 2020, as a result of the COVID-19 pandemic, the government offered forgivable bank loans to businesses with less than 500 employees. Called the Paycheck Protection Program, the loans were a lifeline for some businesses. But new research reveals that lenders prioritized PPP loan applications from businesses with previous lending relationships or personal connections to bank executives. The researchers, including **Ximun Martin**, a professor of accounting at Olin Business School, and **Ivy Wang**, an Olin doctoral degree candidate, analyzed public firms and noticed “the conflicts of interest resulting from the design of the Paycheck Protection Program,” Martin says.

STUDY FINDS INCREASE IN MENU PRICES DRIVES DECREASE IN RESTAURANT RATINGS

A price increase of just 1% can lower a restaurant’s online rating by 3%–5%, a recent study shows. **Oren Reshef**, assistant professor of strategy at Olin Business School, and a colleague from Harvard University studied the relationship between price and reputation for restaurant businesses and found a negative relationship. “Our results amplify the negative effect of price on sales: Higher prices reduce both demand today and demand in the long run due to adverse effect on reputation,” Reshef says. “This is especially prominent in online markets, where customers rarely know the prevailing prices and the time when the review was given.”

Helping TRACE COVID-19

A new computational simulation model, TRACE (Testing Responses through Agent-based Computational Epidemiology), is being used to produce sophisticated models for the pandemic. TRACE is a collaborative effort of the university and the Brookings Center on Social Dynamics and Policy. Earlier this year, **Ross Hammond**, the Betty Bofinger Brown Associate Professor at the Brown School, used TRACE to develop a model for how the COVID-19 pandemic could be successfully contained in St. Louis through the summer. He worked with officials from the St. Louis Department of Health to create customized policies and manage the unpredictability of COVID-19.



WANTED: BOARD OF DIRECTORS’ MEMBERS WITH BANKRUPTCY EXPERIENCE

In a new study published in the *Journal of Financial Economics*, researchers found that firms take more risks after a member of their board of directors undergoes a bankruptcy at another firm where the member serves as a director. **Radhakrishnan Gopalan**, professor of finance, and **Todd Gormley**, associate professor of finance, both at Olin Business School, found that firsthand bankruptcy experience causes a board of directors to lower its estimate of distress cost — expenses faced by firms in financial distress beyond the cost of doing business. “Our study highlights the importance of learning and understanding a director’s life experience when making board appointments,” Gopalan says.

SCHOOL CLOSURES ‘SIDELINE’ WORKING MOTHERS

New research, published in *Gender & Society*, reveals a significant increase in the gap between mothers and fathers in the labor force since the onset of the pandemic. By September 2020, the gap between mothers’ and fathers’ labor participation grew from 18 percentage points to over 23 percentage points in states where schools primarily offered remote instruction. In states with in-person instruction, the gap grew by less than 1 percentage point, to 18.4%. **Caitlyn Collins**, assistant professor of sociology in Arts & Sciences and co-author of the study, warns, “The longer these conditions remain in place, the more difficult it may be for mothers to fully recover from prolonged spells of non-employment, resulting in reduced occupational opportunities and, as a consequence, reduced lifetime earnings.”



University starts new program in genetic counseling

Genetic testing has become so commonplace that you can send off a swab to 23andme.com and for \$200 find out your genetic health risks. The problem, aside from the fact that not all genetic testing is accurate, is that genetic test results must be interpreted.

What exactly does it mean if you have the genetic marker that makes you more likely to get late-stage Alzheimer's or early-onset breast cancer? Who in your family should you tell? Should they also get tested? What steps can you take to help prevent a disease you may have markers for?

That's where a genetic counselor comes in.

"Genetic counselors work with patients and discuss genetic information to help them better understand test results and the psychosocial aspects of what's happening," says **Tomi Toler**, associate director of the new Program in Genetic Counseling at Washington University School of Medicine (WUSM), and a genetic counselor herself. "This understanding better informs the patient's medical decisions."

For instance, **Rachael Bradshaw**, a senior genetic counselor and the program's director, works in prenatal genetic counseling. She might meet with a couple whose fetus has been found to have an incurable, life-limiting genetic disease. "It may seem like there aren't a lot of options, but there are," Bradshaw says. "A genetic counselor can provide information and support while also connecting family with other people who understand the disease, such as newborn medicine specialists and palliative care providers. The genetic counselor is part of a team that can help families cope with the likelihood of losing a baby."

Other times, results can impact treatment for a disease such as cancer. "We know that certain regimens are more effective if an individual has a mutation in one of the breast cancer genes," says **Erin Linnenbringer, AB '00**, assistant program director and an assistant professor of surgery in the Division of Public Health Sciences in the Department of Surgery.

Since genetic testing is increasing, the field of genetic counseling is also growing. Before the development of this program, there was no genetic counseling training program in Missouri or even within several hundred miles. Bradshaw, Toler and Linnenbringer were determined to change that.

Toler and Linnenbringer, who met while working at the School of Medicine, wanted to start a program in genetic counseling and reached out for help. Bradshaw, an assistant professor of pediatrics at Saint Louis University, who now has a joint appointment at WUSM, responded. The three counselors also work with **Marwan Shinawi, MD**, a geneticist and the medical director for the genetic counseling program, as well as **Patricia Dickson, MD**, the Centennial Professor in Pediatrics, and **Meagan Corliss**, a genetic clinical counselor, who both serve as course directors.

Planning for the program was intensive. "It took five years of discussions and meetings to develop a curriculum that met our goal of creating an innovative training program grounded in diversity, equity and inclusion," Bradshaw says. The program includes coursework, clinical rotations and a research project, all of which had to be created from scratch.

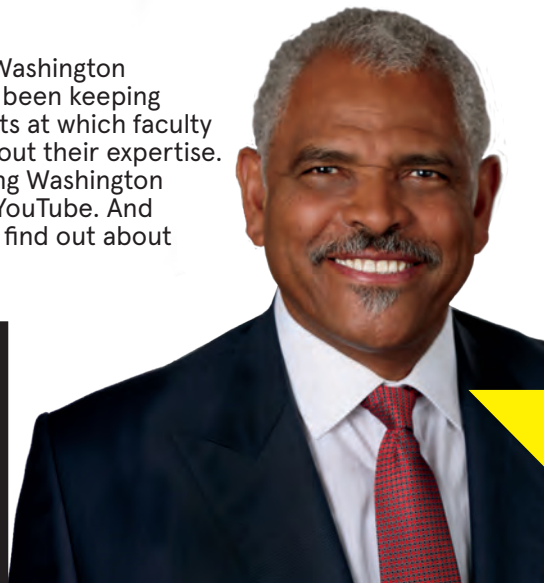
The hard work paid off: In 2020, the new program gained accreditation status, one of only 50 accredited genetic counseling programs in the country through which graduates will be board-eligible. Bradshaw, Toler and Linnenbringer interviewed applicants for the first cohort this spring.

"I'm excited to have this connection to the next generation of genetic counselors," Linnenbringer says.

■ ROSALIND EARLY, AB '03

QUOTED

Since the pandemic started, the Washington University Alumni Association has been keeping alumni connected via virtual events at which faculty and prominent alumni present about their expertise. Check out past videos by searching Washington University Alumni Association on YouTube. And go to alumni.wustl.edu/alumni to find out about upcoming events.



“You have to be able to operate in an uncertain environment with lots of variables and a ton of constraints and stay calm with it.”

ARNOLD DONALD, BS '77, PRESIDENT AND CEO OF CARNIVAL CRUISES, SPOKE ON LEADING DURING THE PANDEMIC IN A “WEDNESDAYS WITH WASHU FEATURING ARNOLD DONALD,” SEPT. 9, 2020.

“The biggest myth [around marriage] is that there’s the one. I’m here to tell you, certainly from my experience on *Married at First Sight*, there’s way more than the one.”

PEPPER SCHWARTZ, AB '67, MA '69, AN ON-AIR RELATIONSHIP EXPERT FOR *MARRIED AT FIRST SIGHT* – A LIFETIME TV SERIES IN ITS 13TH SEASON – TOOK PART IN “A CONVERSATION WITH PEPPER SCHWARTZ,” FEB. 22, 2021.



“Consulting is an amazing career path for people who really want exposure to all things business. At the same time, you work your butt off.”

ALLISON SAMEK, AB '97, PRESIDENT OF FRED SEGAL, SHARED DURING “A CONVERSATION WITH ALLISON SAMEK,” MARCH 18, 2021.



“If we can address St. Louis’ problems, Detroit’s problems, Kansas City’s problems, New Orleans’ problems and Cleveland’s, then I think we really start to turn around the heart of America.”

QUINTON LUCAS, AB '06, IS THE 55TH MAYOR OF KANSAS CITY. HE PARTICIPATED IN “A CONVERSATION WITH THE CITY OF KANSAS CITY, MISSOURI, MAYOR QUINTON LUCAS,” OCT. 14, 2020.

“We saw more calls in a day than we [typically] see on Mother’s Day ... the day we have the most calls in the year. We also had more text messages than we see on New Year’s Day. And we saw that consistently every day in April, May and June [2020]. We’d never seen anything like it.”

HANS VESTBERG, WHO IS A WASHU PARENT AND CHAIRMAN AND CEO OF VERIZON COMMUNICATIONS, SHARED DURING A “WEDNESDAYS WITH WASHU FEATURING HANS VESTBERG,” JAN. 27, 2021.

Course listing: 160 BEYOND 161 Morality and Markets

A novel way to learn business

In the course “Morality and Markets,” students gain new perspectives on real-life business situations through fiction.

Earlier this year, GameStop was the hottest story on, and off, Wall Street when its stock price soared by 1,700% over a short period of time. The once-struggling company’s meteoric rise defied logic. How could amateur investors take on powerful traders and analysts as they had?

The answer is through narrative. Reddit users banded together to invest in GameStop and other struggling companies — not because it was a good investment but because they envisioned themselves as “David” taking on “Goliath” (in this case, Wall Street).

As GameStop’s experience demonstrates, the market does not behave rationally. And individuals aren’t motivated solely by data and facts, dollars and cents. Complex emotions and competing interests come into play. So it makes sense that modern economics should be informed by sociology, psychology, ethics and even literature.

That is precisely what co-instructors **Peter Boumgarden, PhD ’10**, the Koch Professor of Practice for Family Enterprise at Olin Business School, and **Abram Van Engen**, associate professor of English in Arts & Sciences, are doing in their course “Morality and Markets.” They use books, film and television, along with modern psychology and business strategy, to teach students to think critically about living a moral life in the midst of the modern market.

Boumgarden and Van Engen hope their course will prepare future leaders to be more reflective and to think about problems from a number of perspectives. “Narratives give us something beyond an argument or an opinion,” Van Engen says. “The more narratives we come across, the more they reform and inform the narratives we have already come across.”

Boumgarden agrees. “There is quite a bit to be gained by pairing together business and literature,” Boumgarden says. “And, in fact, we need to think about the moral complexity of markets in the world we live in right now.” He

points to the connection between Big Pharma and the opioid crisis. How much responsibility does Big Pharma bear? What about companies profiting from collecting your data? How much of your information is private?

“These are questions that exist at the intersection of technical expertise, philosophy, legality and, to some degree, literature,” Boumgarden says. “And though we [as a business school] can approach these questions in a traditional way — such as a traditional ethics course and a traditional business course — maybe there’s a new way to reach across these boundaries to create something new and distinct, to shape the thinkers of the next generation.”

“Markets and Morality” is offered through WashU’s Beyond Boundaries program, which enables students to explore a variety of topics — including aging, climate change and artificial intelligence — from multiple disciplinary perspectives.

The class included students from Olin, Arts & Sciences and other schools, which provided a unique learning opportunity. “The students bring different perspectives to the problems we face and the solutions to those problems,” Van Engen says. “Of course, Peter and I have our own take on these things, too.”

Learning to understand and respect differing opinions is the most important lesson students can take away from the course. “We want students to imagine alternatives to the answers,” Van Engen says. “We’re not trying to convert them from one position to another, but we want them to understand why others might disagree with them.”

Ultimately, Boumgarden and Van Engen hope the course — through the power of story in an interdisciplinary setting — will inspire their students to respect different viewpoints, while teaching them to think in new ways about markets and morality.

■ SARA SAVAT





LESSONS LEARNED

Class texts offer students an opportunity to consider how they would approach ethical dilemmas and challenge their beliefs and biases.

Go Tell It on the Mountain

James Baldwin's semi-autobiographical novel tells the story of John Grimes, an intelligent teenager in 1930s Harlem, and his relationship with his family and his church. The novel depicts the insidious effects of systemic racism in post-slavery America and opens up questions of market desires and market access.

Red Plenty

Francis Spufford's novel transports readers back to the USSR in the late 1950s, communism's heyday. Students learn about the "planned economy," which was going to gush forth an abundance of good things that the lands of capitalism could never match, and what led to its failure.

The Coquette

Hannah Webster Foster's novel provides a fictionalized account of the death of a socially elite Connecticut woman after giving birth to a stillborn, illegitimate child at a roadside tavern. Foster's character, Eliza Wharton, was one of the first women in American fiction to emerge as a real person facing a dilemma in her life. The novel highlights the many different kinds of markets that exist (including a marriage market) and raises tough questions about the relation between personal responsibility and social constraint.

PRACTITIONERS FROM THE FIELD

Students in the course also hear from industry leaders, such as WashU alum and parent **Rich Ritholz, BSBA '84**, a former equity partner and commodities trader at Elliot Management Company, or WashU parent and founder of Philadelphia-based FS Investments **Michael Forman**, who spoke on the overlap of the market with finance, art and urban development.

An unfinished ending

When **Sayed Kashua** left Israel in 2014, a news crew from the Israeli investigative news show *Fact* documented his departure. Kashua had become one of Israel's most prominent Palestinian voices. His show *Arab Labor*, a comedy about a Palestinian trying to fit into Jewish Israeli society, was the first show in Arabic to air on Israeli primetime television. He'd also, by then, written three books: *Dancing Arabs*, *Let It Be Morning* and *Second Person Singular*.

Written in Hebrew, the books explore the cultural identity of being Palestinian in Israel. Kashua believed that through culture he could make Israelis and Arabs understand one another better. But by 2014, the ideal was shattered after three teenage Jewish boys were killed while hitching a ride in a settlement south of Jerusalem. In retaliation, some Israelis burned an Arab teenager alive.

Kashua, who had been invited to the University of Illinois at Urbana-Champaign for a year, moved up his flight to the U.S. and left suddenly with his family, desiring never to return.

Track Changes, Kashua's latest novel, deals with the aftermath of these decisions. Like all of his novels, it has autobiographical elements. The narrator, Saeed, was born in Tira, Israel, just like Kashua. He lives in Champaign, Illinois, and is married with three kids, like Kashua.

"It's autobiographical with nothing really autobiographical in it," Kashua says. "I was trying to be as faithful to my feelings as possible."

In the novel, Saeed left his family and town in ignominy and is returning after 14 years because his father is dying. He visits his father in the hospital, hoping to record his memories. Saeed has written many people's stories as keepsakes for their families, but he occasionally replaces his subject's memories with more pleasant ones — often his own. The storytellers then believe these are their memories. Meanwhile, Saeed is forgetting his own past.

This makes Saeed unreliable. "Is he rewriting the story while recording his father?" Kashua asks. "What is true and what is not?" Readers can see some of what is being rewritten in the story: Scenes, thoughts and sentences are crossed out.



Kashua lost his own father suddenly in 2015. "Something screwed up in my head," Kashua disclosed to the *New Yorker*. He started working on *Track Changes* a little while later to explore emigration, loss, memory and narrative.

While writing *Track Changes*, Kashua was invited to give a talk at WashU. During his visit, **Lynne Tatlock**, director of comparative literature and the Hortense and Tobias Lewin Distinguished Professor in the Humanities, told him about the PhD track in comparative literature for international writers.

(The doctoral program has several prominent writers; see pg. 17 at bottom for a few recent books.)

"I always felt a little bit bad that I hadn't finish my studies," says Kashua, who became a journalist after earning a bachelor's degree in Israel. So he decided to join the comp lit program.

While earning his doctorate, Kashua is also focusing on TV writing. He wrapped up his Israeli show, *The Writer*. Now he writes for *Shtisel* on Netflix and is working on other shows as well, including a pilot for Sony Pictures.

Kashua is also moving in a different direction with his literature. He views his previous novels as part of a series that ended with *Track Changes*, even though *Track Changes* itself is incomplete.

"It's a finished book, but it's a story that's not finished," Kashua says. "So the reader can see how you edit memories, how you create new narratives and how you write your own."

■ ROSALIND EARLY, AB '03

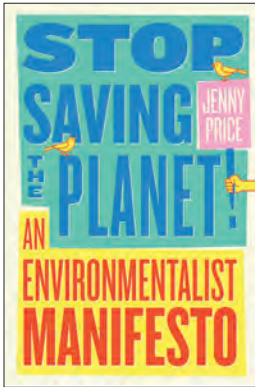
FACULTY



The Passion Projects: Modernist Women, Intimate Archives, Unfinished Lives

MELANIE MICIR, ASSOCIATE PROFESSOR OF ENGLISH

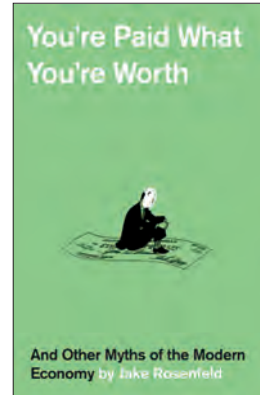
Virginia Woolf's *Orlando* was a tongue-in-cheek biography of her friend and lover Vita Sackville-West. Woolf was one of many modernist female writers who wrote about a friend, colleague or lover to give her a place in literary history. In *The Passion Projects*, Micir examines these efforts.



Stop Saving the Planet! An Environmentalist Manifesto

JENNY PRICE, RESEARCH FELLOW AT THE SAM FOX SCHOOL OF DESIGN & VISUAL ARTS

After decades of trying to “save the planet,” the environmental crisis is worse than ever, and Jenny Price is sick of it. In this funny and fierce manifesto, she explains how to actually fix the environmental crisis in a way that is more fair and more equitable, with a whole lot less virtue signaling.

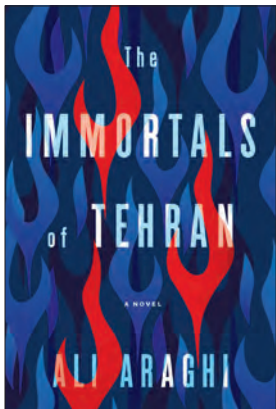


You're Paid What You're Worth: And Other Myths of the Modern Economy

JAKE ROSENFELD, ASSOCIATE PROFESSOR OF SOCIOLOGY

It may appear that salaries are determined by the impersonal market, but judgments about labor are actually highly subjective, Jake Rosenfeld argues in his latest book. Why are CEOs paid at such incredible rates? What makes a lawyer's labor more valuable than a teacher's? According to Rosenfeld, we need to once again leverage organized labor to fight for greater income equality.

