Creative Journeys
Alumnus Francisco Moreno explores his identity through physical travel and inner exploration. PAGE 21
In the aftermath of the storm, there was still much work to be done.

PAGE 44
From the VP

Hello Mavericks! I am thrilled to join the UTA team as the vice president of the newly formed Division of Institutional Advancement. This configuration, a melding of the departments of University Communications and Development and Alumni Relations, signifies yet another milestone in the University’s immense growth and change. Our work will further position UTA as we set our sights firmly on the future growth and excellence of the University and Maverick leaders in the state, nation, and world.

Together, we will focus on furthering public understanding and recognition of UTA and its mission as a leading public research university. Equally important, we will continue to support and build strong relationships with our entire community, including students, alumni, community members, donors, media, parents, and friends.

President Karbhari’s vision for UTA to become the model 21st-century urban research university, coupled with the enthusiastic support that faculty, alumni, donors, and staff have for that vision, made it an easy choice to join this team.

The opportunity to work together to share UTA’s story with the world and help the institution achieve its aspirational goals is personally and professionally inspiring.

The comments and opinions expressed in this magazine do not necessarily represent those of The University of Texas at Arlington. An equal opportunity/affirmative action employer.

The University of Texas at Arlington
Magazine

Vol. XLII
Fall 2018

Editor
Amber Scott

Art Director
Stacy Price

Editorial Contributors
Herb Brook
Jessica Bridges
Sabrina Corrigan
Shawn Harris
Brent Ingram
Louisa Kelle
Janine Kimm
Teresa Kottmeyer
Toni White

Art Contributors
Melissa George
José Quintana

Digital Coordinators
Hillery Green
Holly Harris
Hanny Lee

Associate Vice President for Communications
Deborah "Dee" Robinson

Vice President for Institutional Advancement
Vishwas M. Karbhari

President
Teresa M. Lincoln

Copyright © 2018, The University of Texas at Arlington. An equal opportunity/affirmative action employer.

UTA is garnering accolades at a record pace. Here are just a few of the latest. To catch up with all of the University’s recent accomplishments, visit uta.edu/rankings.

UTA conferred 6,103 degrees in spring 2018, the largest in University history.

UTA was granted 23 U.S. patents in 2017, contributing to UT System’s No. 3 world ranking.

UTA jumped 16 spots nationally (to 150) in the 2018–19 Center for World University Rankings.

UTA is the largest producer of baccalaureate-degreed nurses in Texas.

For providing high social mobility and impactful research, UTA is ranked as one of the top 25 “leader” universities in the nation by the Brookings Institution.

U.S. News & World Report’s 2018 “Best Graduate Schools” rankings include more than 20 UTA graduate programs.

With 12 fellows of the National Academy of Inventors, UTA has the most in Texas and is in the top 10 in the nation.

The comments and opinions expressed in this magazine do not necessarily represent those of The University of Texas at Arlington. An equal opportunity/affirmative action employer.

The comments and opinions expressed in this magazine do not necessarily represent those of The University of Texas at Arlington. An equal opportunity/affirmative action employer.
Finals can be ruff, so each semester, we bring out some furry stress-relief experts to help. These little study buddies are trained therapy dogs that visit the basement of the Central Library for a few days during finals week. Students can take a paws from the books and soak up some puppy love before getting back to the business of acing their final tests of the semester.
SERVING OUR SERVICE MEMBERS

Over the next six years, according to estimates from the Student Veterans of America, the United States will see a 2 to 5 percent increase in veterans leaving the service to pursue higher education. Currently, UTA has between 4,000 to 5,000 military-connected students—nearly 10 percent of UTA’s total student population—taking courses at any given time.

“While fully capable and qualified, our student-veterans face unique challenges,” says James Kumm, executive director for Veteran Programs. Kumm is a combat veteran of the U.S. Army and a seasoned higher education administrator. “With such a large military-connected student population, UTA remains committed to welcoming and honoring military-connected families while providing resources to ensure their academic and career development success.”

Part of that readiness includes the creation of Kumm’s position, which was designed to coordinate and streamline veterans services; provide focus, vision, and leadership; and serve as a central point of contact for UTA’s student-veterans, faculty, staff, and the local community. Over the past year, Kumm has conducted an extensive evaluation of UTA’s veterans services and taken leadership of the Veterans Connection Committee, which explores and finds solutions for issues concerning student-veterans.

One of the immediate concerns the committee identified was the need for a centralized location for all UTA veteran-exclusive services. Action quickly followed, and work is underway to create a veterans service facility, a first-stop shop on campus for student-veterans. The grand opening is scheduled for spring 2019. In addition to housing all student-veteran services, the facility will include flex office space for visiting groups, a lounge and kitchen for studying and relaxing between classes, a small classroom for tutoring, and programming geared toward student-veteran integration, involvement, and academic and professional success.

“Our student-veterans continue to make sacrifices for our country. It is an honor to assist them when they choose to better themselves through higher education,” Kumm says. “Veteran Programs is proud to be part of a university that believes it isn’t enough to be simply veteran friendly—we must be veteran ready.”
**MAV ROUNDUP**

**UTA has received over $7 million in STARs grants since 2017.**

---

**GOLDEN APPLE**

**THE AWARD GOES TO**

Alvarana wore prestigious "Oscars of Teaching"

---

They call the Millen Educator Awards the "Oscars of Teaching," but the comparison only works if the nominees in any Oscar category exceed 300,000. In late 2017, those were the odds that Jennifer Fuller (‘93 MilEd, Teaching), an educator in the Arlington Independent School District, beat when she was named a Milken Educator. Of the 350,000-plus working public school teachers in Texas that year, Fuller was one of only two to receive the honor.

The Milken award, which recognizes teaching excellence, comes with a $25,000 prize. Since the program came to the state 18 years ago, only 50 teachers have received recognition. Two UTA graduates have previously won Milken awards. "The English and education classes I took at UTA have been instrumental in shaping the instructional strategies I now use with my classes," Fuller says. "Three of our Arlington Collegiate High School seniors are actually taking an education class at UTA right now, and I am excited to see them develop into incredible educators one day."

The Milken program was started in 1987 by the Milken Family Foundation to reward outstanding teachers for their tireless efforts to educate countless generations. Since its founding, the program has awarded more than $68 million to individuals across the country.

---

**FANTASTIC FELLOWS**

**Why graduate research fellowships matter**

A university’s success in innovation, science, and technology can be measured by the grants it receives. One prestigious recognition is the National Science Foundation (NSF) Graduate Research Fellowship Program (GRFP) award. The GRFP helps ensure science and engineering in the U.S. remain vital. The program recognizes and supports outstanding students in NSF-supported disciplines who are pursuing research-based graduate degrees at accredited universities. Past fellows have included Nobel Prize winners, Google founder Sergey Brin, and many others.

In the last five years, nine students at UTA have received this recognition, including Omomayowa Olawoyin, featured on the opposite page, and Marquette Herzog, featured on page 17. Other recipients include Troy Barber (‘16 MS), Kathleen Currie (genomics student), Lauren Fuesse (‘18 PhD), Laura Henderson (‘14 PhD), Sarah Hussein (aeronautical and aerospace engineering student), Kimberly Johnson (‘16 MA), and Danielle Evens (evolutionary biology student).

"Receiving this fellowship made me pause and think about how far I have come academically," Olawoyin says. "It also made me think about the responsibility that I have to make outstanding research contributions to my field of study."

---

**EXCELLENCE POINTS OF**

**TRAINING in Theoretical**

**Science Foundation Scholars Program, inves-**

---

"Receiving the NSF Graduate Research Fellowship award was such a blessing. It increased my motivation to do research and confirmed that I had something important to contribute to the scientific community.

Can you tell us more about your research experiences at UTA? My first research experience was through the UTTER [Undergraduate Training in Theoretical and Ecology Research] program. I thoroughly enjoyed UTTER because it opened my eyes to the versatility of mathematics. I also got the chance to present my research at numerous conferences, which polished my presentation skills.

I also conducted research in mathematics education through the McNair Scholars Program, investigating how teacher reactions to pivotal moments in instruction impacted the level of student discourse in elementary school mathematics classrooms.

As a graduate student, I’m doing research in mathematical biology and am developing mathematical models to describe the spread of diseases such as Zika.

To achieve what you have requires drive and determination. From where do you get those qualities? A lot of my drive comes from remembering my past and where I came from. My parents sacrificed quite a bit to bring me and my siblings from Nigeria to America in hopes of providing us with a better education. Their sacrifices motivate me to seek out and make the most of my educational opportunities.
The Dallas Business Journal named Kelly Davis ('84 BBA, Accounting), chief financial officer at UTA, the 2017 CFO of the Year in the large companies/not-for-profit category.