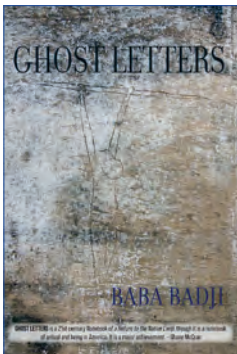
INTERNATIONAL WRITERS TRACK AUTHORS



The Immortals of Tehran

ALI ARAGHI

According to his great-great-great-grandfather's stories, Ahmad Torkash-Vand's family is under a centuries-old curse. As Ahmad gets older, he senses that there are complications in his family as they suffer through loss, famines and political turmoil in Iran. What he doesn't realize is how his complicated life is pulling him inexorably toward the center of Iran's revolution.



Ghost Letters

BABA BADJI, PHD '21

Baba Badji is a Senegalese American poet. *Ghost Letters* is a collection of his epistolary poems that incorporate French, the official language of Senegal, and Wolof, the predominant language, into the mostly English poems. “I am trying to recover from stings poisoning my tongue,” Badji writes. “I am trying to recover from a disease whitening my black skin.”



The Masochist

**KATJA PERAT
TRANSLATED BY MICHAEL BIGGINS**

Beginning in 1874 in the present-day Ukraine, Katja Perat's novel takes readers through the Hapsburg Empire at the fin de siècle. The heroine, Nada, meets cultural luminaries but is frustrated by the blindness of the era. “By bringing to life the ideas that underpin much of 20th-century thought, Perat helps us see their essential, grandiose deafness,” writes Tom Conaghan in the *LA Review of Books*.



Photo: Danny Reise

Michal Grinstein-Weiss: COVID-19's economic impact

"After the rains, poets may sing of rain-pearled lotus flowers and double rainbows; among the poor families if the adults fell ill, the whole family would starve. ... The rain falls on the rich and the poor alike, it falls on the righteous and the unrighteous alike. But actually, the rain is not just at all, because it falls onto a world where there is no justice."

- Lao She, "Camel Xiangzi," 1937

The SARS-CoV-2 virus does not distinguish people's skin color, educational attainments or the dollar amounts in their bank accounts. But, just as Lao She wrote almost 100 years ago, the virus fell onto an unequal world.

From the outbreak of the pandemic to now, the Social Policy Institute at Washington University (SPI) has administered a series of nationally representative surveys to explore the socioeconomic impacts of the pandemic on U.S. families. Through the survey series, we learned that

- During the early stage of the pandemic, respondents of color were more vulnerable to the pandemic's impacts than whites.
- As the pandemic prolonged, white households began to experience heightened material hardships, making the overall impact for everyone more widespread.

EMPLOYMENT (2020)

At the early stage of the pandemic (May 2020), the impact on employment was relatively equal across racial/ethnic groups. Despite subtle disparities, the pandemic almost doubled the unemployment rates (either temporal or permanent) across racial/ethnic groups. The trends that followed, however, are striking. The unemployment rates of white respondents kept decreasing as the pandemic prolonged. In November, white respondents' unemployment rate was almost back to the pre-pandemic level (10% in the pre-pandemic; 12% in November). Conversely, Black respondents experienced the highest unemployment rate in August (22%). The unemployment rate trends reveal that white employees were less affected by the pandemic shock than Blacks or Hispanics (the other two groups included in the study).

The varying resiliencies could be associated with job quality. Just prior to the pandemic, the Center for American Progress reported that "Black workers have fewer well-paying, stable jobs with decent benefits than white workers."

FINANCIAL AND MATERIAL HARDSHIPS

As the pandemic hit the U.S. job market, it negatively and disproportionately affected U.S. families' household finances. To measure asset

liquidity, we asked if survey respondents could afford to pay \$400 for an emergency expense. The rate of the respondents who answered "no" kept increasing throughout the pandemic. Respondents of color have always exhibited higher, therefore worse, rates of lack of asset liquidity.

A recent study by SPI researchers empirically examines whether the pre-pandemic rate of asset liquidity can explain the disproportionate foreclosure/eviction risks between whites and Blacks. In August 2020, the peak of pandemic hardship experience,

- Black (9%) and Hispanic (11%) respondents were **twice as likely to be evicted/foreclosed** on than white respondents (5%).
- Black (31%) and Hispanic (32%) respondents were almost **1.5 times** more likely to **experience food insecurity** than whites (22%).

The material hardship gaps across the racial/ethnic groups reduced in November but not because inequity issues had been resolved. Though Black and Hispanic respondents' hardship levels subtly decreased in November, the driving factor of the smaller gap is white respondents' rapidly increasing hardship level. In November, 44% of white respondents reported that their savings would last less than three months if their spending levels remained the same, compared to reports by Blacks (50%) and Hispanics (49%).

CONCLUSION

Whether Hurricane Katrina in 2005 or the housing market bubble burst a few years later, natural and economic crises have explicitly unveiled structural problems that have been hidden or neglected. As other crises did, the COVID-19 pandemic magnified racial (in) justice issues that our society had only subtly acknowledged before the pandemic. The COVID-19 virus initially hit everyone, regardless of race, ethnicity or bank account balance; however, the socioeconomic status of Black and Hispanic households was hit the hardest when the pandemic began. Now, as the pandemic is prolonged, we are observing that the damages are more widespread.

■ MICHAL GRINSTEIN-WEISS

WHO

Michal Grinstein-Weiss

TITLE

The Shanti K. Khinduka Distinguished Professor in the Brown School and director of the Social Policy Institute

EXPERTISE

Improving health and socioeconomic mobility for low-income families

SHEEPSKIN

PhD in social work from Washington University; MA in economics from University of Missouri-St. Louis; MSW and BA from Haifa University, Israel

IN SEARCH OF REFUGE

RESEARCHERS LOOK AT WHETHER OZARK OASES
AT TYSON RESEARCH CENTER – CLIMATE CHANGE
REFUGIA – COULD HELP SPECIES PERSIST
IN SPITE OF RISING TEMPERATURES.

■ BY TALIA OGLIORE



Photo: Thomas Malkowicz

LEGEND HAS IT THAT NOTORIOUS OUTLAW JESSE JAMES HAD A SECRET HIDEOUT IN MERAMEC CAVERNS WHERE HE EVADED CAPTURE FOR YEARS. Could the same sort of strategy work for rare plants: using parts of the Ozarks as refuge from the pressures of climate change?

Certain habitats might indeed act as safe harbors under future climate scenarios. Areas like sheltered coves, north-facing bluffs and slopes, and valleys could preserve cooler temperatures or other favorable conditions for plants, even as surrounding areas become warmer or drier. Scientists call these places climate change refugia — or even climate change *microrefugia*, if they're particularly small.

Researchers have built models that can help predict the most likely locations of climate change refugia in a given geographic area. Unfortunately, the climate and weather data needed for these models is typically available only at a fairly coarse spatial resolution — like at half-mile scale, or even larger. Without better weather data, today's models are of limited use to ecologists and conservationists.

But fine-scale climate data can help make the picture clearer.

With support from the Living Earth Collaborative at Washington University, researchers from the Missouri Botanical Garden and Washington University are collecting data to develop a high-resolution temperature map of Tyson Research Center, the university's environmental field station near Eureka, Missouri. The map will be paired with surveys of plant species and used to identify local landscape features that might be able to buffer changes in the macroclimate of the surrounding region.

"This effort will help us identify the small places — the refugia — where plants might persist" under climate change, says Adam B. Smith, associate scientist with the Missouri Botanical Garden and a principal investigator for the project. "We can draw conclusions from what we find at Tyson and apply them more generally to places in the Ozarks and similar locations.

"Tyson is fairly hilly, which provides potential opportunities for refugia. There's plenty of streams, larger or smaller — and that might be important," Smith says. "The forest that we see is certainly representative of an important ecosystem in the northern part of the Ozarks. And even though the adult trees themselves might be experiencing hotter temperatures, they provide a cooling effect, which could potentially help plants under them to persist."

The climate change refugia project is a welcome new line of inquiry at Tyson, long a site of interdisciplinary research between departments at Washington University and various institutions in the region and beyond.



Tyson Research Center director Kim Medley, an ecologist and expert on mosquitoes and ticks, is a co-investigator on the climate change refugia project, collaborating with colleagues from Washington University and the Missouri Botanical Garden.

“The more data we have, the more we know about the site,” says Kim Medley, director of the Tyson Research Center and a co-investigator for the climate change refugia project, “and the more that knowledge can feed into new research that asks completely different questions.”

Tyson Research Center is one of a handful of field stations supported by colleges and other institutions in the Ozarks region. Among these field stations, Tyson is likely the most productive in terms of the number of research investigators actively working on site and the breadth of topics being explored. The Tyson leadership team also places a great deal of focus on collaborative research.

The climate change refugia project is a prime example of such collaboration. Since 2018, seed grants from the Living Earth Collaborative have helped spark new conservation connections for biodiversity-focused projects led by St. Louis-area researchers — many of which have been realized at Tyson.

Located 20 miles southwest of the Danforth Campus, just off I-44, Tyson Research Center is a 2,000-acre forest wonderland at the northern edge of the Missouri Ozark region.

As private property, Tyson protects natural resources for research and education purposes. And more than 4,000 acres of natural areas surrounding Tyson — Castlewood State Park is a neighbor, across the Meramec River, as well as other nearby state conservation areas — help cushion it from encroachment by suburban development in the metro Saint Louis area.

But it wasn’t always this way. While many field stations double as biological preserves, Tyson has a storied history of land use and is not pristine by any measure.

Most of the Ozarks was clear-cut for pine and oak timber between 1890 and 1910. Local forests grew back rapidly. But WashU biologists believe that the land around Tyson used to be much more open, and contained fewer trees, prior to logging activity in the early 1900s.

A limestone quarry known as the Mincke Hollow Quarry operated between 1877 and 1927 near the area where Tyson now stands. Old foundations of houses and a spring box at the Mincke Spring are the only obvious traces of the small company town once occupied by the men who worked in the quarry and their families.

But perhaps the most dramatic use of what is now Tyson occurred during World War II. That’s when the federal government used eminent domain to acquire the land for storing munitions and explosives.

The government constructed 65 bunkers that were camouflaged into Tyson’s hillsides, as well as various buildings, roads and the facility’s permanent fence. Cleaned up after military operations subsided, the property operated briefly as a county park from 1950 to 1951, but it was once again sequestered for government use during the Korean War.

The university obtained Tyson as surplus property from the federal government in 1963.

“In Tyson’s early days, there were fewer faculty researchers and more youth visiting Tyson, primarily through the Science Outreach Program,” Medley says. Projects focused on lizards and reptiles, the local deer population

and hydrogeology. “Faculty and their lab members would come to Tyson for field work and leave, likely without seeing one another.”

Today, Tyson is an important Ozarks field station, but it’s also so much more. It’s a microcosm of Washington University, where researchers with different types of expertise and at different stages of their careers convene to study issues from a variety of perspectives.

“With the programmatic support from students working under the Tyson Environmental Research Apprenticeship and undergraduate fellowships, principal investigators are able to ask much larger questions, with more ambitious projects,” Medley says. Large-scale and long-term experimental plots have become an essential part of Tyson’s research mix, examining forest diversity and fire, tick-borne disease and wildlife, and other important topics including the impacts of human-induced climate change.

“As a plant biologist myself, I know that conducting robust research in the field is essential to understanding the world around us,” says Feng Sheng Hu, dean of the faculty of Arts & Sciences, the Lucille P. Markey Distinguished Professor, and professor of biology and of earth and planetary sciences. “Tyson is an invaluable resource for our campus and the greater St. Louis community, providing rich, collaborative field opportunities for both scientists and students. Their work toward understanding long-term ecosystem dynamics in relation to climate change is critical.”

Which brings us back to Jesse James.

Why hide out in the Ozarks? It’s a smart move for plants, it turns out. The climate of the Ozarks has not warmed very much over the past 100 years, even as surrounding areas got warmer.

Scientists have puzzled over this Ozarks “warming hole.” Some believe it is due to a chance convergence of weather patterns. Others suggest that the dense local forests that re-established themselves after clear-cutting in the early 1900s may have protected the Ozarks from temperature change — at least for now.

“The Ozarks are now much more forested than they’ve ever been,” Smith says. “Before European settlement, they were probably more like a savannah, with sporadic trees among long expanses of grass.” Fire likely played an important role in creating and maintaining these open plant communities.

But while temperatures haven’t warmed much, rainfall patterns are definitely changing. “Rainfall has increased over the past 100 years in the Ozarks by about 10%, compared to what it initially was,” Smith says. “So things are indeed getting wetter.”

The Corps of Engineers has noticed, as have local (human) residents, who have faced more frequent flooding brought on by sudden bouts of intense rainfall. The Great Flood of 1993 was a wake-up call for many, but not enough has been done to anticipate coming changes.



Photo: Thomas Malkowicz

Adam B. Smith, associate scientist at the Missouri Botanical Garden, is also a principal investigator on the climate change refugia project. Researchers on the project are hoping to draw conclusions from what they find at Tyson and apply them more generally to places in the Ozarks and similar locations.

“Missouri generally gets a D or an F grade on preparedness for climate change,” Smith says. “Part of the reason is that compared to some other places, we’ve invested very little in assessing vulnerability to climate change. This lack of attention includes examining how the Ozarks would respond.”

Plants and animals have few choices in the face of climate change. Some animals can change their behavior to adjust to new conditions: For example, a lizard can seek more shade on a hotter day. As a second option, both plants and animals can relocate; that is, literally, they can seek a new home where the habitat is more like the one they once knew. Plants do this by dispersing seeds that grow into new plants somewhere else. Or plants and animals can evolve. But this third option can take some time, and many species don’t have time to spare.

“Overall, the species that are patchy or rare will likely be at most risk,” Medley says. “I am also concerned about climate change making more opportunities for non-native species to gain a foothold and spread under the novel and rapidly changing conditions that are likely in our future.” About one-third of all plants known to exist in Missouri are non-natives.

“The climate change refugia project provides insights into why plant species might migrate, persist or go extinct locally or globally in response to climate change,” says Jonathan Myers, associate professor of biology in Arts & Sciences and a co-investigator on the climate change refugia project.

Myers is also the principal investigator for the Tyson Forest Dynamics Plot, which is part of the Smithsonian Forest Global Earth Observatory (ForestGEO), a coordinated network of 72 forest-ecology plots spanning 27 countries. Together with these collaborators

from around the world, Myers is using data from Tyson to explore a wide range of questions, including how and why global environmental change — including climate change, drought, fire and invasive species — alters plant populations, communities and forest ecosystems.

“In the ForestGEO plot, we monitor changes in the abundances, geographic distributions and performance (growth, survival and reproduction) of more than 32,000 individual stems of 40 co-occurring species of trees and shrubs over time,” Myers says. “By integrating these existing data on forest dynamics with data from the climate change refugia project, we can begin to answer questions about the relative roles of abiotic and biotic factors in determining plant responses to climate change.

“In addition, long-term studies of plant performance in climate change refugia can help identify which life stages of a given plant species — from seed reproduction and seed germination to seedling establishment and adult survival — are most impacted by climate change.”

Jonathan Myers (left), associate professor of biology in Arts & Sciences, serves as principal investigator for the Tyson Forest Dynamics Plot and as a co-investigator on the climate change refugia project. “The climate change refugia project provides insights into why plant species might migrate, persist or go extinct locally or globally in response to climate change,” he says.

Ecologist Stephen Murphy helped plan the sampling design and protocols for the field portion of the climate change refugia effort.

“A common problem is that climate data are available only at relatively coarse spatial resolutions, say, larger than a kilometer squared,” says Murphy, co-investigator of the climate change refugia project and a postdoctoral fellow at Ohio State University. “When developing maps of species distributions and predicting range shifts due to climate change, it is difficult to make inferences below this scale, since we don’t have relevant data to use.



Photo: Thomas Malkowicz



Photo: Thomas Malkowicz

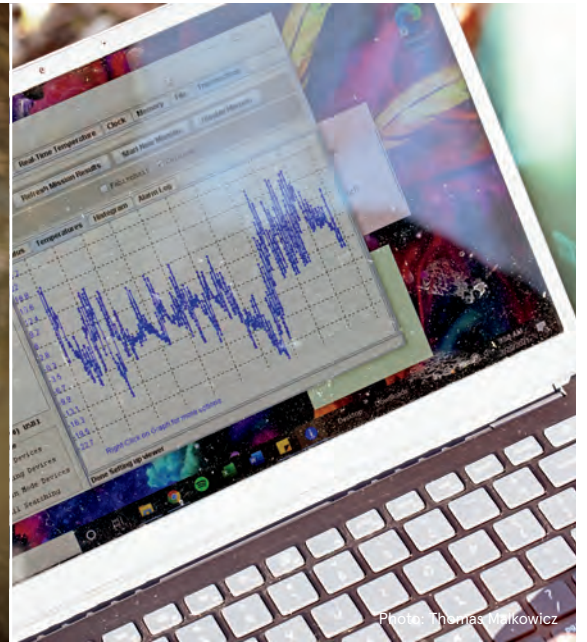


Photo: Thomas Malkowicz

“So we decided to collect our own climate data using dataloggers that we deployed at Tyson,” he says. “These dataloggers, when placed in areas where species are sampled, allow us to more accurately describe the true climate environment that a species experiences.”

For a plant on the forest floor at Tyson, that might mean the actual temperature and precipitation conditions 10 inches above the ground, under the shade of a mature hickory tree, within 10 feet of a small running stream — instead of a National Weather Service estimate based on weather station data collected 20 miles away.

Murphy developed a clever and inexpensive way to shield the basic dataloggers using stacks of Frisbees. With the help of field technicians Katie Skinker and Allegra Pierce, the researchers deployed 35 dataloggers for the first field season and then redeployed the set to gather information in new areas of the Tyson facility.

“By sampling species within plots in the field and recording climate information with dataloggers installed within these plots, we hope to be able to develop better and finer-scale models that can help us predict species responses to climate change,” Murphy says. “We’re hoping that these data will provide us with the ability to better understand how plant species — especially trees and shrubs — respond to climate change at highly local scales.”

The researchers also want to determine whether the information obtained from the traditional coarse-scale models can tell them anything about local-scale responses to climate. Although this is implied from these models, no one has actually tested it.

“Because we now have the climate and species data at both small and large scales, we can directly quantify the degree to which the coarse-scale models can accurately predict local-scale responses,” Murphy says.

The climate change refugia project at Tyson Research Center is still in progress.

The researchers collected data during the pandemic year of 2020. After one final spring and summer of field work in 2021, the scientists are now finalizing their maps and analyses.

“In terms of utility, this is not a project that is necessarily confined to the sites where the data are collected,” Medley says. “Its intent is to understand how to better predict — at these fine scales — the patterns at broader spatial scales, even outside of Tyson.”

It’s too early to draw conclusions, but Smith says: “In comparison to other types of forests, the ones here are likely to be more resilient, especially because some of the rarer habitats are already pre-adapted to hotter, drier conditions. I’m thinking especially of glades, which are shallow-soiled prairies that harbor a lot of rare species both here and in Tennessee.”

He anticipates that many species would want to move northward as temperatures rise, if they could. “Unfortunately, north of the Ozarks, one runs into what is essentially a corn ‘desert’ with lots of unnatural habitat that runs for hundreds of miles. It would be very difficult for species to traverse that — whether by foot, wing or seed.

“As for future climate scenarios, the greatest uncertainty is what humans do,” Smith says. “In the near term, the biggest unknown lies in how much, or if, humans reduce greenhouse gas emissions. Human behavior is always the component of natural systems that is hardest to predict — and we are part of natural systems.”

Above: Researchers built special dataloggers to collect their own climate data at smaller scale — data that more accurately describes the true climate environment that a species experiences. “Climate-buffering effects of local topography can be incorporated into models to improve predictions of how biodiversity — and human ecosystem services that depend on biodiversity — might change in the future,” says WashU’s Jonathan Myers.





Q: What is a climate change refugia?

A: A habitat that could preserve cooler temperatures or other favorable conditions for animals and plants, even as surrounding areas become warmer or drier. Examples include sheltered coves, north-facing bluffs and slopes, and valleys. A team of scientists is mapping potential climate change refuges at Tyson Research Center, WashU's environmental field station. Pictured clockwise from top left, all at Tyson, are a butterfly on a beebalm flower, a box turtle, the rare three birds orchid, a halictid bee on a coreopsis flower, a gray tree frog. (Photos: pg. 26 by Jonathan A. Myers; pg. 27 top by Thomas Malkowicz and bottom by Erin O'Connell)



Go to magazine.wustl.edu for a video by Thomas Malkowicz on the climate change refugia project at Tyson.

**EMANUEL
BARCENAS**
Finance, Olin Business School



**MACKENZIE
HINES-WILSON**
Philosophy-Neuroscience-
Psychology, Arts & Sciences



**DENYE
MICKENS**
Sociology, Arts & Sciences



**JALIECE
RIVERS**
Marketing, Olin Business School



**MERIS
SARIC**
Political Science, Arts & Sciences



**TABITHA
SMITH**
Psychology, Arts & Sciences



PREP SQUAD
READY FOR COLLEGE, READY FOR THE WORLD



In 2014, Washington University began the College Prep Program to help talented St. Louis students with limited financial resources thrive in college. Six members of the first cohort just graduated from WashU.

■ BY DIANE TOROIAN KEAGGY, AB '90

Meris Saric was leaning back in his chair at Gateway STEM High School when he started to tumble backward. He reached for the wall, but it was too late.

“As I was falling, I ripped the brochure for the College Prep Program off the bulletin board,” Saric recalls. “My teacher said, ‘Well, I guess you have to apply.’”

Meanwhile, Marquise Butcher, a student at Central Visual and Performing Arts High School, asked his mom to grab his math book from his book bag. Instead she pulled out the same brochure.

“She asked me, ‘Did you read this? Do you realize what an opportunity this is?’” Butcher says.

And across town at Hazelwood West High School, Tabitha Smith learned about the program from her friend. The friend wasn’t interested, but Smith sure was.

“I was like, ‘Dang, this sounds great,’” Smith says.

The year was 2014, and Washington University in St. Louis had just launched the College Prep Program, an innovative effort to help talented first-generation St. Louis students with limited financial resources get to and through college, at no cost to them and their families. Looking back, graduates of the first cohort say the program changed their lives in ways they never imagined, introducing them to new people, new disciplines, new skills and — most of all — new possibilities.

“The College Prep Program opened up my world,” says Saric, one of six members of the inaugural cohort to graduate from Washington University in May. “I won’t say it made college easy because college is hard. But it did teach me how to take on the challenges and make the most of the opportunities.”

Currently, Washington University accepts 50 rising high school sophomores every year to join the three-year program. But the program started small: 26 students from across the region. Nominated by an educational, civic or religious leader, the accepted students demonstrated a passion for learning and a willingness to work hard. Many had never been away from their parents or visited a college campus when they moved onto the South 40.

“We didn’t know each other or what to expect because we were the first,” Smith recalls. “I think that’s why we became so close so quickly. And some shared things for the first time, such as

when teachers had told them, ‘You’re not going to succeed.’ We accepted each other, and we felt accepted.”

For three summers, the students lived in South 40 residence halls and took classes for college credit from Washington University professors. They dissected a sheep’s brain in a biology lab, built prototypes in a design thinking seminar and wrote essays about great collaborations in science and music history. They also attended spoken word performances, practiced yoga and stayed up late in the residence halls, engaging in the kinds of conversations and debates that can make college so transformative.

By living the life of a college student, they mastered important skills: how to manage their time, communicate with faculty and leverage resources commonly found on college campuses like writing centers and subject libraries. They also discovered more about themselves: how to build strong relationships with people of different backgrounds and beliefs, explore new career interests and care for their mental and physical health.

The learning continued throughout the school year, too. Students reunited on campus to prep for the ACT, perfect their college essays and complete their financial aid forms.

Along the way, they were supported by graduate fellows, most of whom were Brown School students, and met experts from essential campus departments, including Student Financial Services, the Habif Health and Wellness Center, University Libraries, the Career Center, Office of the Provost and the Division of Student Affairs.

“Our vision from the start was to support the whole student throughout their high school careers,” says Courtney E. Brewster, director of the College Prep Program. “And we’ve done that. With the help of our campus partners, we have created a welcoming community of scholars — a place where students are supported and inspired, not just challenged academically.”

The program was initiated by then-Chancellor Mark S. Wrighton, who wanted to help address the yawning disparities in college completion in the St. Louis region. Currently, about 36% of the region’s adults hold a degree, better than the national average of 32%. But a closer look reveals only 16% of the lowest-income students complete



Above: Looking back, graduates of the first cohort say the College Prep Program changed their lives in ways they never imagined, introducing them to new people, new disciplines, new skills and — most of all — new possibilities.

a degree compared with 62% of those from the wealthiest families. The hurdles are many, and no program can dismantle them all. But Brewster and Leah Merrifield, the program’s now-retired founding director, knew students could learn the skills needed to overcome these obstacles.

“By providing comprehensive support and resources over a sustained period of time, we’ve been able to help students in our own backyard achieve their goals,” Brewster says. “This work benefits not only the scholars; it also serves their families and communities. The College Prep Program is truly an example of Washington University being ‘in St. Louis, for St. Louis.’”

So far, 173 student-scholars have graduated from the program. Most are currently in college, including 28 who continued their educations at Washington University through the new WashU Pledge, which provides a free undergraduate education to admitted students from Missouri and Southern Illinois whose families make less than \$75,000 a year. Previously admitted scholars attended Washington University through the College Prep Scholarship.

Still, the transition from College Prep Scholar to Washington University first-year student wasn’t always easy, says Mackenzie Hines-Wilson, who graduated with a degree in philosophy-neuroscience-psychology. She says she felt isolated in her large pre-med classes until she found her people.

“Here I was with all of these really smart students who didn’t look like me,” Hines-Wilson says. “The impostor syndrome started to take over. But College Prep taught me the importance of surrounding myself with people who understand me and support me. That made a big difference.”

For Saric, academics were a struggle, especially his introductory classics course taught by Grizelda McClelland, assistant dean in Arts & Sciences. He knew the university offered peer tutoring through the Center for Teaching and Learning and Deneb STARS, a cohort program for low-income and first-generation students. Still, he resisted.

“I wanted to present myself as someone who could do it by himself,” says Saric, who majored in political science. “But Dean McClelland stressed that I couldn’t be afraid to ask for help when I needed it. I didn’t get an A in her class, but I was proud of my grade. And I re-learned the No. 1 thing the College Prep Program taught us: Ask for help.”

Emanuel Barcenas also suffered a crisis of confidence when he realized medical school was not for him. Like many College Prep alums, he turned to Brewster, a.k.a. Ms. Courtney, for advice.

“It took a while to figure out the right path, and Ms. Courtney really helped me with that process,” says Barcenas, who plans to attend law school. “We already had that bond, so she knew the person I was and the person I wanted to become.”

Many College Prep graduates return to the program as staff, developing programs, speaking at panels and wrangling young scholars as they move from activity to activity. It’s harder work than many expect (“It’s scary when you count all your kids, and you’re one short because someone went to the bathroom without telling you,” Smith says.), but also rewarding. Hines-Wilson served as program assistant for three years, tutoring a scholar in pre-calculus, leading educational programs and organizing an event about mental health and mindfulness.

“As a scholar, it was so nice to have a community that wanted to see me succeed and had faith in me,” Hines-Wilson says. “The program is like a family, and like all good families we want the best for each other — no matter what comes next.”



EMANUEL BARCENAS

→FINANCE | OLIN BUSINESS SCHOOL

Emanuel Barcenas switched majors four times at Washington University, but he never changed his dream: to serve undocumented families like his own.

“I know firsthand all the obstacles families face,” says Barcenas, a Rodriguez Scholar. “My time at WashU helped me discover how I can make the biggest impact to help my community.”

Barcenas’ family immigrated to St. Louis from Mexico when Barcenas was 5. A decade later, his father traveled to Mexico to care for his dying mother. Barcenas has not seen him since.

“He can’t come back here, and I can’t go there,” says Barcenas, who is protected from deportation by the Deferred Action for Childhood Arrivals (DACA) policy. “There are no good solutions. It’s been difficult for all of us.”

After studying philosophy-neuroscience-psychology, then psychology, then political science, Barcenas transferred to Olin Business School, earning a degree in finance. He now lives in Madison, Wisconsin, where he works at Epic, a medical software company.

Ultimately, Barcenas plans to attend law school and start a nonprofit like the Migrant and Immigrant Community Action Project (MICA Project), where he interned as an undergraduate. There he supported the organization’s efforts to provide legal assistance, host education programs and advocate for immigrant and refugee rights.

“Their attorneys are making such a big impact,” Barcenas says. “You can’t navigate the immigration process alone; you need attorneys who truly care about the community. I can be that resource.”

MACKENZIE HINES-WILSON

→PHILOSOPHY-NEUROSCIENCE-PSYCHOLOGY
| ARTS & SCIENCES

Mackenzie Hines-Wilson arrived at WashU with the compassion and curiosity required to be a good clinician. She left with the skills and experience to be a great researcher as well.

As an undergraduate, Hines-Wilson assisted a number of university researchers, including Chelsey Carter, MA ’17, PhD ’21 (anthropology), MPH ’21, who is studying Black people with neuromuscular diseases like amyotrophic lateral sclerosis (ALS); and Lori Markson, associate professor of psychological and brain sciences, who is investigating how children think, reason and learn. In addition, Hines-Wilson participated in the Institute for Public Health summer research program in aging and neurological diseases, and shadowed Eric J. Lenze, MD, the Wallace and Lucille K. Renard Professor of Psychiatry and an expert in geriatric psychiatry.

Those experiences led her to the Marcus Autism Center at Emory University School of Medicine where she is conducting research and gaining clinical experience as the Donald J. Cohen Developmental Social Neuroscience Fellow. Ultimately, Hines-Wilson plans to earn an MD/Master of Public Health in psychiatry or neuroscience.

“WashU gave me the chance to explore all my passions and to discover new interests,” says Hines-Wilson, who was both a Civic and an Ervin Scholar. “I’ve learned so much about the pediatric and geriatric populations. They are so different, but they’re both experiencing transformative periods of life.”

Hines-Wilson also was a lead coordinator for S.A.R.A.H. (Sexual Assault and Rape Anonymous Helpline) and a residential advisor, helping sophomores navigate what she calls “the forgotten year.”

“Those experiences taught me a lot, such as how to be an active listener and how to validate the other person’s experiences,” Hines-Wilson says. “Those are transferable skills I’ll use for the rest of my life.”

DENYE MICKENS

→SOCIOLOGY | ARTS & SCIENCES

After the death of a beloved aunt to sudden cardiac arrest, Denye Mickens decided she would be a heart doctor. Still in high school, Mickens joined the lab of Jeanne M. Nerbonne, professor of medicine, studying the relationship between proteins and cardiac function. The research fascinated Mickens as did her pre-med classes in molecular biology and neuroscience.

But they didn't fully answer the question that had haunted her for years: Why had so many loved ones succumbed to illness and disease?

"I started to realize the answers go beyond proteins and basic biology and science," Mickens says. "Health outcomes also are a result of inequities. Race, economic status, where someone lives — all those things play a role in a way I didn't fully understand."

Mickens changed her major to sociology. "If it seems like sociology and medicine don't go together, I promise you, they do," Mickens says. She then joined the Washington University Neonatal Development Research (WUNDER) Lab, which investigates early brain development, including the social and environmental factors that may cause developmental delays. Mickens still plans to attend medical school, but she also wants to earn a master's degree in public health.

"It's been wonderful to have these two different types of research," says Mickens, who was also a member of the Ervin Scholars Program, a residential advisor and the student speaker at the 2020 virtual Convocation ceremony. "Both are important, but, for me, public health research is really fulfilling. The COVID-19 pandemic has made it all too clear that good public health practices and policies are vital for our nation and our world."



JALIECE RIVERS

→MARKETING | OLIN BUSINESS SCHOOL

With the world still recovering from the COVID-19 pandemic, now may not be the right time to pursue a career in event planning. Or maybe, says Jaliece Rivers, it's the perfect time.

"The past year has been so hard for so many reasons, but we all realized how important it is to be together," says Rivers, who earned a degree in marketing from Olin Business School. "The industry was definitely hit hard, but it will come back stronger because we're all feeling that need for community. No pandemic can ever change that."

Rivers has been bringing people together since she arrived on campus. As the first-ever vice president of events for the Olin Business Council, Rivers organized a trip to Chicago for students to network with marketing professionals. Rivers also served as programming manager for Urša's, expanding its programming to reach more upper-level students who live off campus and in the Village. In addition, Rivers was among the many College Prep alumni who returned to the program as an assistant.

"A lot of our job was making sure everyone followed directions and that nobody got lost," says Rivers with a laugh. "But my favorite part was making sure everyone felt comfortable and welcome — in other words, hospitality. That's what I'm all about."





MERIS SARIC

→POLITICAL SCIENCE | ARTS & SCIENCES

One day, Meris Saric will serve the United States as a foreign service officer.

But today, he is serving his adopted nation as a Teach For America third-grade teacher in Washington, D.C.

“Third grade is that pivotal year when students transition from learning to read to reading to learn,” says Saric, himself a product of TFA teachers. “I can think of no better way to start my career in public service than being a force for good for these children. This is my way of paying forward all that I have received from my teachers, my professors and everyone at the College Prep Program.”

Born in Bosnia in the aftermath of a devastating war, Saric eventually plans to attend graduate school and work for the U.S. State Department. He has studied American foreign policy as a political science major in Arts & Sciences, interned at the Advisory Council for Bosnia and Herzegovina, volunteered as a poll worker and campaigned for Democratic political candidates.

“I know firsthand the power of diplomacy,” Saric says. “As Americans, we don’t always fully appreciate it, but we have such an important role in the world.”

In addition, Saric also worked as a student conduct ambassador, creating programs to raise awareness about academic integrity. He saw the sensitive work as early training for his career in government.

“In a way, it put me in the mindset of someone who works with classified information,” Saric says. “Student conduct may sound like a bunch of rules and punishments, but our work was about creating a culture that is fair. That’s what we all want.”

TABITHA SMITH

→PSYCHOLOGY | ARTS & SCIENCES

Tabitha Smith imagined college life would be a whirlwind of exciting classes, interesting friends and weekends packed with parties.

And it was — for a while. She joined the campus mariachi band and met fascinating students and professors from across the globe. But when both of her grandparents fell ill, Smith stepped up to help provide around-the-clock care. Smith’s professors were accommodating, extending deadlines and excusing absences. Still, she was exhausted.

“There were many nights when I asked: ‘How am I supposed to care about my homework? I just had to convince my grandmother that I’m really her granddaughter and that I didn’t break into the house,’” says Smith, whose grandparents have since passed away. “I grew up really fast.”

During this time, Smith’s 4-year-old brother was diagnosed with autism. Some family members confused his behaviors with obstinance, but Smith recognized that he needed treatment. The more she learned about the developmental disorder, the more she wanted to help people with disabilities. She started work at Easter Seals, providing applied behavioral analysis (ABA) therapy to young children.

“I really enjoy helping children build social skills and reinforcing positive behaviors,” Smith says.

Smith is considering a career in disability services, or she may seek out research opportunities in a psychology lab. But right now, she is taking a moment to breathe.

“I’ve got my apartment, I’ve got friendships,” Smith says. “I’m not going to pressure myself to find that perfect career. I just want a job that I enjoy.”



Drawing UPON Memory

As they say, some memories never fade. Here, alumni designers illustrate one of their favorites and captivate with their college recollections.

■ TERRI NAPPIER

When asked to illustrate any favorite memory from their time as WashU students, these accomplished alumni enrolled immediately.

The assignment was designed to allow them — and us — an opportunity to take a trip down memory lane and revisit what makes a Washington University education so special. The result is a delightful and distinctive mix. Kicking off the series on the cover, **Morgan Schweitzer, BFA '07**, senior art director at BUCK Design in Los Angeles, reminisces about all the things that took place during his college experience (see pg. 1 for Schweitzer's description of his cover illustration). **Alex Eben Meyer, BFA '98** — an illustrator with a wide range of editorial, advertising, publishing and interactive clients to his credit — depicts working on a life-size assignment for a 3D design class. Illustrator and designer **Max Temescu, BFA '13**, whose past clients include *The Atlantic* and *The Hollywood Reporter*, highlights an extracurricular: his time DJing late nights at KWUR. **Molly Brooks, BFA '09**, an illustrator, comics-maker and author/illustrator of the graphic novel series *Sanity & Tallulah*, reveals a charming secret of her time in residential housing. **Noah Macmillan, BFA '11**, a designer/illustrator whose diverse portfolio includes work for Major League Soccer, McDonald's, *Smithsonian Magazine* and more, showcases people — the friendships and special sense of community he experienced while at the university. And **Sara Wong, BFA '16**,

currently art directing at Facebook, renders a different take on community, portraying the long hours she spent in the studio with friends.

John Hendrix, professor and chair of the Master of Fine Arts in Illustration & Visual Culture program, says “delightful” and “distinctive” are apt modifiers for the alumni themselves. Thinking back on their time as students, he says, “In many ways I take it as a point of pride that we’ve had illustrators come out of the Sam Fox School of Design & Visual Arts with so many different visual styles, because it’s not about the way their work is constructed. We’re teaching voice really, and authorship.”

Hendrix, who is a *New York Times*-bestselling author and illustrator himself, remembers something else that distinguishes these alumni and so many of their Sam Fox School peers: They were particularly driven as students, as well as curious, invested, persistent and smart.