Paying the bills is a thankless job, but the UTA community recognizes the special talent it takes to run a tight financial ship. That’s because Davis does it so well. “Despite a reduction in state funding for the next biennium, UTA is continuing its trajectory without slowing down or increasing its debt service ratio, due to Davis’ expertise and foresight,” says President Vistasp Karbhari. “She has developed with great dexterity the structures and processes to enable record-setting growth in four distinct areas simultaneously—a growth in on-campus population, one of the largest online student bodies at any public research university in the nation, rapidly expanding research expenditures, and significant new construction.”

Davis has worked at the University for more than 20 years, starting as assistant director of accounting services and advancing to her current position as CFO and vice president. In addition to these roles, she also oversees University Analytics, the Office of Information Technology, and the Information Security Office.

Researchers take a closer look at blast-induced brain damage.

Ashfaq Adnan, associate professor of mechanical engineering, and his postdoctoral associate Yuan Ting Wu published research on traumatic brain injury in Nature’s Scientific Reports. Their work revealed that battlefield blasts may cause cavitation (tiny bubbles) in the brain’s perineuronal nets, which may collapse and cause neuronal damage.

Drs. Adnan and Wu studied the phenomenon through a simulated shock wave-induced cavitation collapse within the perineuronal net, which is a specialized extracellular matrix that stabilizes synapses in the brain. Their results show that the forces created by an asymmetrical bubble collapse may break the hyaluronan, the perineuronal net’s main structural component. The findings improve current understanding of the connection between damage to the perineuronal net and neurodegenerative disorders.

“Dr. Adnan’s findings offer important insight into how the brain is affected in combat scenarios,” says Duane Dimos, vice president for research. “Understanding the effects of blast injuries on the brain and knowing that cavitation occurs is an important step toward finding better ways to prevent traumatic brain injuries on the battlefield.”

Since 2015, UTA’s brain research team has brought in over $6 million in funding.
After starting his career in the Mediterranean region, Gideon wanted to turn his attention to local civic projects. In the late ’80s and early ’90s, Gideon helped develop several master plans to attract businesses and residents to downtown Fort Worth. He was also influential in several key projects in Fort Worth, including the Police and Firefighters Memorial in Trinity Park and the Intermodal Transportation Center. All of Gideon’s work has strategically elevated Fort Worth’s reputation as a remarkable place to live, work, and study.

It all began with a love for drawing.

“Early on, I came to appreciate the art of drawing, and I still hand draw plans and renderings,” he says. “The process and patience it takes to create a drawing that captures the subtleties of real life is something that I have always admired and respected.”

The meticulous attention to detail that makes an exceptional drawing also helped Gideon begin to understand the intricacies of city zoning. It’s part of the reason his career evolved from architecture to include urban planning.

Throughout this evolution, he developed a guiding principle to always give back to the community.

“I believe that a city’s reputation is as strong as the integrity of its citizens, and my business partner and I wanted to give back so much that we had to watch our bottom line closely,” he says. “I felt like it was our duty to give back whenever possible to make our community better.”

Gideon has made a difference in Fort Worth and he gives a portion of the credit to UTA.

“My architectural education at UTA was phenomenal,” he says. “It set the foundation for my professional career.”
We don’t often think about the vast infrastructure beneath our feet that provides our water—at least, not until something goes wrong. If civil engineering Associate Professor Melanie Sattler has her way, you won’t ever need to think about it at all.

Field Research: Manhole Corrosion
Arlington, Texas

Dr. Sattler, who is also the Syed Qasim Endowed Professor of Civil Engineering, leads a team of researchers including Victoria Chen, professor in the Department of Industrial, Manufacturing, and Systems Engineering, and Arpita Bhatt, civil engineering adjunct professor. They are a year into their three-year, $474,723 contract from the city of Arlington to inspect 350 concrete manhole shafts for corrosion and develop a method to prioritize which manholes need protection the most. The data collected will be used to help the city prioritize protection of more than 19,000 manholes.

WATER THREAT
Corrosion of manhole shafts can threaten the integrity of sanitary sewer mains and allow rain and other runoff from the surface to enter the wastewater system.