“It shouldn’t surprise me, because I’ve been teaching WashU students for years. But they’re so good in so many different areas of academic achievement,” Hendrix says. “They’re great writers; they’re great talkers. They know how to describe what they’re doing. And their emotional capacity *and* intellectual capacity are really high.

“It’s always a blessing to think back on these former students,” he says. “And it was a great joy to have these amazing people and talented artists in the classroom.”



WHO

Alex Eben Meyer, BFA '98

 eben.com


 [@alexebemeyer](https://www.instagram.com/alexebemeyer)

In the second semester of my first year, I took a 3D design class. One of our assignments was to create a human-size animal marionette. I created a hand-sewn armadillo out of vinyl, burlap and hay. I worked on this in my dorm's common area, which was a former chapel in Wash Hall, a building rented on the Fontbonne campus across the street from the South 40. I don't recall how many nights it took, but I had blisters, and there were trimmings and hay everywhere. To this day, I have no idea if the outcome was any good, but the chances I took, effort I put in, and the confused glances I got from my friends will never be forgotten.



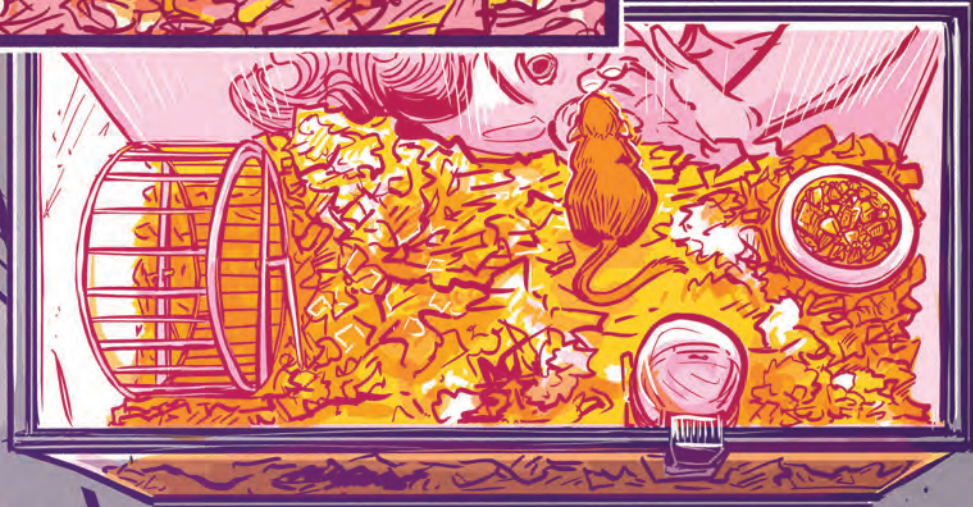
WHO
Max Temescu, BFA '13

 temescuart.com

 [@maxtemescu](https://www.instagram.com/maxtemescu)

A lot of my favorite WashU-specific memories came from my involvement in the student radio station KWUR, which was located in the basement of the Women's Building. I had a funk/jazz show called "The Down Stroke." I think the only slot I could get my first year was 4 a.m. on Wednesday. Luckily, sophomore year I managed to get a 3 a.m. show. Overall, the station felt chaotic yet chill. To varying degrees of success, there were a lot of people putting effort into creating one of the less institutional spaces on campus, which seemed like a good idea.





WHO
Molly Brooks, BFA '09

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My first-year dorm didn't allow pets except for fish. In a low moment, I rode my bike to a nearby pet store, acquired a gerbil and named it Fish (in hopes of getting off on a technicality if discovered). Fish was the wind beneath my wings, and I regret nothing.



WHO

Noah Macmillan, BFA '11

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After living through enforced isolation due to the pandemic, I'm thinking my favorite WashU memories are all about the feeling of community. I loved running into friends on my way to and from class, and the unplanned meetups for coffee at Whispers. I've drawn a memory of hanging out on the fire escape outside my apartment on Kingsland Avenue on a warm afternoon, as friends come and go. I'm sure it didn't feel memorable at the time, but those moments feel so special now.






WHO

Sara Wong, BFA '16

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 [@saraarielwong](https://www.instagram.com/saraarielwong)

In this “Studio Days” illustration, I take a warm look back on the days and nights spent in the Sam Fox School studios and the creative energy and community they sparked — where we would draw with friends, eat pizza (slices of which naturally show up in unexpected places), and catch a quick nap.

Next



Photo: Avi Pryntz-Nadworny

A background photograph of a brick wall with a red metal beam. A hand is visible holding a juggling club. The scene is lit with warm, directional light, creating strong shadows.

WORLD OF OUR WASHU ALUMNI

Alumni Profiles	42
First Person	47
My Washington	48
Alumni Activities	50
Class Notes	52
In Memoriam	60
Lasting Impression	64

Keeping his chin up

Thom Wall, AB '09, picked up his first juggling book when he was 10 and developed his technique in part in WashU's juggling club. After graduating, he went from street performer to a star of Cirque du Soleil and traveled the world. Now, he's preserving the history of the circus, in particular the skill he loves so much, juggling, with Modern Vaudeville Press. He publishes works about the history of juggling, circus artists of color, miming, contortionism and more. Go to source.wustl.edu/2021/04/a-juggling-act/ to read more.

Searching for life in the cosmos

Planetary scientist Sarah Stewart Johnson, AB '01, wants to find the limits of life and broaden our world.

In her 2020 book *The Sirens of Mars: Searching for Life on Another World*, **Sarah Stewart Johnson, AB '01**, recounts when, as a WashU sophomore, she was on a class trip to Hawaii led by **Raymond Arvidson**, professor of Earth and planetary sciences. While climbing the dormant volcano Mauna Kea, she traversed well above where trees and plants could grow, reaching an ashy, smoldering landscape above the clouds. There she made an unexpected discovery — a tiny fern growing beneath a rock — revealing to her the persistence of life itself.

“There was something in that moment that made me become a planetary scientist,” writes Johnson, who saw then “a chance to discover the smallest breath in the deepest night and, in so doing, vanquish the void that lurked between human existence and all else in the cosmos.” Johnson has continued that search for life ever since.

The Sirens of Mars, one of the *New York Times*’ 100 Notable Books of 2020, blends the history of Mars exploration with Johnson’s own scientific journey — from her childhood in Kentucky, where she was inspired by her father’s passion for astronomy, to her current position as an associate professor of planetary sciences at Georgetown University. Along the way, Johnson attended Oxford University as a Rhodes Scholar, earned her PhD from MIT and served as a White House Fellow under the Obama administration. But the foundation for Johnson’s career fell into place at WashU.

Knowing that Arvidson, now the James S. McDonnell Distinguished University Professor, had been an integral part of the first Mars rover mission, *Pathfinder*, Johnson immediately sought him out on arriving at WashU and joined his lab. Arvidson went on to become an invaluable mentor, and years later, Johnson worked with him again on the *Spirit* and *Opportunity* rover missions at NASA’s Jet Propulsion Lab in Pasadena, California. Johnson also cites the influence of the late **David Hadas**, a professor of

English and religious studies who kindled her interest in writing and in exploring life’s big questions, all of which carried over into *The Sirens of Mars*.

“I wanted to offer a different approach than when you solely look at the science,” says Johnson of her book. “There is this human history there. The more you study it, the more beauty and profundity there is.”

At Georgetown, Johnson’s work focuses on how to detect and decode biosignatures — traces of life — on other planetary bodies. “To figure out the best ways we can do that,” says Johnson, “my students and I travel to extreme environments all over the world to investigate what kinds of life can survive there.” By going back into the ancient rock record, her lab can detect definitive signs of life, even at low signals, and she is applying those techniques to her research on Mars, most recently with the *Curiosity* rover mission.

Johnson is especially excited about a recent grant from NASA to work on a project called the Laboratory for Agnostic Biosignatures, which is searching for traces of life, but not as we know it. “We’re looking for types of life that don’t presuppose a particular molecular framework.” By examining signs of energy transfer, compartmentalization or fractionation of elements, or chemical equilibrium, Johnson hopes to get at what might be a separate genesis of life.

But perhaps most significant, Johnson’s book gets at the “why” of scientific knowledge. “Asking if we are alone in the universe feels very important, even if we find only a simple microbe,” Johnson says. “All we know about life is from the kind of DNA-, carbon-based life on our planet, but it’s essentially one data point. Having a second data point, and especially if we found it right here in our solar system, would suggest that the entire universe is full of life. To me, that feels like a kind of immortality. We have these finite lives and our planet is finite — at some point our sun will explode and that will be the end of things — and the idea that life would still go on, I find a lot of meaning in that.”

■ RYAN RHEA, AB '96, MA '01



WHO
Sarah Stewart Johnson,
AB '01

WOULD SHE EVER GO TO MARS?
“I’d never say never, but right now, it doesn’t fit,” she says, explaining that being a mother of two small children precludes her from wanting to add astronaut to her portfolio.

OTHER IMPORTANT WASHU MENTORS
Sharon Stahl, vice chancellor for students emerita, and Maxine Lipeles, senior lecturer in law and director of the Interdisciplinary Environmental Clinic, whom she met through WashU’s Women’s Mentoring Program

SCHOLARSHIP
Arthur Holly Compton Scholarship

Preserving the Negro Leagues

Kevin Johnson has worked for more than a decade to compile statistics from the Negro Leagues, ultimately helping them secure some long-awaited Major League recognition.

In December 2020, Major League Baseball (MLB) announced that it was finally going to include Negro League statistics in its major league record book. Before Jackie Robinson was recruited by the Brooklyn Dodgers in 1947, baseball was segregated for 60 years. Blacks played in the Negro Leagues, which never fully compiled players' statistics. The performances of greats like Willie James Wells, a shortstop in the Baseball Hall of Fame, and "Cool Papa" Bell, a centerfielder and one of the fastest to play the game, were recounted in anecdotes, not hard numbers.

Enter **Kevin Johnson, BSBA '84**. In the 1990s, Johnson, a huge baseball fan, met Gary Ashwill, who said he'd compiled statistics for the 1921 Negro League season.

"It blew my mind," Johnson recalls. "I thought we didn't even have statistics for the Negro Leagues." Serendipitously, Johnson had, with Mike Lynch, started a website, Seamheads.com, devoted to baseball history. Why not compile the Negro League stats there?

How does one compile such stats? Game by game. Researchers track down newspaper articles for games, read box scores, and try to figure out if this J. Johnson is the same guy who was on another team last season. And to complicate matters even more, the Negro Leagues played different types of games. Major League Baseball teams play only against each other, but Negro League teams played against almost anyone, including semi-pro white teams and other all-Black teams that weren't in their leagues.

Seamheads.com organizes all the statistics from professional games, and Johnson ensures that the numbers add up. So far, Seamheads.com has collected data for every Negro League season in the United States from 1886 through 1948.

His Seamheads.com work has earned Johnson many recognitions. In December 2020, when the MLB announced that it was going to incorporate the Negro League statistics into the major league record book, it thanked the work of Seamheads.com, even mentioning Johnson by name.

Seamheads.com is now in talks about licensing its database to the MLB. Johnson is glad that the MLB is finally recognizing the Negro Leagues, but he's cautious: "We worry about Major League Baseball patting itself on the back for recognizing the Negro Leagues but not really saying, 'By the way, we're sorry,'" Johnson says. "Overall, it's a good thing, but it doesn't change the history."

■ ROSALIND EARLY, AB '03



WHO

Kevin Johnson, BSBA '84

LOCATION

Tulsa, Oklahoma

WEBSITE

Seamheads.com

DAY JOB

Data analyst

FAVORITE NEGRO LEAGUE PLAYER

"Willie Wells, because he played for the St. Louis team, which is my favorite team since I'm from St. Louis. He was also pretty much the top shortstop in Negro League history."

RECENT ACCOLADES

Tweed Webb Lifetime Achievement Award, 2019

Fay Vincent Most Valuable Partner Award (with Gary Ashwill), 2019

Illustration: Monica Duwel



Courtesy photo

The business of giving

Brenda Asare has raised billions for nonprofits by taking a for-profit approach.

WHO

Brenda B. Asare, MBA '89

CURRENT POSITION

President & CEO of The Alford Group

FUN FACT

Asare has collected quotes most of her life.

FAVORITE QUOTE

"A journey is called that because you cannot know what you will discover on the journey, what you will do with what you find, or what you find will do to you." —James Baldwin

FAVORITE SAYING

Someday is today.

When **Brenda Asare, MBA '89**, lost her grandparents to cancer, she decided to work at the American Cancer Society (ACS) to raise awareness about the disease. After finishing her undergraduate degree, she gave presentations for the ACS that always mentioned the need for public support. Asare, however, wasn't an ACS development officer; she was a program associate. She didn't have to fundraise; she wanted to.

"This was the '80s, and fundraising had the negative connotation that you were begging for dollars," Asare recalls. "But I felt like I was presenting an opportunity for people to make a difference."

Her supervisor encouraged her to go into development, where she realized that nonprofit work is like business. "Oftentimes, people look at a nonprofit organization and think because of its IRS coding that it's less of a business. It's every bit a business — with the same

challenges," Asare says. Nonprofits have to figure out how to maximize resources, find talent, manage finances, engage with funders and more, she says.

Asare decided to earn an MBA degree to bring a business approach to nonprofit work. The South Carolina native heard about WashU through the Consortium for Graduate Study in Management, which enhances diversity and inclusion in business education.

Asare was one of the few in her class who came from a philanthropic background and threw herself into volunteer service while she was a student, winning the Dean's Service Award for her work.

After graduation, she joined the American Red Cross, raising more than \$100 million in 15 years. In 2004, she joined The Alford Group, a consulting business for nonprofits. Now the president and CEO, she has partnered with nonprofit clients to raise more than \$2 billion. In 2019, she was recognized as a Crain's Notable Minorities in Consulting for her nonprofit work.

Asare's other passion is making the social impact sector more equitable. Nonprofit leaders, including board chairs and development officers, are overwhelmingly white. For the past 21 years, The Alford Group has been the sole sponsor of the Diversity, Equity and Inclusion Workshop at the Association of Fundraising Professionals' annual international conference.

"Our focus has been on increasing the diversity of fundraising professionals and creating pathways to leadership," Asare says. As a mentor to people in the field, Asare has noticed the scarcity of people of color being promoted to leadership roles.

"We are spending all this money getting people dressed up to go to the party, but they're not invited to dance," she says. "We want to create an inclusive environment for these professionals to come into and be successful."

"It's amazing, the work our nonprofit sector does day in and day out to change lives and to make the world a better place for all people," Asare says. "Everyone should be a part of this effort."

■ ROSALIND EARLY, AB '03



Photo: Olli Tumelius

Engineering her own path

Dianne Chong studied to be a doctor but ended up in the Women in Engineering Hall of Fame.

WHO

Dianne Chong, MM '98

STUDIED

Manufacturing management

OTHER ACCOLADES

Current president of ABET, the Accreditation Board for Engineering and Technology

Elected to the National Academy of Engineering and the Washington State Academy of Science, 2017

Awarded the Outstanding Achievement Award for Metallurgy from University of Illinois Chicago College of Engineering

When **Dianne Chong, MM '98**, sees a factory scene on TV with machinists hard at work, she'll sometimes turn to her husband and say, "I bet they can 3D print that now."

After a nearly 30-year career in manufacturing, that's how the former Boeing executive and president-elect of the SME (formerly the Society of Manufacturing Engineers) sees the world.

"Fundamentally, manufacturing is about making things," Chong says. "Look around your room. You can ask, 'How is this made?' about anything. It doesn't matter what you're looking at."

But Chong didn't always see the world that way. She thought she might be a doctor — even earning a master's in physiology at the University of Illinois Chicago, intending to go to medical school — until a graduate school adviser told her to try materials engineering.

"I never looked back."

In 2015 Chong retired as the vice president of Boeing's Research and

Technology operation. She'd joined the company thinking she'd work on materials research. "Everyone went into the field wanting to make something cool that they could point to on a product, such as 'I did the materials work for the F-18!'"

Cutting-edge, high-tech airplanes? It does sound fun.

When Chong recounts her most fond memories, though, they have almost nothing to do with materials and everything to do with people. She recalls rallying a Seattle team to safely deliver the 787, which was two years behind schedule when she arrived, or overseeing a massive reorganization that was initiated at her request. She brought together 2,500 people across 10 sites to form the Research and Technology organization.

Chong was prepared to take on such tasks later in her career because of an earlier job at McDonnell Douglas, where she first worked in manufacturing and production. McDonnell Douglas also sent her to WashU for a master's degree in manufacturing management, which allowed her to consider manufacturing in an academic context. "It was engineering," she says, "but at the same time, the business side was very well taught."

While in St. Louis, Chong hosted workshops for women interested in math and science careers. She still likes to talk with people about their careers. She opens by asking people if they're doing what they set out to do. Are they doing what they love? People usually smile and nod, she says, but the answer is almost always "no."

What about her? She studied medicine but was one of the inaugural inductees in the Women in Manufacturing Hall of Fame. She has a business degree and has worked on space technology. Did Chong do what she loved?

"Yes, yes I did," she says. "I kept getting newer opportunities" — then she bursts into laughter — "that allowed me to love something else."

■ BRANDIE JEFFERSON

Sam Goodwin: Surviving a Syrian prison

Sam Goodwin, a graduate student in international studies in Arts & Sciences, traveled to all 193 United Nations sovereign countries from 2010 to 2019. But he came horrifyingly close to missing that mark: In May 2019, he was detained at a Syrian Army checkpoint and spent two months in the Syrian prison system while his family was making a heroic, fortuitous and successful attempt to get him out.

"Is this where my story ends?" he recalls thinking. It wasn't. But how does a young man survive an experience like that? He kept going. Here's how:

► **I leaned on all kinds of things for support.** I leaned on the travel I had done, which brought a perspective and appreciation for the food I was being given. I leaned on the skills I'd learned as a competitive athlete: critical thinking, resilience and mental toughness. I leaned on the desire to see family and friends again, and the belief I had a purpose in life. But nothing was more important than my faith in God. Everything had been taken from me: my communication, my possessions, my freedom. But I knew that no matter what, my faith was absolute. I would have been in a completely different situation without it.

► **I got out there and finished my travels after Syria.** I had only 12 countries left, and they were Caribbean islands and a few in South America. Traveling was therapeutic. It's what I was doing before, so I was able to gently work toward not letting what had happened conquer me. I ended up finishing the quest Dec. 31, 2019, in Brazil, an incredible feeling after everything that had happened. Weeks later, everything started closing because of COVID.

► **After all that, did I really need a master's degree?** There's always another perspective, another lens

through which the world can be viewed: a business lens, or cultural or spiritual, whatever it is. After spending the better part of a decade working and traveling in Asia and completing this quest around the world, I returned to St. Louis. Now, I'm looking at the world through an academic lens, and that's been a fantastic, complementary experience to what I've done in the past 10 years. Constantly looking for new ways to view the world was a key part of deciding to study international affairs and go to grad school.