RECORD MAKERS
In addition to inspecting for possible corrosion, the team uses sensors to measure hydrogen sulfide, gas-phase relative humidity, and more.

SIZED UP
Each manhole is 4 to 5 feet in diameter and, in Arlington, can range from 4 to 45 feet tall.

DRAIN PAIN
Microbes in the sewer convert the hydrogen sulfide gas to sulfuric acid, which then corrodes the concrete. Sulfuric acid also corrodes the pipes adjacent to the manhole.

EXPLORE
Take a deep dive into Dr. Sattler’s research via an immersive 360-degree video experience. uta.edu/mag/scene
Crash Course

Maverick music-makers now have an outlet to explore the business side of the industry through the Department of Music’s new Record Label and Studio Management course. In this class, students help run UTA’s two record labels and manage every aspect of UTA’s recording studio.

“Record label management allows students to learn, develop, and participate in an active music industry environment,” says Jamar Jones, adjunct professor of music industry studies and instructor of the course. “The key is that they will walk away with real-world experience that could be valuable in the job market.”

UTA’s labels are UTA Records, which releases faculty members’ music, and UTA Records X, which is geared toward student-driven releases. UTA has released two albums on UTA Records, and the first release from UTA Records X is in the works. Money earned from the releases is put back into the labels.

“This course is a unique and cutting-edge experience for students,” says Dan Cavanagh, interim chair of the Department of Music. “The recording industry is in such transition now that students are actively participating in charting a course into the future for recorded music.”

The University of Texas at Arlington Magazine Fall 2018

Points Of Excellence

UTA hired 150 new faculty over the last three years.

Health in Sequence

New genome center advances health and the human condition

This spring, UTA, in partnership with the University of North Texas Health Science Center (UNTHSC), ushered in a new era of life and health science discovery in Texas with the opening of the North Texas Genome Center (NTGC). Housed in the new Science & Engineering Innovation & Research building, the NTGC provides massive DNA sequencing capability for regional biotech and medical research.

“The opening of this center is wonderful news for Tarrant County and will bring a real boost to our local economy,” says Arlington mayor Jeff Williams. “By bringing together UTA’s science, engineering, and mining expertise with the biomedical research experience of UNTHSC, this center will be able to produce innovative health solutions with a real positive impact on patients.”

The NTGC has already sequenced over 100 genomes. Researchers have taken steps to identify rare genetic variants underlying human diseases, identified genes and patterns of gene expression that may cause brain and nerve regeneration, and identified a link between ethnicity-specific expression of regulatory genes that may be important for personalized cancer treatment.

Integral to the NTGC’s work is developing partnerships with industry leaders to advance a unified mission of delivering genomics-based tools to local communities. So far, this has included working with researchers from institutions like UT Southwestern, the University of North Texas, Texas A&M University, and Illumina (the world leader in genome sequencing technology) and partnering with organizations such as Cook Children’s, Scottish Rite Hospital, and UNTHSC.

“Going forward, we will develop the NTGC as a hub to connect academic research with clinical medicine to catalyze discovery, innovative treatment, and personalized medicine that is relevant regionally and globally,” says Jon Weidanz, founding director of the center. “Our work could break down barriers to personalized and precision medicine related to the acquisition and analysis of big data genomics.”

ADVANCING KNOWLEDGE

Marqueter Herzog, a biology doctoral student at UTA, was awarded a prestigious National Science Foundation Graduate Research Fellowship to study the molecular genetic basis of changes in behavior seen when an individual loses during an aggressive conflict. For her research, Herzog plans to treat and sequence the DNA of beetles that lose fights and compare it to beetles that have not fought using an Illumina sequencing platform from the NTGC. “The North Texas Genome Center’s high-quality sequencing equipment will allow me to identify the genes and the proteins associated with the ‘loser’ effect and recovery,” she says. “By studying these genetic components of behavior, I will be able to provide answers not only for the biology of science, but also potentially for other disciplines such as psychology, sociology, environmental science, resource management, and education.”

left to right: Woodlawn, senior business major, Dave Hagedorn, associate professor of music, and Calderon, junior music media major, strums his guitar.

You can find the first student-driven release is put back into the labels.

EXPLORÉ

Explore You can find the first student-driven release is put back into the labels.