► **There's no doubt that my imprisonment is crucial to my perspective.** It's taught me how to manage tough situations. I do presentations now and talk about life's "sine curve" from trigonometry, this never-ending, up-and-down wave. When things are good, at the top of the curve, it's important to have humility, gratitude and awareness. But nothing deeply good emerges from the top. It's at the bottom of the curve where growth happens. I've never met a single person who hasn't experienced the bottom of a curve — whether it's a relationship, financial trouble, the sickness and death of someone close, or being held captive in a Syrian prison. The way you manage the lows defines who you become.

► **We've all experienced a different kind of lockdown with the pandemic.** We couldn't control when things opened up or when we could meet again, but there were things we could control: attitude and reaction to what happened to us. Control what you can, and manage the lows. Those are things that I tell my closest friends.

■ LESLIE MCCARTHY

Photo: Joe Angeles

WHO

Sam Goodwin

FUN FACT

Goodwin attended Niagara University on an ice-hockey scholarship

TOP TRAVEL EXPERIENCE

Playing ice hockey alongside North Korean teammates when he spent a week in North Korea helping train the DPRK National Hockey Team

BEST HOTEL

El Nido Resorts' Lagen Island, in Palawan, Philippines





Photo: Jerry Naunheim, Jr.

George and Carol Bauer established the George and Carol Bauer Leaders Academy for the Danforth Scholars Program to help scholars, such as (from center, right) Jimmy Rao, Elise DeConinck and Mackenzie Liening, clarify their values as they prepare for careers.

George and Carol Bauer: Leading through service

Emeritus trustee **George Bauer, BS '53, MS '59**, and his wife, **Carol Bauer**, believe in the power of servant leadership. The Bauers have practiced this philosophy throughout their lives: A strong example is their exemplary service to Washington University. Over the past three decades, they have generously shared their time, talents and financial resources, advancing every facet of the university's mission of education, research and patient care.

Most recently, the couple made a significant gift to establish the George and Carol Bauer Leaders Academy for the Danforth Scholars Program, one of WashU's signature scholarship programs. This new leadership and character development initiative will help undergraduate Danforth Scholars discover their talents and clarify their values as they prepare for careers and lives in service of the greater good.

WHAT DOES SERVANT LEADERSHIP MEAN TO YOU?

George Bauer: One of the foremost scholars in the area of servant leadership is Robert Greenleaf, who was a director of management development with AT&T in the early to mid-20th century. He coined the phrase "servant leadership" and really made popular the notion that your role as a leader is to serve and support those who work for you, not to direct or dominate them. During my 31 years at IBM, I worked to implement this idea in the organization and in my role as a manager. For both Carol and me, it all goes back to our families. Service has been in the fabric of our lives from the start.

Carol Bauer: Both of my parents were church leaders. My dad also was head of an apprenticeship program for electricians in St. Louis and president of the electrical workers union. He stressed the importance of spending time with his students and the electricians in the union in order to get to know them and their work.

I've been involved as a volunteer with our local hospital in Norwalk, Connecticut, for 40 years and was fortunate to become chair of the board. As I was assuming the role, one of the hospital's leaders suggested that I might not have time to continue volunteering,

but I believed this investment of time was essential. I said, "How can you make decisions with integrity on the board when you don't know what's going on out in the hospital?" So I continued and have worked with staff of all levels and in many different areas. This service has been such a rich part of my life and has informed my leadership in so many ways. When others see that you are a leader and that you are working alongside them, I think that sends a strong message about the value of every person in the organization.

HOW HAS SERVANT LEADERSHIP INFORMED YOUR PHILANTHROPY?

George: Carol and I both come from fairly modest means. Her father was an electrician, and my parents were farmers. The good fortune that has come our way is a gift, of which we are the stewards. That means not just writing a check to an organization but really being involved and invested in organizations achieving their goals.

Carol: We have a family foundation, and our children, along with others, serve as trustees. They all have a certain amount of money to direct as they see fit, but they have to be involved in some way in the organizations to which they give. We feel so strongly about service, and, for us, there's no greater joy than working alongside the people in the organizations we support.

WHY HAVE YOU BEEN INVOLVED AS VOLUNTEER LEADERS AT WASHU?

George: When I retired from IBM and went into investment banking, I found I had more time and more resources, and I was looking for a way to be a good steward of those resources. Washington University literally changed my life. It changed my understanding of the

world around me and helped me grow intellectually as well as spiritually. In particular, an elective course on comparative religions of the world that I took with Huston Smith helped me realize that through my good fortune, I could help "level the playing field" for those less fortunate in our society.

WHAT HAS BEEN THE MOST MEANINGFUL PART OF YOUR SERVICE TO WASHINGTON UNIVERSITY?

Carol: The highlight has been getting to know the students, especially those who have been a part of the Bauer Leadership Center we helped establish at Olin Business School several years ago. It's a rare privilege to meet such promising young people who are pursuing their education and determining what their life's work will be. We really look forward to meeting Danforth Scholars who participate in the Bauer Leaders Academy.

George: It's been so interesting to sit down with students and listen to them, field their questions and reflect on our own experiences. During a visit to campus a couple of years ago, I met several fellows from the Bauer Leadership Center, and we were discussing banking. I mentioned the Resolution Trust Corp., which predated them and hadn't been covered in their classes. I was able to share my firsthand experience in the hotel business with this government intervention, which was created to resolve the savings and loan crisis of the 1980s. We talked about how and why that happened and what we might be able to do to avoid such a phenomenon in the future. Those kinds of discussions make getting involved at the university very worthwhile.

■ TRICIA HENDRICKS

WashU runs in the family

For the Glazers, family reunions look more like WashU Reunions.

Some families hand down heirlooms from generation to generation. But the most prized possession of the extended Glazer family is not a set of fine china or a vintage wedding dress or any physical object. Rather, it is the value of a strong family and an equally strong education. And for the Glazers, Washington University has often been the place where those two essentials meet. Over the past 70 years, 16 members of the sprawling Glazer family tree — which encompasses the Chazen, Glazer, Goldstein, Kaplan and Shapiro branches — have graduated from, currently attend or are about to matriculate at WashU.

The Glazer family's longstanding relationship with the university is remarkable, and it is a development that **Melvin Chazen, BS '55**, never could have predicted as an 18-year-old high school senior in 1951. Born and raised in St. Louis, Melvin knew he could not afford to move away from his hometown for college. Luckily, nearby WashU offered the rigorous chemical engineering program he sought. And so, in the fall of 1951, Melvin began commuting to campus from his childhood home in the city, a daily journey that clocked nearly 45 minutes and required a streetcar and a bus.

Melvin found his engineering professors and coursework truly challenging, and he credits his time at WashU with providing the sound scientific foundation and problem-solving skills he needed to succeed as a chemical engineer. "A good engineering school prepares you to take what you've learned in the classroom and apply it to your work in the industry, and WashU did that for me," he says. After earning his degree in 1955, Melvin built a distinguished reputation in the field. He spent 29 years as the chief engineer of rocket engines at Bell Aerospace Corp. in Buffalo, New York, where he developed engines for the Minuteman III Upper Stage rocket, commercial satellite engines and technology programs. He then transitioned to TRW, Inc. in Redondo Beach, California, serving as the program manager and technical director for NASA's advanced engines for 12 years before retiring in 1999.

When he married Dorothea Glazer in 1958, the only person in her family who had heard of WashU was her twin brother. With Melvin now in the family fold, WashU firmly entered the Glazers' radar. So it was not a complete surprise when niece **Marlene Kaplan, BS '72**, and nephew **Arnold Shapiro, AB '72**, both



applied and eventually enrolled at WashU in the late 1960s. By the time another Glazer nephew, **Julian Goldstein, BSBA '80**, arrived on campus in the fall of 1976, it was clear the family's various ties to the university were multiplying.

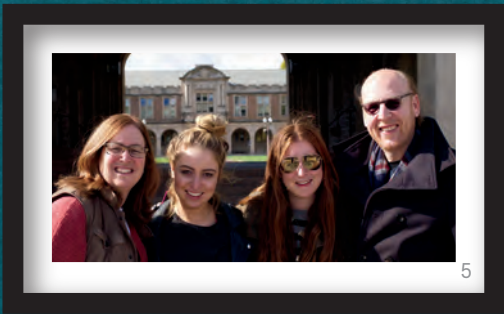
Julian was drawn to WashU because of his cousin Arnold, whose undergraduate years had yielded fond memories and admission to medical school. Julian came to WashU as a shy and quiet teenager from Rochester, New York, but he left an outgoing and self-assured leader. He became an active member of Sigma Alpha Mu and made lifelong friends as the fraternity's recruitment chair. He won election to Student Union and was invited to join Thurtene Honorary. Quickly abandoning the pre-medicine track of his cousin, Julian found his academic niche at Olin Business School, which equipped him for future business success.

WashU also brought him closer to his family. By his senior year, his cousin **Avie Glazer, BSBA '82**, was a sophomore, and his younger sister, **Jackie Goldstein Blank, AB '83**, was a first-year student. As fraternity brothers and housemates, Julian and Avie spent more time together than ever before and developed a deep friendship and many mutual friends. Although Julian and Jackie did not get along well while growing up, their relationship blossomed as Julian introduced WashU to his sister.

One of the reasons Julian's undergraduate years remain so special to him was that he experienced them with family. Now an even younger generation is following suit. This fall, Julian's youngest daughter, **Isabel Goldstein, Class of 2025**, will join her older sister, **Sophie Goldstein, Class of 2022**, and their cousin, **Daniel Goldstein, Class of 2024**, at WashU. As if written in the stars, their configuration will



4



5

exactly mirror the Julian-Avie-Jackie triad of decades past. Like her father, Sophie will be able to offer invaluable support to her younger sister, sharing insider knowledge and favorite spots on campus and around St. Louis. More important, however, she looks forward to helping Isabel discover *her* WashU, just as she has been able to do.

Melvin Chazen came to WashU because he believed a high-quality education was the surest path to success. Seven decades later, generations of the Glazer family continue to follow his lead. However, it takes more than academic excellence to sustain a history such as theirs. WashU genuinely feels like home to the Glazers because of its community spirit and culture of collegiality and kindness. “Just like flowers, people bloom at different times,” Julian says. “And our family knows that WashU is a great place for young people to bloom.” ■ BY EMMA DENT, AB '09



What's your WashU story?

Do you or members of your family have a special connection to WashU? If so, we want to know! Share your WashU family ties with the Alumni Association at alumniassociation@wustl.edu.

Family photos above: 1. Avie Glazer, BSBA '82, soaking up the sights and sounds of Thurtene Carnival in 1980. 2. Daniel Goldstein, McKelvey School of Engineering Class of 2024. 3. (From left) Avie Glazer, BSBA '82, Melvin Chazen, BS '55, Jackie Goldstein Blank, AB '83, and Julian Goldstein, BSBA '80. 4. Sophie Goldstein, Arts & Sciences Class of 2022, and Julian Goldstein, BSBA '80, sporting their WashU pride. 5. Avie Glazer, BSBA '82, joined by his wife, Jill, and their daughters, Kendall and Libby, underneath the Brookings Hall archway.

WASHU REFLECTIONS

A Washington University education is both an individual and a shared experience in the Glazer family. Here, several generations look back and consider what WashU means to them.

“The greatest and most meaningful moment I’ve had at WashU happened exactly 25 years and a day after my own graduation. On that day, my daughter Shira [Kaplan, AB '97] followed in the tradition of her parents and stood in the legendary Brookings Quadrangle, where she became a graduate of *our* alma mater, WashU. That memory will last my lifetime!”

Scott Kaplan, AB '72

“WashU gave me a great pre-med education, which propelled me into my medical profession. It also gave me the four most fun years of my life!”

Arnold Shapiro, AB '72

“Taking ‘Investments’ in the Olin Business School 100% changed my life, even though I thought the course was a complete waste of my time while I was in it. A few years after graduation, what I learned there became the cornerstone of my business career. Much of the success I have achieved to date can be directly traced to that class.”

Avie Glazer, BSBA '82

“WashU was a big turning point in my life. It was where I developed the academic and social confidence to launch myself to the next level of who I wanted to become. Because I was surrounded by smart, driven and ambitious kids who were nice and down-to-earth, I felt motivated to succeed and safe to take risks. As a result, my confidence kept growing and positioned me to develop the core foundation of who I became in my adult life.”

Jackie Goldstein Blank, AB '83

“WashU is where I met my husband, David Harris, AB '03, and my best friends.”

Rachel Shapiro, AB '03

Next

Class Notes

“

As an undergrad and grad student, I remember the smell of the ginkgo trees while trying to study outside on a lawn just off the Quadrangle!”

IVAN BAER INGER, AB '60, PhD '64

Photo: James Byard

What's New?

Let us know about recent promotions, honors, appointments, travels, marriages and births, so we can keep your classmates informed about important changes in your lives.



SEND NEWS:

Class Notes, *Washington Magazine*
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Entries may take up to three issues after submission to appear in the magazine; they are published in the order in which they are received.

ALUMNI CODES

AR Architecture
BU Business
DE Dentistry
EN Engineering
FA Art
GA Graduate Architecture
GB Graduate Business
GD Graduate Dentistry
GF Graduate Art
GL Graduate Law
GM Graduate Medicine
GN Graduate Nursing
GR Graduate Arts & Sciences
HA Health Care Administration
HS House Staff (Residency)
LA Arts & Sciences
LW Law
MD Medicine
MT Manual Training
NU Nursing
OT Occupational Therapy
PT Physical Therapy
SI Sever Institute
SU Sever Institute Undergraduate
SW Social Work
TI Technology & Information Management
UC University College

1954

Byron Roe, LA54, emeritus professor of physics at the University of Michigan, updated his textbook *Probability and Statistics in the Physical Sciences* (Springer International Publishing, 2020). Now in its third edition, the book is a practical guide to the use of probability and statistics in experimental physics.

1956

Betty (Johnson) Smith, LA56, stays busy with Zoom meetings, bridge, exercise and church, all online. She looks forward to the restart of in-person class reunions.

1958

Alice Helmer, FA58, celebrated her 85th birthday last year. She lives in the Kansas City area near her children, grandchildren and great-grandchild, and enjoys the many opportunities to view and enjoy art. Helmer writes that she is impressed with the many changes and additions to the WashU campus since the '50s when the school was lovingly referred to as a streetcar university with no dorms.

1959

Del Schwinke, BU59, in late 2019 was tapped by the Advertising Club of Greater St. Louis for its Lifetime Achievement Award. The award recognizes dedicated leadership and outstanding service to the St. Louis advertising community. Schwinke has taught advertising in University College since 1999.

1960

Thomas Spring, GR60, moved from Hawaii to Cupertino, Calif., to help care for his elderly and infirmed Marianist brothers.

1962

Polly (Crawford) Dozier, LA62, is semiretired after her last senior minister assignment in Nanaimo, Vancouver Island, B.C., and is living in Florida to be near her son and granddaughter. She still enjoys speaking on inner peace and relationship harmonics, and is writing a book about her experience as a liaison between the Russian Orthodox Church and the Communist government.

Rick Hesse, EN62, SI65, SI68, professor emeritus of decision sciences at Pepperdine University's Graziadio Business School, received the "Best Learning and Education Research Paper" award at the Decision Sciences Institute 51st Annual Conference (online) in November 2020. The paper, titled "Adjusting Forecasts with Seasonal Data," represents some of his work with Solver moving averages. Hesse says, "Not bad for an 80-year-old!"

1963

William Dillon, DE63, is first president of the Saxony Lutheran High School (Jackson, Mo.) board of regents. He has served as a dental adviser to Southeast Missouri Head Start and as district governor for Lions International.

1964

Beverly Heckart, GR64, GR68, retired from university teaching.

Nancy Kauffman Holder, LA64, SW66, is a tutor with ¡Adelante Latina!, a free after-school academic enrichment and college preparatory program for promising Latina girls attending Baltimore City high schools. The academically selective program also helps students learn about colleges and universities and apply for admission and scholarships.

1965

Diana Burchfield, FA65, bested 38 other exhibitors of aquamedia works at the Audubon Artists 78th Annual Exhibit in 2020 to win the Gold Medal of Honor with "A Walk in the Park," a watercolor of New York City's Battery Park.

Susan (Soffer) Cohn, LA65, wrote and recently self-published *The Art of the Mentor: The Superpower That Turns Good into Great*, which tells the story of her transformation from a 50-year-old, successful businesswoman to an award-winning artist. Cohn creates original art and prints along with teaching art classes and workshops.

Leonard Frankel, LW65, was named Lawyer of the Year in the area of mediation in St. Louis by *The Best Lawyers in America* for the third year. Frankel is partner at Frankel, Rubin, Klein, Payne & Pudlowski, P.C., with offices in Clayton, Mo.

1966

Harvey Mike Jones, MD66, was elected president of the American Osler Society for 2020-21. Dedicated to preserving the principles and legacy of Sir William Osler, the group convenes annually for the presentation of papers centered on medical humanism and history.

Carolyn (Fuchs) Perry, GR66, penned an anniversary edition of *For Better, For Worse: Patient in the Maelstrom* with a new afterword (Sunbury Press, 2020). In the book, Perry shares the story of how she and her husband, who was in the midst of chemotherapy, were marooned by Hurricane Katrina at Memorial Hospital in New Orleans. Perry lives in New Orleans.

Julie Wosk, LA66, professor emerita of studio painting, art history and English at the State University of New York, Maritime College, in New York City, self-published



I have great memories of my time at Washington University, including playing junior varsity basketball in 1954 and 1955, and performing Edvard Grieg's 'Piano Concerto in A minor, Op. 16' with the Washington University Orchestra in 1957. I still remember the varied experiences that a college education provides."

HENLAY FOSTER, AB '21, was also a member of Phi Mu Alpha Sinfonia, an "honorary society for men having a sincere interest in music." He's pictured above (second row, fifth from left) in a 1957 edition of the *Hatchet* yearbook. In May, Foster graduated from WashU after a 67-year journey. Read more of his incredible story at source.wustl.edu/2021/05/a-67-year-journey-from-first-year-student-to-alum/.

(Photo: Courtesy Washington University Archives)

Playboy, Mad Men, and Me – And Other Stories (2020). The book is about her early career as a public relations and advertising copy writer for *Playboy*, her summer as a civil rights worker for Dr. Martin Luther King's organization in Alabama in the year of Selma, and more. Wosk's time at *Playboy* later inspired her book *My Fair Ladies*, about female robots and androids.

Martha (Soloway) Zarkowsky, LA66, GR67, for 34 years has lived in a Chicago suburb with her husband, Bruce, a retired vice president of Walgreens. They live near their oldest child, who is an attorney, and five grandchildren.

1967

Perci Chester, FA67, displayed her "Body of Work" sculpture series at the NE SCULPTURE | Gallery Factory in Northeast Minneapolis in late 2020.

Victoria Lonergan, LA67, and her husband, Richard, moved to Clayton, Mo., after 50 years in San Francisco. Lonergan writes that St. Louis is a much easier city to live in than San Francisco, and they don't have to worry about drought or wildfires.

1968

Daniel Freeman, LA68, penned *The House Was My Home: My Life on Capitol Hill and Other Tales* (Cadmus Publishing, 2020). The book covers the 30 years he spent as majority counsel and parliamentarian in the House of Representatives, where he worked on four impeachments and with three judges and a president. Freeman is a professor and fellow at American University's Center for Congressional and Presidential Studies.

1970

"**Terry**" **Richard Koch**, LA70, continues his work with the National Lawyers Guild-San Francisco Bay Area. Currently the treasurer of the Bay Area Community Law Foundation, he helped start the legal observer program in 1984 to protect the First Amendment rights of protestors. Koch, who is semiretired, continues to represent severely mentally ill incarcerated individuals.

1971

Chung-Kwang Chou, SI71, earned the IEEE Standards Association's Lifetime Achievement Award for his participation and leadership in the IEEE International Committee on Electromagnetic Safety for almost five decades.

1972

David Dietrich, LA72, GR79, continues in the private practice of clinical psychoanalysis. Dietrich also supervises psychiatrists and psychologists who are in training at the Michigan Psychoanalytic Institute and is on the clinical faculty of the Wayne State University School of Medicine.

Ronald Klein, BU72, has had two stem cell transplants in the last decade and recently received a kidney from his wife, Susan Klein. He says his wife's gift was "like getting half my life back." Klein has been with CAMICO, the nation's largest CPA-owned and -directed program of insurance and risk management for the accounting profession, for 35 years. He and his wife have a son, a daughter and three grandchildren.

Jayprakash Raison, SI72, SI74, writes of his appreciation to WashU for making events available online during the COVID-19 crisis.

1973

Gail Capper Altman, UC73, earned a graduate of arts degree in teaching English as a second language from Avila University, Kansas City, Mo., in August 2020.

1974

William Campbell, GA74, retired as a licensed architect/city planner.

Rebecca D'Harlingue, LA74, GR76, penned *The Lines Between Us* (She Writes Press, 2020), a dual-timeline novel set in 17th-century Spain and Mexico, and in 1992 St. Louis. The book was a finalist in the best new fiction category for both the Best Book Awards and the International Book Awards in 2020. Kirkus Reviews called D'Harlingue's book "an ambitious, engaging novel that explores the power of finding personal connection to the past."

Jane Hoyt Sanders, LA74, GR77, is a counselor at Southwestern Community College and continues to enjoy drawing and painting.

1975

David Mason, AR75, was appointed to the board of directors of The Mann Center for the Performing Arts in Philadelphia. Mason's civil and structural engineering firm is stewarding the site development for projects for The Mann's 22-acre campus in Fairmount Park.

1976

Alisse C. Camazine, LA76, was named one of the top 10 lawyers in Missouri and Kansas by Super Lawyers, the only woman and the only family law attorney on the list. Camazine is a principal with Paule Camazine & Blumenthal, P.C., in Clayton, Mo.

Ruth DeFries, LA76, wrote her second book, *What Would Nature Do? A Guide for Our Uncertain Times* (Columbia University Press, 2020). In it, DeFries details how a handful of fundamental strategies — investments in diversity, redundancy over efficiency, self-correcting feedbacks and decisions based on bottom-up knowledge — enable life to persist through unpredictable, sudden shocks.

David Goldman, LW76, is the author of several books that are used as textbooks by medical schools: *The Goldman Guide to Psychiatry with DSM-5 Update* (Goldman Group, 2016 and 2017), *The Goldman Guide to Medical Jurisprudence and Medical Ethics* (Goldman Group, 2014) and *The Goldman Guide to Psychiatry Review Guide* (Miracle Press, 2012). He also won the Midwest Magic Jubilee competition in 2019.

Lilita (Zvejnieks) Hardes, SW76, published her mother's WWII experiences in *A Memoir of Home, War and Finding Refuge – Biruta's Story*. A first-generation American, Hardes documented her maternal family's flight from Latvia in 1944 when the Soviets occupied the Baltics. Hardes, who is a licensed clinical social worker, counseled children and families in the Milwaukee area for 36 years and recently retired to San Diego. Website: www.lhardes.com.

Neal Robbins, LA76, who majored in Chinese and Asian studies, has published a book, *Venice, an Odyssey: Hope, Anger and the Future of Cities* (Local Secret Publishing, 2020), which has been called "an evocative, engaging and perceptive portrait of Venice, Italy — the ultimate city, a place with stories on every street and in every doorway, nook and cranny." Website: <https://localsecrets.com>.

Susan (Schonfeld) Silver, LA76, GR77, is a psychotherapist in Chicago specializing in couple's therapy, women in transition, and grief and depression. Silver and her husband love traveling the world and spending time with their three children and two grandchildren. As a member of Al Gore's Climate Reality Project, she is involved in educating people about climate disruption.

Barry M. Wyman, DE76, writes that he "finally hung up his handpiece on July 1, 2020, after 44 years of a mostly enjoyable dental career." Wyman served 22 years in the U.S. Air Force and U.S. Navy as a general dental officer and practiced with the U.S. Public Health Service in Alaska for 22 years. He still calls Alaska home but says he may be open to other options in the future.

1978

Laura David, MD78, and her husband, **Thomas Murphy**, MD78, have retired and moved to Reston, Va., to be near their granddaughter. They report that retirement is great and being grandparents is even better.

James Ritland, LW78, has practiced law in Black River Falls, Wis., for 42 years, and he says he's not ready to quit yet.

1979

Robert Choplin, HS79, is still at WashU after 41 years, working remotely as a radiologist while living in Virginia. In his free time, he enjoys pickleball, bicycling and working as a member of the League of Women Voters to protect and promote the constitutional right to vote.

Gary Feldman, LA79, was named to the 2020 Massachusetts Super Lawyers list, 2020 Chambers USA list and the 2021 edition of *The Best Lawyers in America*. A shareholder with Davis Malm Attorneys in Boston, he focuses on employment practice.

Thomas Goodmann, LA79, is executive director of The New Chaucer Society, a forum for teachers and scholars of Geoffrey Chaucer and his age, and president of TEAMS (Teaching Association for Medieval Studies). Goodmann is an associate professor and director of graduate studies at the University of Miami, where he teaches courses on medieval British and European literatures, and on literature and environment.

Joan Naylor, OT79, is retired from occupational therapy and has a new focus: volunteering to help refugees. She and her husband have volunteered in multiple locales, including the Calais Jungle refugee and migrant encampment in France and at Camp Moria in Lesbos island, Greece. Scheduled to return to Lesbos in June 2020, they were unable to go due to COVID-19. That has not stopped their efforts to help. Creating "Sharing With Refugees," the couple is selling Naylor's paintings, handmade hats and other creations for such endeavors as opening a sewing school in Kabul to help women learn a trade: www.sharingwithrefugees.com.

Stephanie Stevens, GR79, has worked as a volunteer trustee, vice chair and chairman for several nonprofits in the United Kingdom. She is completing a certificate of executive leadership at Oxford University's Said Business School. Stevens writes that WashU is a superb university, where she earned her most cherished degree. She lives in the Wiltshire countryside in southwest England with her second husband and three dogs.

1980

Susan Padfield, SW80, keeps busy at home with online courses and a psychology webinar taught by Washington University

medical faculty. During the pandemic, she has been staying safe in her home and her neighborhood and exercising her dog by tossing balls in the courtyard. Padfield says she is grateful to live in Seattle, where the threat of COVID-19 is taken seriously.

1981

Steven Beer, LA81, LA81, an attorney with Franklin, Weinrib, Rudell & Vassallo, P.C., was named to the Super Lawyer 2020 list in the entertainment and sports practice category.

Michael Lipman, LA81, who is an architectural photographer, writes that he wonders how his classmates are doing 40 years after graduating from WashU.

John Ritter, EN81, recently retired from Spirit AeroSystems in Wichita, Kan., and has moved back to the St. Louis area to be closer to family. Ritter says he's looking forward to new challenges and adventures.

1982

Bill Dedman, LA82, received Peabody and Murrow awards with his *Newsday* team for their three-year investigation of illegal steering by real estate agents on Long Island, N.Y. (See newsday.com/divided.) A Pulitzer Prize-winning investigative reporter, Dedman is a co-author of the bestseller, *Empty Mansions: The Mysterious Life of Huguette Clark and the Spending of a Great American Fortune* (Ballantine Books, 2013).

Steven Fellows, HA82, retired from Cottage Health, Santa Barbara, Calif., where for 16 years he was the executive vice president and chief operating officer.

Elizabeth (Jones) Seebach, LA82, is professor and chair of the Department of Psychology at Saint Mary's University of Minnesota. She was one of 10 scholars from around the world to participate in a think tank to reimagine Buttimer Institute, one of the most intensive formation experiences for Lasallian educators. Seebach lives in her dream house on the Minnesota bluffs with her two dogs.

1983

Steve Gorin, LA83, LW86, an attorney with Thompson Coburn, was named 2021 Lawyer of the Year in information tax law by *The Best Lawyers in America*.

Paul E. Obrock, DE83, earned the Academy of General Dentistry's 2020 Lifelong Learning and Service Recognition award for his commitment to lifelong learning, volunteerism and mentoring, and participation in organized dentistry. The AGD has tapped only 352 dentists for this award in its 68-year history.

David Rubenstein, EN83, is self-employed in the aeronautical engineering field and is married to **Debra Levine**, BU83.

1984

Ali Hossaini, LA84, was promoted to visiting senior research fellow in the Department of Engineering at King's College London. In this role, Hossaini serves as co-director of National Gallery X, which he co-founded in 2019.

Alan C. Peterson, DE84, a captain in the U.S. Public Health Service, is the chief dental officer for the Department of Justice Federal Bureau of Prisons at the Atlanta Federal Penitentiary. Peterson has been a volunteer dentist for Zoo Atlanta, providing dental services to the animals, for two decades.

1985

Wendi Alper-Pressman, LW85, was named to Lawdragon's 2020 list of 500 Leading U.S. Bankruptcy & Restructuring Lawyers. A partner with Lathrop GPM, Alper-Pressman has represented financial institutions of all sizes for more than 35 years.

Sanford J. Boxerman, BU85, a Capes Sokol shareholder, was selected to the *Missouri Lawyers Weekly* 2020 POWER 30 List for White Collar Defense. Boxerman was also named a fellow of the American Bar Foundation.

Daniel Smith, LA85, joined Under Armour as an attorney and is handling technology-based transactions. He writes that he's working from home due to COVID-19 and is counting on the pros at the WashU medical school to help solve the pandemic, so he can work in his new office.

1986

Margaret Reyes Dempsey, LA86, wrote a second novel, a psychological thriller titled *Mind Games* (Kingsbrook Publishing, 2020). Dempsey lives in Jackson Heights, N.Y., with her husband and cat. Website: www.MargaretReyesDempsey.com

Randi Morrison, LA86, LW89, was named senior vice president, communications, member engagement and general counsel with the New York-based Society for Corporate Governance. Morrison has served in various capacities with the society since 2013. She lives in Hawaii with her husband and works remotely.

1987

Robert "Bob" Berlin, LW87, a prosecutor for 33 years, was re-elected state's attorney of DuPage County, Ill., in November 2020. He was also re-elected as a Republican precinct committeeman.

1988

Rebecca Brandau, LW88, re-established her solo law practice in her home state of Ohio. She specializes in intellectual property

transactional matters, including mechanical patents, trademarks and copyrights. Website: www.brandaulaw.com

Diane Schmidt, GR88, updated and revised *Writing in Political Science: A Practical Guide* (Routledge, 2019), which is now in its fifth edition.

Robert D. Schollmeyer, LW88, retired as an associate circuit judge from the 20th Judicial Circuit Court in Missouri and began working as a chief senior assistant district attorney in Fulton County, Ga., focusing on police shooting cases.

1989

Chris Knoepfle, EN89, self-published *Dice or Die: Investigations into a Fantasy Campaign Milieu* (World Audiences Inc., 2020). The book takes a plunge into a productive fantasy campaign milieu discussion and features an in-depth, eclectic examination of classes, denizens, communities, milieu, campaigns and more.

Lynne (Rubenstein) Sorkin, AR89, GA91, joined the Chicago office of FGM Architects as principal, working on the firm's PK-12 school design team. Previously, Sorkin was director of the education practice for bKL Architecture and an owner's representative for large, multiyear capital improvement programs.

Greg Stewart, GM89, is senior vice president of scientific affairs at Sio Gene Therapies (formerly Axovant), in New York City, supporting the development of gene therapy for neurological disorders.

Julia Weber, LA89, SW94, LW94, is implementation director with Giffords Law Center to Prevent Gun Violence and teaches domestic violence law at Golden Gate University School of Law. Weber recently co-authored "Dramatic Spike in Firearm Sales During COVID-19 Endangers Survivors," which appeared in *Family & Intimate Partner Violence Quarterly*. She lives in San Francisco with her partner, **Charles Fineberg**, EN87, EN87, and son, Zach, a college sophomore.

1990

Doug Isenberg, LA90, an attorney at law with the GigaLaw Firm, was appointed to the Hong Kong International Arbitration Centre's domain name dispute resolution panel. Isenberg continues serving as a domain name panelist for other Uniform Domain Name Dispute Resolution Policy providers, including the World Intellectual Property Organization.

Jeff Ross, LA90, was promoted to senior managing director-head of investments at Generate Capital, an investor in sustainability across energy, transportation, water, agriculture and waste-to-value. He is a frequent speaker on topics of sustainability, investing and technology. Ross lives in the San Francisco Bay Area with his wife, Mary, and three children.

1991

Risé Sanders-Weir, LA91, was an executive producer on "We Are Witnesses: Chicago," which was nominated for an Emmy in the News & Documentary-Outstanding New Approaches category. As part of The Marshall Project, the short-video series presented intimate portraits of Chicagoans touched by the criminal justice system. Website: www.themarshallproject.org/we-are-witnesses/chicago

Doug Sesnowitz, LA91, a partner at Ulmer & Berne LLP, was elected to the firm's management committee. Sesnowitz represents companies in a range of industries in complex corporate, commercial and financing matters.

1992

Martin S. Lee, LA92, LA92, was named chief marketing officer at Sport Clips Haircuts. Lee has more than 15 years of marketing experience with brands including SIRIUS XM Radio, Sears Holdings, Sleepy's and Shopko. He is on the advisory boards of The Perfect Game Foundation, College Scholar Foundation and Barrington Youth Baseball.

1993

Doug Lane, LW93, joined Global Compute Infrastructure as CFO and managing director. The company recently acquired a data center business in Poland, its first acquisition.

1994

Jalmeen (Makkar) Arora, LA94, is in private practice as a psychologist in Lafayette, Calif., specializing in the treatment of trauma and dissociative disorders.

Megan Flanagan, GR94, took a five-year hiatus from work to take care of family health matters. Now she is working part time as an editor with EditSprings as she pursues full-time work in the field of seismology. Flanagan writes that she is pleased with the support and encouragement she has received as she reboots her network of colleagues.

Meenakshi "Mini" Wadhwa, GR94, director of the School of Earth and Space Exploration at Arizona State University, was awarded the National Academy of Sciences (NAS) 2021 Lawrence Smith Medal, given every three years for recent original and meritorious investigations of meteoric bodies. According to NAS, "Wadhwa has deepened the world's understanding of the evolutionary history of the solar system through her significant contributions to the sciences of cosmochemistry, solar system chronology, meteoritics and trace element geochemistry. Her work has elevated the science and knowledge of the evolutionary history of the solar system, and she has advanced scientific understanding of the geologic history of Mars."



Mary Matthews 79
 Donald Mayberry 80
 Ginny McAllister 80
 Claretta McDaniel 78
 Carolyn McIntyre 80



During the spring of 1977, I watched, along with my Black friends, the miniseries *Roots*. It was an emotional, yet inspiring, experience. During the miniseries, I felt as if some people wanted to tip-toe around us because they feared that we were angry. We were, but we were also handling our emotions in productive ways.

“The following year, the *Holocaust* miniseries aired during the spring. Again, it was an emotional, yet inspiring, experience for me. I was able to find connection with my Jewish classmates, and we realized that both groups have similar historical experiences that have shaped our past, present and future.

“I am glad that I experienced both of these miniseries while I was a student at WashU. In light of recent events in our country, I wonder how much we need to continue to educate each other about experiences that impact the past, present and future of individuals, groups and our nation.”

CLARETTA MCDANIEL, AB '77 (second from right in a 1977 *Hatchet* yearbook photo)

(Photo: Courtesy Washington University Archives)

1995

Carlos Narváez-Hasfura, GL95, GL97, managing partner of Jurídicanh Abogados in Mexico, was recently named president of the Iberoamerican Association of Privacy Law.

Mark Pottinger, LA95, is associate professor of musicology and chair of the Department of Music and Theater at Manhattan College in New York City. The department recently implemented a new program in sound studies that combines the science of sound – acoustics, sound production and digital audio recording – with music theory and musicology.

1997

Ron Eisenstein, LA97, co-founded The Solas Group, which was recognized by Tableau Software as the leader in fundraising analytics. Solas presented with its client, University of California, Berkeley, which raised a school record of \$1B+ last year, at Tableau’s Higher Education Summit in December 2020.

Mark Pankoff, GA97, SI98, was promoted to executive vice president of the financial firm Wellington Shields & Co. In his free time, Pankoff and his wife, Rebecca, keep busy with their quartet of 5-year-old to 10-year-old children. In 2020 Pankoff coached his son’s squirt hockey team to a championship, lowered his golf handicap and mastered the fine art of creating French braids.

Deborah Patterson, HA97, was elected to the Oregon State Senate (District 10) in 2020 and named chair of the Senate Health Committee. Patterson writes that she is grateful to WashU for the opportunities she has had in health care over the years and is looking forward to this new challenge.

1998

Dianne Chong, SI98, was named to the inaugural class of the Women in Manufacturing Hall of Fame by the Women in Manufacturing Association. The inductees were chosen for their significant contributions to the advancement of women in manufacturing. Chong, who is retired from Boeing, is vice president of the board of directors of SME (formerly the Society of Manufacturing Engineers). [See pg. 46 for a profile on Chong.]

Jennifer Keefe, LA98, is executive director of Sheldrake Environmental Center, Larchmont, N.Y. Keefe writes that she is privileged to be a steward of a small piece of the natural resources that have provided much-needed solace and stimulation during the pandemic and increased our connectedness to the planet and each other.

Ivan Lujan, LA98, reached a major milestone in his career on July 1, 2020, when he was admitted to the PwC LLP partnership. An assurance partner based in the firm’s Raleigh, N.C., office, Lujan lives in the capital city with his wife, Melissa, and their daughters, Ema and Elyse.

David Sacks, LA98, recently launched Chicago-based Architectural Consulting & Forensics, PLL. The firm consults on enclosures for buildings as well as forensic investigation and repair design for existing buildings.