You can also listen to a student’s track at uta.edu/mag.
In Wobbles of the World, Kenyon Zimmer, Peter Cole, and David Struthers take a close look at Chicago’s Industrial Workers of the World, a union founded in 1905 that was united by evolutionary and internationalist philosophy and tactics.

Wobbles of the World: A Global History of the IWW
CO-EDITED BY KENYON ZIMMER, ASSOCIATE PROFESSOR, DEPARTMENT OF HISTORY
In Wobbles of the World, Kenyon Zimmer, Peter Cole, and David Struthers take a close look at Chicago’s Industrial Workers of the World, a union founded in 1905 that was united by evolutionary and internationalist philosophy and tactics.

Apple Black by Odunze Oguguo’s Apple Black series follows Sano, a young sorcerer raised and trained to be a sorcerer. The series follows Sano, a young sorcerer raised and trained to be a sorcerer. The series follows Sano, a young sorcerer raised and trained to be a sorcerer. Sano has been united by evolutionary and internationalist philosophy and tactics.

The Collected Works of Jupiter Hammon edited by Cedrick May’s The Collected Works of Jupiter Hammon offers a complete look at the literary achievements of Jupiter Hammon, one of the founders of African-American literature.

When Harry Dombroski ’79 BBA graduated from UTA, he knew he was more than ready to enter the workforce. Now, in his new role as dean of the College of Business, he is eager to ensure that every graduate leaves with the same level of preparedness.

“We are located in one of the largest and fastest-growing economies in the nation, and our College of Business needs to be right at the center of this growth,” says President Vistasp Karbhari. “Harry is a visionary leader who will raise the visibility of the college, enhance its stature among business leaders and help to serve our students with better opportunities as they graduate."

Dombroski’s extensive ties to corporations in the Metroplex and 50-plus years of experience in the corporate sector played key roles in his appointment. “Harry knows the desires of employers and how to match the rapid change of the industry,” says Ray Hunt, executive chairman of Hunt Consolidated. “Further, as a graduate of UTA, he has the ability to differentiate himself and UTA in the very competitive marketplace of higher education in North Texas."

In his role as dean, Dombroski looks forward to expanding UTA’s relationship with community partners and increasing student opportunities for internships and career entry. “The education that I received at UTA was the spark that fueled a long, reward- ing career,” Dombroski says. “I look forward to being able to pay that back to cur- rent UTA students and future graduates.”

The Nautilus Legacy by Lewis Crow's Lewis Crow uses the worlds created in 20,000 Leagues Under the Sea and The Mysterious Island to create an original new installment in the Nautilus Legacy series. Lewis Crow uses the worlds created in 20,000 Leagues Under the Sea and The Mysterious Island to create an original new installment in the Nautilus Legacy series. Lewis Crow uses the worlds created in 20,000 Leagues Under the Sea and The Mysterious Island to create an original new installment in the Nautilus Legacy series.

Fascinating books by Maverick authors to fill your library.

Wobbles of the World: A Global History of the IWW

CO-EDITED BY KENYON ZIMMER, ASSOCIATE PROFESSOR, DEPARTMENT OF HISTORY
In Wobbles of the World, Kenyon Zimmer, Peter Cole, and David Struthers take a close look at Chicago’s Industrial Workers of the World, a union founded in 1905 that was united by evolutionary and internationalist philosophy and tactics.
Journeys are important to Francisco Moreno (’10 BFA, Painting). Whether it’s a journey from place to place or past to present, he is interested in creating art that explores those transitions—and how they can come to define who we are. “As a Mexican-born American citizen, I pull from an archive that references ideas that traverse borders, an abstract allegory for my identity,” he says. With Chapel, which debuted at the Erin Cluley Gallery in Dallas, Moreno created an entire structure that brings these ideas together. Turn the page for a look inside.
Moreno’s Chapel was specifically inspired by a visit to the 12th-century mural paintings of the Hermitage of the Vera Cruz de Maderuelo. In 1947, the mural fresco paintings were transferred from their original location in the municipality of Maderuelo to canvas and reconstructed at the Prado Museum in Madrid. “The experience of the thoughtfully handpainted beauty was overwhelming,” he says. “The fact that the murals are displaced from their original location felt peculiarly familiar, as I have been perplexed by notions of identity since my family left Mexico City in order to relocate to Arlington.”