Karen Anne (Soberg) Wallach, BU98, completed her PhD in marketing at Emory University Goizueta Business School in spring 2021. Her research focused on the intersection of branding and corporate

social responsibility/sustainability. Prior to joining the doctoral program, Wallach worked in brand management, product development, advertising and market research.

1999

Michelle Hirschman, SW99, owner and operator of Hirschman Clinical Services, moved from Los Angeles to Kansas City, Mo., where she expanded her services. She writes that she is pleased to be closer to WashU and looks forward to doing collaborative work and creating internship and job opportunities for students.

2000

Andrew (“Drew”) Hinkes, LA00, co-authored the textbook *Digital Assets and Blockchain Technology: US Law and Regulation* (Edward Elgar Pub, 2020). The book examines the key legal and regulatory issues associated with the transformative field of digital assets and blockchain technology. Hinkes is an attorney with Carlton Fields in Miami.

2002

Brent Douglas, LA02, joined Hahn Loeser’s San Diego office as a partner. His practice focuses on employment compliance and litigation support to businesses.

Franci Fealk, LA02, and her husband, Michael Skolnick, welcomed a daughter, Molly Samantha, on Dec. 21, 2020. The family resides in Indianapolis. Fealk’s grandmother, **Louise Fealk**, LA70, and her aunts, **Michelle Fealk**, LA06, and **Susan Skolnick**, LA88, are also Washington University alumnae.

Avital Livny, LA02, penned *Trust and the Islamic Advantage: Religious-Based Movements in Turkey and the Muslim World* (Cambridge University Press, 2020), which is based on her dissertation research. She writes that she can see a clear thread from her course work at WashU to her research and teaching today. Livny is an assistant professor of political science at the University of Illinois at Urbana-Champaign.

2003

Deia Schlosberg, LA03, FA03, is film director/producer for Pale Blue Dot Media, a New York City-based film and media production company. She was the director, producer and cinematographer for *The Story of Plastic*, which aired on the Discovery Channel in April 2020.

2004

Abigail Dumes, LA04, authored *Divided Bodies: Lyme Disease, Contested Illness, and Evidence-Based Medicine* (Duke University Press, 2020). The book explores the Lyme disease controversy, shedding light on the relationship between contested illness and evidence-based medicine in the United States. Dumes is assistant professor of women's and gender studies at the University of Michigan.

Alexis (Bergman) Wintrob, LA04, tapped into her work in perfumery and forecasting global beauty and fragrance trends at Procter & Gamble to write and self-publish a children's book, *Za Za's Scent-Sational Super Power* (2020). She operates ADB Consulting, a strategy, trends and fragrance consultancy.

2005

Vincent Flewellen, SW05, chief diversity officer at Webster University, was selected by *St. Louis Business Journal* as a member of its 2020 Class of Diverse Business Leaders.

Shannon Puopolo, LA05, a stockholder in Henderson, Franklin, Starnes & Holt, P.A., was honored by *Business Observer* magazine, which named her to its 40 Under 40 list. Puopolo is chair of the law firm's hiring committee and focuses her practice on complex business litigation.

Nicholas Zagar, GF05, an associate broker with CARR, has completed over 1,000 real estate transactions since the start of his career. He works with landlords and commercial and health-care tenants in office and retail leasing, priding himself on his "design eye" and ability to guide clients from start to finish.

2006

Ashley Hairston Doughty, FA06, is an assistant professor of art at the University of Nevada, Las Vegas. Also a designer and storyteller, she incorporates socioeconomic, racial and gender-based issues in her work.

Anne (Newsome) Wynter, LA06, authored a children's book that will be released this fall: *Everybody in the Red Brick Building* (Balzer + Bray, October 2021). The picture book tells the story of an apartment building and the dynamic city sounds that awaken residents until soothing city sounds lull them back to sleep.

2007

Jennifer Gormley, LA07, is working in substance abuse prevention for a nonprofit in southwest Oklahoma. She has one son.

Donghoon Lee, EN07, EN07, SI07, is an assistant professor in the genetics and genomic sciences and the psychiatry departments at the Icahn School of Medicine at Mount Sinai. His research focuses on computational psychiatric genomics.

Joe Shumow, LA07, was selected for inclusion in the 2021 edition of *The Best Lawyers in America*. Shumow is a real estate attorney with Reinhart Boerner Van Deuren s.c., based in the firm's Madison, Wis., office.

2008

Adam Greenstein, EN08, was honored in November 2020 by the Washington, D.C., section of the Institute of Transportation Engineers, which tapped him for the Amy Polk and Selman Altun Young Professional of the Year Award.

2009

Jessica Kronstadt, LW09, became the 101st president of the Women Lawyers Association of Los Angeles. Her parents, The Hon. John Kronstadt and Justice Helen Bendix, administered the oath and swore her into office. The organization advocates for women attorneys, women judges, persons of color, the disadvantaged and the underrepresented in Southern California. Kronstadt is a deputy district attorney with the Los Angeles County District Attorney's office.

Lauren Kupersmith, LW09, SW09, shared news of the birth of a daughter, Kaycen Dalia. The family lives in the Washington, D.C., suburbs, where Kupersmith works as a federal prosecutor in the Department of Justice's Child Exploitation and Obscenity Section.

2010

Ekta Prakash Desai, GA10, was named partner, design lead and a top four leader at SchenkelShultz Architecture. She has been with the Orlando, Fla., firm since 2018.

Scott Friedman, LA10, and his wife, Lindsey, founded Tot Travel Kit to make family travel with infants and toddlers easier. Tot Travel Kit delivers the supplies tots need — including diapers, toiletries, snacks and toys — to families wherever they are staying. Website: <https://TotTravelKit.com>

Nicolas Novick Goldstein, LA10, is a resident physician at Children's Hospital of Philadelphia.

Mark Hikin, LW10, GB10, recently joined Alexandria Real Estate Equities, Inc., as vice president-real estate legal affairs.

Matthew Mangini, LA10, completed an orthopaedic surgery residency at San Antonio Uniformed Services Health Education Consortium in San Antonio, Texas, and is serving on active duty for the U.S. Army as an orthopaedic surgeon at William Beaumont Army Medical Center in El Paso, Texas.

Lauren (Downing) Peters, LA10, is an assistant professor of fashion studies at Columbia College Chicago.

Anna Spelman, LA10, is a documentary filmmaker and video journalist working with outlets Al Jazeera, *TIME*, Univision and Bleacher Report. She is passionate about working with people who can help her relate stories about the lives and challenges of the LGBTQ and immigrant communities. Website: www.annaclarespelman.com

Dennis Sweeney, LA10, earned a PhD in creative writing from the University of Denver in June 2020. His debut collection of poetry, *In the Antarctic Circle*, won the Autumn House Rising Writer Prize and was published by Autumn House Press in March 2021.

Brian Weidenbaum, BU10, is a software engineer at Google.

Jessica Wilson, LA10, is a resident physician in radiation oncology at the University of North Carolina School of Medicine.

2011

Karan Johar, HS11, self-published *Fighting Chronic Pain: Bring LIFE Back to Your YEARS* (2020). The book describes a multidisciplinary approach to care for chronic pain — including physical therapy, home exercise and medication — that educates and engages the patient. Johar is the medical director at Park Avenue Glow Medical Spa and Park Avenue Aesthetic Institute and Surgery Pavilion.

Ari Kahn, EN11, is a postdoctoral researcher at Princeton Neuroscience Institute.

Catherine (Graham) Sibley, FA11, illustrated her first children's book, *Ruth's River Dreams* (Missouri Historical Society Press, 2020). The book introduces early readers to Ruth Ferris, a steward of St. Louis' maritime heritage who became captivated by the Mississippi River as a child. Sibley lives in Wisconsin, where she works as an artist and illustrator.

2012

Ruth Arcos, SW12, is an adviser and multicultural student success coordinator at the University of Wisconsin-Milwaukee.

Savannah Dodd, LA12, was selected as one of the UK's most inspirational female

entrepreneurs by Small Business Britain's #also campaign. Dodd is the founder of Photography Ethics Centre, a social business enterprise that raises awareness about the ethics of taking and sharing photographs. The center offers online training for individuals, workshops for academic and art institutions, and consulting services for media and international development organizations. Website: <https://www.photoethics.org>

Robert Ling III, EN12, is an associate attorney at Shook, Hardy & Bacon L.L.P., based in the firm's Seattle office.

Ellen Mell, GB12, LW14, an adjunct professor in WashU's McKelvey School of Engineering, was featured in an *Authority Magazine* piece on inspirational women leaders in tech. Mell is also the CEO of Custom Technologies, an engineering and manufacturing business that provides holistic product development, manufacturing and business services.

Jason Schwartzman, LA12, authored *No One You Know: Strangers and the Stories We Tell* (Outpost19 Books, May 2021). The book is about Schwartzman's everyday interactions with strangers during a lonely and difficult year. From taxi dispatchers to aquarium attendants, drifters to neighbors, exes to siblings, Schwartzman captures the space between people, distilling the turning point when strangers become intimates. His essays and stories have appeared in *The New York Times*, *New York Magazine* and many other media outlets.

Jeffrey Whitford, PMBA12, was named to *Fast Company's* 2020 list of Most Creative People in Business, which honors leaders from a range of industries. Whitford was selected for his development of programs designed to enhance MilliporeSigma's position as a global leader in green chemistry. These efforts include launching Cyrene, a bio-derived solvent; DOZN, a quantitative green chemistry evaluator; and SMASH Packaging, a packaging reduction initiative.

Brenda (Lagunas) Wiley, LA12, is a licensed clinical psychologist focusing on autism evaluations at Westside Children's Therapy, in the Chicago suburbs. The pediatric clinic offers speech, occupational and physical therapy, and counseling and feeding therapies.

2013

Joe Craig, BU13, EN13, has joined Erise IP as an associate attorney. Craig is an intellectual property attorney with experience in patents, copyright, trademarks and trade secrets. He focuses on issues related to the creation, protection and monetization of software and related technology. Prior to his legal career, he worked as a technology consultant and software developer. This background provides him with a perspective to better assist clients in complex intellectual property matters. Website: <https://eriseip.com/joe-craig>

Joshua Holter, LA13, is an associate scientist at Sangamo Therapeutics, a global genomic medicine company with offices in the United States, France and the United Kingdom.

Michael Offerman, AR13, GB13, and **Tripp Brockway III**, LA12, launched a social-good company called Caregather — a free caregiving support tool that helps patients and their caregivers connect to an extended network of family and friends who can send support from afar. The tool has been especially helpful to patients facing a COVID-19 diagnosis.

2014

Katherine Drummond, LA14, is artistic director of Dacha Theatre, a Seattle company specializing in devised, playful and immersive work, including new forms of theater such as virtual performances. Drummond has also performed in productions and teaches for several organizations, including Seattle Children's Theatre and Bainbridge Performing Arts. Website: dachatheatre.com

Nicola Zanchi, LA14, and **Will Nocka**, EN15, were engaged in Mazama, Wash., on Oct. 25, 2020. They live and work in Seattle.

2015

Jack Krewson, LA15, founded St. Louis' first personalized learning middle school, Kairos Academies, which launched in the Dutchtown neighborhood of the city in 2019. Kairos' approach to student choice and self-direction was highlighted by *Forbes* as one of the country's most innovative educational models to prepare kids for the 21st century. Krewson is working to grow enrollment to multiple schools in St. Louis.

Nicholas Lane, EMBA15, celebrated the second anniversary of the launch of his private investment firm, Pilot Equity, in Greensboro, N.C., in April.

2016

Celia Hensey, LA16, began a master of landscape architecture program at the University of Oregon in fall 2020.

2018

Allen Adrian, PMBA18, acquired Landmark Sign, a full-service commercial signage company in Chesterfield, Mo., serving the St. Louis metro area. The company offers project management, consulting, design, service and installation.

Natalie Edwards, LA18, continues to live in Rome, where she teaches a ninth-grade course on the city's history and co-directs the boarding program at St. Stephen's School, an international high school. Edwards is pursuing a master's degree in sustainable cultural heritage at the American University of Rome.

Wesley Ou, GB18, is a corporate financial analyst at TBWA Worldwide, an international advertising firm headquartered in Midtown Manhattan, New York City.

Surgene Troost, GB18, GA18, a licensed architect, was promoted to associate at Populous in Kansas City, Mo.

2019

Clara Germani, GR19, is a senior editor and writing coach at *The Christian Science Monitor*, working remotely from Laguna Beach, Calif. During the 2019-20 school year, she was a visiting professor of journalism at Principia College, Elmhurst, Ill.

Kara Moore, SW19, is director of community development at TOCO Shop & Pantry, Belleville, Ill. Through referrals from community members, schools, churches and service agencies, TOCO Shop & Pantry provides subsidized and free material support (clothing, shoes and houseware) to families.

Ethan Wiseman, LA19, is a remote field organizer for the Minnesota Democratic Farmer-Labor Party.

2020

Somara Cidoine, GL20, is a paralegal at an immigration law firm based in Miami. She has applied for the Washington State bar for foreign lawyers.

Daniel Hebert, GL20, joined the faculty of SUNY Polytechnic Institute's College of Business, focusing primarily in the areas of business law and taxation.

Margaret Hua, LA20, is a volunteer coordinator for St. Louis Food Angels, a local nonprofit organization led by students at the WashU medical school. Volunteers pack and deliver free meals to underserved or homebound people across the St. Louis region who either can't afford meals or can't shop at a grocery store due to the COVID-19 pandemic. Volunteers are always welcome.

Yi Kang, GL20, regional counsel with Autodesk, has worked as a lawyer for more than 13 years, splitting his time between the United States and China. He works in software licensing, IP enforcement and the cloud computing industry in China. Among his activities in the United States, he serves as an Alumni Ambassador, helping WashU law school students achieve academic and professional success.

Aidan Lisker, LA20, earned a master's degree in social work from WashU's Brown School in May.

Ethan Weiner, LA20, is a graduate student at the University of Wisconsin-Madison.

2021

Micah Dunlap, GM21, is a senior research scientist for Pfizer, working at the company's vaccine research and development center in Pearl River, N.Y.



Dorothy Elliott (center) was founding assistant director of the John B. Ervin Scholars Program. Here, she is pictured with Clara McLeod (left), wife of the late James E. McLeod who founded the program, and Robyn S. Hadley (right), the former director of the program.

Dorothy Elliott, founding assistant director of the John B. Ervin Scholars Program, died Jan. 24, 2021. She was 84.

The late James E. McLeod, vice chancellor for students and dean of the College of Arts & Sciences, started the Ervin Scholars Program in 1987. Originally, it was a scholarship for Black students committed to academic excellence, leadership, service and diversity. Now it is open to students of all backgrounds.

Elliott was with the program from the start and acted as a sounding board, champion and second mother to many cohorts of Ervin Scholars.

“So many of us have leaned on her over the years,” says Michelle Purdy, associate professor of education in Arts & Sciences and a graduate of the program. Purdy called Elliott every Mother’s Day. “She celebrated our happiest moments, sending birthday cards and baby gifts and attending alumni weddings. And she was there for our saddest moments. When my father passed, she and her sister drove to Mississippi for the service. That meant the world to me.”

Elliott studied at what is now known as Harris–Stowe State University under John B. Ervin, a nationally renowned educator and the first African American dean of the School of Continuing Education at Washington University. She went on to serve as an elementary school teacher for 21 years in St. Louis Public Schools and the Maplewood Richmond Heights School District before she came to WashU in 1984 as an admissions counselor.

Wilmetta Toliver-Diallo, who served as the Ervin Scholars Program’s interim director and is assistant dean in Arts & Sciences, recalls how Elliott enjoyed meeting with parents, reassuring them that their children would be supported. She made sure students had a ride to the airport, a fan to cheer them during games and performances, and opportunities to explore St. Louis.

“You often hear that phrase, ‘It’s the little things,’” Toliver–Diallo says. “Mrs. E personified what that meant. Every day, I try to put into practice what Mrs. E taught me.”

Carl H. Barthold, BSBA ’48, a World War II veteran and long-time employee of Southwestern Bell Telephone, died March 21, 2021. He was 98 years old.

Barthold entered Washington University in the fall of 1941 but left school when he enlisted in the Army Air Corps Cadet Program in 1942. After participating in 30 combat missions, Barthold was awarded the Distinguished Flying Cross and the Air Medal with Silver Oak Leaf Cluster. He was discharged in 1945 and returned to the university.

Barthold worked for Southwestern Bell Telephone, later AT&T, for 37 years before retiring in 1985. He was also heavily involved

in scouting, and the Boy Scouts of America, Greater St. Louis Council awarded him the Silver Beaver Award in 1974.

William M. Boothby, professor emeritus of mathematics in Arts & Sciences, died Feb. 14, 2021, in Nashville, Tenn. He was 102.

Boothby became a professor at Washington University in 1959. He was also a principal investigator for a large Office of Naval Research grant that supported research in geometry and harmonic analysis at the university.

In 1975, Boothby published his popular textbook, *An Introduction to Differentiable*

Manifolds and Riemannian Geometry. The book defined the curriculum and standards of introductory graduate differential geometry courses worldwide for the next 25 years.

Boothby’s research interests became more applied from the mid-1970s on. He focused primarily on control theory and collaborated with engineers to publish many papers in this area in the decade preceding his retirement in 1988.

Lawrence Coben, MD, who with his colleagues at the School of Medicine developed a widely used scale that characterizes and tracks impairment in dementia patients, died of cancer Oct. 7, 2020. He was 94.

Coben was an associate professor emeritus of neurology at the university. He retired in 1991.

Coben came to the School of Medicine in 1954 as an intern and completed his internship, residency and fellowship at the school before joining the neurology faculty in 1961. In 1979, he helped establish the Memory and Aging Project, one of the earliest studies of what was then known as senile dementia and is today called Alzheimer’s disease.

Michael W. Friedlander, professor emeritus in Arts & Sciences, died April 29, 2021, in St. Louis. He was 92.

Friedlander came to Washington University in 1956 to work on creating a cosmic ray laboratory. He became a full professor at the university in 1967.

Friedlander’s research concerned cosmic rays and related infrared and gamma ray astronomy, and he was an original member of the McDonnell Center for the Space Sciences.

He was active with the Faculty Senate, oversaw the Crow Observatory for several decades and was beloved by his students. He also was the president of the local chapter of the American Association of University Professors (AAUP) and vice president of the national AAUP.

Friedlander was also an active member of the Committee for Nuclear Information, which – through its Baby Tooth Survey – advocated for the above-ground Nuclear Test Ban Treaty of 1963.

He initiated a lecture series for the St. Louis community, the Saturday Science Public Lectures, which continues to this day. Friedlander also wrote several textbooks and some books aimed at a general audience.

Michael Evan Hughes, a neuroscientist and chronobiologist highly respected for his research at the School of Medicine, died May 4, 2021, after a six-year battle with brain cancer. He was 41.

Hughes was an assistant professor in the Division of Pulmonary and Critical Care Medicine. He opened a lab at the School of Medicine in 2017 and became an expert in circadian genomics, stemming from his research on the 24-hour sleep-wake cycle during health and diseased conditions.

He spearheaded efforts to establish standards for data collection, analysis and sharing in circadian biology and medicine. He collaborated with scientists nationwide

on initiatives that included respected studies of skeletal muscle biology and function in aging and chronic disease. He helped develop JTK Cycle, a widely used algorithm that collects large-scale genomic data on biological rhythms. Hughes also helped lead the Hope Center for Neurological Disorders Clocks & Sleep Club, which promotes research on biological cycles and sleep in neurodegenerative disease.

Hughes is survived by his wife, Jing Hughes, MD, PhD, assistant professor in the Division of Endocrinology, Metabolism & Lipid Research, and daughters Sophie, 12; Quinn, 9; and Carolyn, 6.

Larry J. Johnson, a radiation safety specialist in the Office of Environmental Health & Safety, died of a heart attack at his home on April 2, 2021. He was 68.

Johnson joined the university staff in 1970 and worked as an animal caretaker for seven years before moving to a position in radiation safety. He retired in 2019, but he returned to the university part time in July 2019 to assist the radiation safety team.

Johnson fell in love with St. Louis when he was younger after visiting family for the holidays. Determined to find work in the city, he was sent on interviews by the unemployment office. After his interview at WashU, he never looked back.

"Larry was a loved and valued member of our community," says Dedric Carter, vice chancellor for operations and technology transfer. "Known by some as 'Mr. Sunshine,' he brought an energy into the room and had a passion for his work at Washington University."

Charles J. Kilo, MD, a former professor of clinical medicine in the Division of Endocrinology, Metabolism & Lipid Research at the School of Medicine, died of pneumonia on March 15, 2021. He was 94.

Kilo and collaborators at the School of Medicine were among the first to demonstrate that diabetes complications are linked to the duration of the disease and the degree of blood sugar control. An early advocate for aggressive monitoring and control of blood glucose, Kilo challenged past treatment methods and the safety of blood glucose-lowering agents. He pushed for regular tracking of glucose levels in the blood. In subsequent years, measurement of so-called hemoglobin A1c became the standard in diabetes care.

Karen Sue Lipschultz Knopf, JD '80, former in-house counsel for Monsanto and Solutia Inc., died Feb. 17, 2021, after a long struggle with Parkinson's disease. She was 78.

Knopf married in 1964 and worked as a teacher to support her husband through medical school. She was then a stay-at-home mom until she entered law school in 1977, graduating with the highest grade-point average in the school's history, despite being a busy mom.

She clerked for a judge in the U.S. District Court and then joined Monsanto as in-house counsel. She later worked for Solutia Inc., before retiring in 2006. She was also active in the community, serving as a PTA president at her children's school and president of Temple Israel from 1996 to 1998. She

also supported the St. Louis Symphony Orchestra and Opera Theatre of Saint Louis.

Wellington Hamilton McDougal Lemmer, MSW '95, a veteran and social worker, died, on his birthday, Feb. 17, 2021. He was 74.

Lemmer served in the Vietnam War in the U.S. Marine Corps. When he completed his military service, he worked with the VISTA Corps and the Disabled Veteran Outreach Program through the Illinois Department of Employment Security. He also worked as a law enforcement officer. In 1995, Lemmer earned a master's degree in social work. He worked at the Illinois Department of Children and Family Services as an investigator and supervisor prior to his retirement.

Leah C. Lorendo, adjunct instructor in the McKelvey School of Engineering, died Feb. 23, 2021, from complications of cancer. She was 66.

Lorendo co-taught the graduate course in public speaking, "Communication Excellence for Influential Leadership," with Thomas Gregory, her longtime business partner and friend. The course was highly praised, particularly by international students. She also taught leadership, speaking, writing and presentation skills through the Technology & Leadership Center.

"Leah helped our WashU engineering graduate students fulfill one of our most fundamental needs: the desire to be heard and understood," says Peggy Matson, program director and professor of practice at the Sever Institute. "She did it with great skill, inclusivity, love and grace. Leah has left her mark on hundreds of our next generation of leaders. We will all miss her dearly."

Palghat Ramachandran, professor of energy, environmental and chemical engineering at the McKelvey School of Engineering, died in his sleep March 18, 2021. He was 75.

Ramachandran joined the faculty in 1982. His classes focused on reaction engineering, semiconductor material processing analysis and pollution prevention in chemical processes. Ramachandran worked extensively on modeling and analysis of multiphase reactors as applied to the chemical and pharmaceutical industries. Over the course of his career, he published 200 papers in refereed journals, as well as four books and several monographs.

"I was thrilled to be his colleague in the department these past five years, during which time I have learned a lot from him," says Vijay Ramani, the Roma B. & Raymond H. Wittcoff Distinguished University Professor in the Department of Energy, Environmental & Chemical Engineering. "He was a wonderful teacher, mentor and friend, who could speak with authority on a diversity of topics. He was an outstanding chemical engineer."

Please submit full obituaries for consideration to earlyr@wustl.edu.

The following death notices were submitted between Dec. 1, 2020 and March 31, 2021. Please contact Development Services at ADDDataRequests@wustl.edu to report an alumni death.

1940-1949

Leonard Leight, LA42, MD45; March '21
Elmarie (Reese) Meyer, LA44; Jan. '21
Marian (Spielloch) Sachs, FA44; Dec. '20
Betty (Geren) Uzman, MD45; Dec. '20
Robert H. Barkelew, DE46; Aug. '20
MacDonald Bonebrake, MD46; Feb. '21
Peggy (Gruppe) Ericson, NU46; Dec. '20
Charles D. Cohen, LA47; Dec. '20
Virginia (Kurth) Jensen, LA47; Dec. '20
Richard R. Murphey, LA47; Sept. '20
Jean (Whitehouse) Waldemer, LA47, GR48; Jan. '21
Leslie R. Axelrod, EN48; Feb. '21
Carl H. Barthold, BU48; March '21
John D. Davidson, LA48, MD52, HS55; Jan. '21
Betty (Worsham) Dirks, NU48; Jan. '21
Jean (Hoerr) Greenlaw, FA48; Feb. '21
Velva (Vaninger) McGavock, NU48; Jan. '21
Betty (Widmer) Salisbury, LA48; March '21
Charles E. Eberle, EN49; March '21
Francis J. Foley, BU49; Dec. '20
Harry H. Hayashi, LA49; Dec. '20
Frances (Jackson) Kampschmidt, FA49; March '21
Donald I. Malter, EN49; Dec. '20
Louis J. Mirjanich, BU49; Feb. '21
Sydney R. Pollack, EN49; Jan. '21

1950-1959

Stanley F. Abrams, BU50; Feb. '21
H. Lee Brintnall, BU50; Jan. '21
Kenneth R. Chatten, BU50; Jan. '21
Carl J. Deutsch, EN50; Feb. '21
Evelyn M. (Schroer) Kroehler, OT50; Feb. '21
Louis Myers, FA50; Jan. '21
Jan (Nicholas) Nelson, LA50; Dec. '20
Billy E. Rikard, BU50; Dec. '20
Peggy (Grosberg) Ross, LA50; Jan. '21
Carol (Dubard) Roth, BU50; Jan. '21
Richard A. Roth, BU50; Jan. '21
Jane (Stewart) Sawyer, NU50; Feb. '21
Charles E. Thomas, LA50, GR61; Feb. '21
George Vass, LA50; Dec. '20
Dorlene (Lauferksi) Alaynick, BU51; Jan. '21
William R. Cheek, MD51; Jan. '21
Bob H. Fauser, UC51; Jan. '21
Wayne Hood, LA51; Dec. '20
Esther (Salzberg) Langsam, BU51; Feb. '21
Jerome S. Levy, BU51; Jan. '21
Guy W. Marsh, FA51; Dec. '20
Jean (Leotta) Olson, SW51, SW60; Jan. '21
Paul R. Beach, GR52; March '21
Arlan P. Cohn, LA52, HS58; Jan. '21
William P. Cole, LA52; Jan. '21
Dorothy L. Connelly, UC52; Feb. '21
Norman Kling, EN52; Jan. '21
Brent M. Parker, MD52; Feb. '21
Charles F. Raikes, LA52; Dec. '20
John W. Roerman, EN52; Jan. '21
James P. Torma, BU52; Dec. '20
William J. Voos, FA52; Jan. '21
Bernard C. Brinker, LA53, LW55; Feb. '21
Helen (Ferguson) Crockett, PT53; March '21
Robert A. Donovan, GR53; March '21
Doris (Wylder) Findlay, LA53; Dec. '20

Wilbur R. Gregory, PT53; Feb. '21
Robert E. Kuhlman, LA53, MD56, HS59,
HS63, Jan. '21
Richard R. Russell, LW53; March '21
Theodore H. Seligson, AR53; Jan. '21
William E. Shoemake, DE53; Jan. '21
Irving J. Weigensberg, LA53, MD56; Dec. '20
James L. Amos, DE54; Feb. '21
Jack N. Gonz, BU54; March '21
Harold E. Tettambel, UC54; Dec. '20
Donald C. Grant, EN55; Feb. '21
Roger J. Meyer, MD55; Dec. '20
L. Juden Reed, LA55, MD59; Dec. '20
Donald L. Shrader, DE55; Feb. '21
W. Yates Trotter, MD55; Jan. '21
Stephen G. Dardick, BU56; Feb. '21
Luis Glaser, GR56; Dec. '20
Gene R. Hoefel, FA56; Dec. '20
Richard W. Hudgens, MD56; Dec. '20
Frank G. Kriz, EN56; Feb. '21
Robert J. McHugh, DE56; Jan. '21
F. Douglas Richmond, LA56, EN60; Feb. '21
Richard A. White, BU56; Feb. '21
Richard W. Arter, GB57; Jan. '21
Howard L. Finlay, BU57; Feb. '21
Robert L. Graham, LA57, GR66; March '21
David D. Hitchings, LA57, GR58; March '21
Carl E. Johnson, EN57; Dec. '20
Dick W. Johnson, BU57; Dec. '20
Carolyn (Kranson) Mandiman, LA57; Jan. '21
Robert M. Miller, EN57; March '21
William A. Moser, UC57; Feb. '21
Stanley I. Proctor, EN57, SI62, SI72; Jan. '21
Betsy (Gnau) Schapp, FA57; Jan. '21
William W. Taylor, MD57; Jan. '21
Norman J. Tice, BU57; Dec. '20
Donald G. Fritz, UC58; Dec. '20
Richard T. Haruki, DE58; Feb. '21
Alan F. Lazaroff, BU58; Jan. '21
Michael L. Posen, BU58, GB64; March '21
Jerry M. Powers, LA58; Jan. '21
Roy K. Warren, EN58, GR60; Feb. '21
Laura Allis-Richardson, LA59; Dec. '20
Herbert J. Gralnick, FA59; Feb. '21
Jewell Henderson, NU59, GN61; Dec. '20
Charles Kilo, MD59; March '21
Mary W. McKenzie, OT59; Dec. '20
Russell R. Nea, EN59; Dec. '20
Joseph D. Nolan, BU59, GR63; Dec. '20
Gerald F. Peppers, MD59; Jan. '21
Robert E. Perkins, EN59; Dec. '20
Alfred J. Rossi, EN59; Jan. '21
Jessie (Glover) Wilson, NU59; Dec. '20

1960-1969

Mary (Macnish) Godfrey, LA60; Dec. '20
Rhoda (Kottler) Gralnick, FA60; Dec. '20
Gordon B. Lowell, BU60; Jan. '21
James L. Facette, GR61; Dec. '20
Nelly (Magit) Grosswasser, GR61; Dec. '20
William J. Kennedy, LA61; March '21
John J. Meyer, EN61; Jan. '21
Mildred O. Mitchell, SW61; Jan. '21
Jack E. Weigle, LA61; Jan. '21
Stewart C. Wigginton, UC61; Jan. '21
Don L. Abeln, EN62; Jan. '21
Henry Beguelin, EN62; Dec. '20
Elynor (Keyser) Flegel, UC62, GR86; Jan. '21
Jon E. Gustafson, MD62, HS66; March '21
Arthur F. Kraatz, UC62; March '21
William L. Wall, DE62; March '21
Bruce M. Barack, LA63, MD68; Dec. '20
Richard H. Dowd, UC63; Jan. '21
Harriet (Hampton) Edwards, LA63; Dec. '20
Katherine P. Georgieff, GR63, GR73;
March '21

Martin E. Gorman Jr., AR63, AR65; Dec. '20
Alphonse G. Holtmann, GR63; Jan. '21
Royce W. Sykes, UC63; Dec. '20
Edwin K. Wisbrun, UC63; Jan. '21
R. Jon Bopp, LW64; Dec. '20
Alfred F. Hedrick, UC64; Jan. '21
Deanna (Dalzell) Heuermann, LA64;
March '21
Duane E. Hingst, GR64; Feb. '21
Darwin A. Novak, SI64, SI73; Dec. '20
Kenneth W. Cordes, TI65; Dec. '20
Thomas P. Dunne, EN65; Jan. '21
Robert F. Finley, UC65; March '21
Lawrence W. Hanlon, EN65; March '21
William E. Manz, TI65, TI79; Dec. '20
Donald A. Schweiss, FA65; Feb. '21
Irving C. Tang, SI65; Dec. '20
Jun M. Tanimoto, DE65; Feb. '21
Robert H. Allen, HS, MD66; Jan. '21
Thomas W. Alvey, LW66; March '21
Gerald J. Lipsinsky, UC66, UC79; Dec. '20
Ralph W. Patterson, EN66, SI69, SI72;
March '21
Trevor E. Thornton, UC66; March '21
Gayle (Jackson) Tienam, GR66; Feb. '21
Robert W. Kaps, BU67; Jan. '21
Ronald W. Oppenheim, GR67; Jan. '21
Ronald A. Venezia, SI67, SI71; Feb. '21
Paul H. Wunderlich, HA67; Dec. '20
Larry D. Bayliss, UC68, UC79, UC79; Jan. '21
Steven H. Carver, GF68; Jan. '21
Louis H. Ederington, GR68, GR72; Feb. '21
Vincent G. McGinnis, UC68; March '21
Don H. Stuerke, GB68; March '21
Kathleen (Moore) Thompson, FA68; Dec. '20
William L. Becker, LW69; Feb. '21
J. Charles Binder, AR69; Dec. '20
Joyce (Dubrov) Fox, LA69; Jan. '21
John V. Hanson, LW69; Jan. '21
Robert E. Hardester, UC69, UC69; March '21
Harold R. Scott, UC69; Dec. '20
Harrison Y. Smith, SW69; Jan. '21
Walter Spitzmiller, FA69; Dec. '20

1970-1979

Jack H. Harris, TI70; Feb. '21
James B. Harris, GB70; Dec. '20
Curtis E. Oliver, UC70; March '21
Nadja (Pershe) Teschner, LA70; Feb. '21
Albert R. Cummings, SI71; Feb. '21
Gary C. Nelling, AR71, GA74; Jan. '21
William M. Walker, UC71; Feb. '21
Mary (Finley) Williams, SW71; March '21
Richard D. Korte, UC72; Jan. '21
Donald G. Dylewski, LA73; Jan. '21
Edward S. Hughes, GR73; Dec. '20
Donna M. Kitchen, SW73; Dec. '20
Frank P. Preissle, GB73; March '21
Frederick H. Utech, GR73; Feb. '21
Charles R. Willis, LW73; Jan. '21
Thomas C. Dimaria, GR74; March '21
Bruce F. Gamble, LA74; March '21
Linda C. Hess, EN74; March '21
Alicia K. Raffel, FA74; Feb. '21
Mark B. Edelstein, GR75, MD75; Jan. '21
Richard A. Eichenberger, GR75; Dec. '20
Mary Ann S. Herzwurm, FA75; March '21
Joseph H. Kuczka, EN75; Dec. '20
Robert M. Coughlin, LA76; March '21
Kenneth E. Atzert, TI77, TI78; Dec. '20
Robert H. Betts, GR77, SW80; Feb. '21
Roger D. Burlison, HA77; Dec. '20
Sandra L. Sokolik, UC78; Dec. '20
Jim D. Woolf, GR78; Dec. '20
Lyn (Bradney) Pickel, SW79; March '21

1980-1989

Karen (Lipschultz) Knopf, LW80; Feb. '21
Amy S. Newman, GR80, GR84; Jan. '21
John G. Saint, MD80; Feb. '21
Marcella M. Davis, GF81; Dec. '20
Jackie Messmer-Wilberg, SW81; March '21
Jack E. Oglander, LA81; Jan. '21
Phyllis R. Brunson, GR82; March '21
Eric G. Dinyer, FA82; Feb. '21
Beverly Logan-Morrison, MD82; Feb. '21
Mary (Buckmer) Slais, UC82; Jan. '21
Aaron S. Dubin, LW83; Dec. '20
Robert J. Eskridge, EN83; Dec. '20
Ralph Hart, LW83; March '21
Evelyn A. Irving, SW83; Dec. '20
Leslie J. Waltke, GB83; Jan. '21
Steven P. Goetz, LA84; Feb. '21
Joseph H. Hempten, PMBA84; March '21
Stephen L. Harris, LA85, GR85; March '21
Warren H. Ogan, TI85; Dec. '20
Kelly A. Cowan, LA86; Dec. '20
James A. Brossia, TI87; Dec. '20
Richard A. Harmon, LW87; Feb. '21
William C. Hollifield, MD88, GM88; Feb. '21
Michael J. Pollock, GB89; Feb. '21

1990-1999

Paul L. Luchini, BU90; March '21
Jane Murdock-Amant, SW90; March '21
Janice (Schutt) Richmond, TI90; Feb. '21
Christopher J. Jackson, LA95; Oct. '20
Wellington H. Lemmer, SW95; Feb. '21
Donald L. Doggett, LW96; Feb. '21
Catherine J. Ehsani, UC97; Dec. '20

2000-2009

Daniel L. Popkin, MD04, GM04, HS08;
Jan. '21

2010-2019

Philip J. LeFevre, EMBA11; Feb. '21
George W. Mallinckrodt, LW11; Jan. '21
Matthew Nyman, EMBA17; Feb. '21

2020-2029

Megan A. Schulman, LA20, LA20; March '21



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Cross-campus running

Sportswear may go out of fashion, but running through the Danforth Campus (known as the Hilltop Campus prior to 2006) never seems to go out of style. In this 1976 archival photo, presumably members of the men's track team pass Graham Chapel during a run. (Photo: Courtesy Washington University Archives)



Bringing '20 back

More than 1,300 alumni and their families returned to campus May 30 to celebrate the university's 159th Commencement in person. On a beautiful Sunday, the university hosted three ceremonies, which allowed for safely welcoming any graduate who wanted to return. For more on the unprecedented celebration, visit commencement.wustl.edu.



Photo: Sid Hastings