For Chapel, Moreno designed, constructed, and painted the interior of an all-encompassing 16-by-12-by-13-foot barrel-vaulted structure, which was inspired by Spanish Romanesque chapels. His focus was engaging the past while making a new mark, so the interior is filled not with religious iconography, but layered sketches that he described to The Dallas Morning News as a “giant drawing, a stream-of-consciousness collage.”

**THE ARTIST’S JOURNEY**

For Moreno, becoming an artist was also a journey largely shaped by his travels. As an undergraduate student in architecture at another Texas university, he was looking for a career path he could be passionate about. But architecture didn’t fit. He took an industrial design course at the Tec de Monterrey campus in Queretaro, Mexico, but that wasn’t quite right, either. He eventually transferred to UTA, where he took an intermediate painting class—and he never looked back.

“The faculty at UTA were very generous with their time, and the art studios are fantastic,” he says. “I’m glad I was able to find my way at UTA. It showed me I could really pursue the arts.”

Looking to the future, Moreno is willing to go wherever his creative pursuits may lead. “Right now, I’m just painting and drawing, thinking of new, crazy ideas,” he says. “Creativity is like anything else—you just have to put in the work.”
“Rock star.” That’s what UTA women’s associate head track and field coach Jordan Durham calls Alexus Henry.

With the way the senior mathematics major has made a habit of rising to the top of the charts, that’s a fitting description. Heading into her final season, Henry’s name is etched atop the UTA track and field record book in an astounding four different events—indoor high jump, outdoor high jump, indoor pentathlon, and outdoor heptathlon.

Earlier in the year, Henry grabbed second team All-America honors at the NCAA Indoor Championships. In June, she became the first UTA woman ever to win an individual national championship, taking the title in the women’s high jump at the 2018 NCAA Outdoor Track and Field Championships. She now holds more records than any other athlete in UTA history.

Henry’s talents go beyond the field as well. She has appeared on the Sun Belt Conference Academic Honor Roll and has been a UTA Texas Trust Scholar-Athlete recipient. In addition, she was named the MAVS 1000 Peer Leader of the Year in fall 2017 for her work with the seminar course that educates students on academic and personal skills, as well as engagement beyond the classroom.

“I’ve made such strong bonds here,” Henry says. “Your team becomes a family. They keep me motivated and positive. Coming out of high school, I knew I had to make the best decision for me—and I did.”

Teaching and coaching are her ultimate career goals, but immediately after graduation, Henry plans to take a leap of faith and attempt to compete professionally. Her sights are set on the 2020 Olympic Games in Tokyo, Japan.
The Lady Movin’ Mavs ended its historic 2017–18 season on a triumphant note. With a 65-55 point win over the University of Alabama, the wheelchair basketball team claimed its second national championship title in three years at the 2018 National Interscholastic Wheelchair Basketball Tournament. It was the pinnacle of a season in which the team compiled a 20-0 record. Elementary education senior Rose Hollerman was recognized as the tournament’s MVP after she led the team with 30 points and six rebounds.

“It’s always an honor to see that the coaches within our league recognize and respect the work I’ve put toward this game,” Hollerman says. “Everyone on our team plays for one another, and I know that’s why I received this award.” Hollerman’s teammates also scored big in the championship. Kinesiology senior Abigail Dunkin raked in 12 points and grabbed six rebounds, while graduate student Morgan Wood made the last shot of the game with 39 seconds left.

“We have the same core that has been in three of these big games now, and to see them go out there one last time and fight for another championship was very special,” says Head Coach Jason Nelms. “They have helped grow this program and built such a bright future for it, and the doors they are opening for future generations are countless.”

The Lady Movin’ Mavs ended its historic 2017–18 season on a triumphant note. With a 65-55 point win over the University of Alabama, the wheelchair basketball team claimed its second national championship title in three years at the 2018 National Interscholastic Wheelchair Basketball Tournament. It was the pinnacle of a season in which the team compiled a 20-0 record. Elementary education senior Rose Hollerman was recognized as the tournament’s MVP after she led the team with 30 points and six rebounds. “It’s always an honor to see that the coaches within our league recognize and respect the work I’ve put toward this game,” Hollerman says. “Everyone on our team plays for one another, and I know that’s why I received this award.” Hollerman’s teammates also scored big in the championship. Kinesiology senior Abigail Dunkin raked in 12 points and grabbed six rebounds, while graduate student Morgan Wood made the last shot of the game with 39 seconds left. “We have the same core that has been in three of these big games now, and to see them go out there one last time and fight for another championship was very special,” says Head Coach Jason Nelms. “They have helped grow this program and built such a bright future for it, and the doors they are opening for future generations are countless.”

The future looked bright for UTA women’s basketball when Cierra Johnson began her freshman year. She was part of a No. 1-ranked signing class, and analysts said it was likely that the team would make a run at the Sun Belt Conference title. Indeed, when Johnson’s senior year came, the team was picked No. 1 in the preseason polls. She was the reigning Defensive Player of the Year. Three games into the season, Johnson was on fire in the first quarter at UT San Antonio. She poured in 11 points and appeared unstoppable. But as she tried to come up with another steal, a Roadrunner knocked into her, ending her season with a knee injury. The team would finish the season third in the Sun Belt Conference.

Declared eligible for a medical red-shirt season, Johnson will step onto the court again in 2018-19, ready to make another run at the conference title. She is on pace to shatter UTA’s and the Sun Belt Conference’s all-time steals records, and she will have a go at becoming the 19th player in program history to join the 1,000-point club.

This year the No. 1-ranked signing class featuring two state champions, two state semifinalists, and a state tournament MVP will join Johnson in the quest for the title.

With the appointment of former Big 12 and Southeastern Conference Assistant Coach Chris Ogden, men’s basketball is poised to rise to the top in the 2018–19 season. He is the eighth head coach in the program’s nearly 60-year history.

A Texas native, Ogden played for Head Coach Rick Barnes at the University of Texas and served on his staff for a combined 13 seasons there and at the University of Tennessee. He spent the last two seasons as an assistant coach under Head Coach Chris Beard at Texas Tech University.

“Starting with his playing days, Chris has been a winner,” says Director of Intercollegiate Athletics Jim Baker. “I look forward to him continuing to guide our men’s basketball team to greater heights.”

In college, Ogden played in four straight NCAA championship tournaments and a Final Four. As a coach, he has been to numerous NCAA Tournaments, recruited some of the country’s top classes, and developed several NBA first-round draft picks. During his 15 years at UT Austin, Texas, and Texas Tech, Ogden helped lead teams to 11 total NCAA Tournament appearances, including three regional finals. “I am extremely honored to serve as the head men’s basketball coach at UTA,” Ogden says. “I have dreamed of having the opportunity to lead a program in my home state. UTA has an excellent reputation as a world-class institution, and I look forward to building on the program Coach Scott Cross developed.

We will operate this program in a manner that our supporters expect—with class, hard work, and success on and off the court.”

“Starting with his playing days, Chris has been a winner. I look forward to him helping us continue to guide our men’s basketball team to greater heights.”
The University you remember has changed, and it continues to evolve to meet the needs of our communities near and far. As a model 21st-century urban research university, it is what we are called to do.
The role of the public research institution is well-defined. In simple terms: Most public research universities are founded and operated by state government entities. As such, public universities must serve the public; as a result, they must be nimble and adaptable, growing and changing to meet the needs of their ever-evolving communities.

For The University of Texas at Arlington to be the model 21st-century public research university, we had to become a university of constant assessment and action. It’s an ongoing, daily process: We evaluate where we are, uncover the unique challenges our communities are facing, find solutions and put those solutions into action. We then share those solutions with the state, the nation, and the world. They are absolute imperatives that guide everything we do.

In the coming pages, we have gathered stories that bring these imperatives to life. The stories highlight how research conducted on our campus can have a transformative effect on cities near and far, and how UTA is solving some of society’s most pressing problems. They illustrate that in times of crisis, the work UTA does can provide relief to those who need it most. Through all the work we do, we ensure equal access to higher education for all students. Together, these stories reflect a university constantly at work, striving for excellence above all and setting the standard for other universities to follow.

E ven before UTA President Vistasp Karbhari took the helm in 2013, he made a bold claim: UTA was well on its way to becoming a model 21st-century urban research university. His role, he said, was to lead the University to the realization of that goal—and his objective is detailed in the University’s Strategic Plan 2020 Bold Solutions | Global Impact. Guided by the plan’s four broad themes—health and the human condition, sustainable urban communities, global environmental impact, and data-driven discovery—and bolstered by its guiding aspirations, the University has set a path to unprecedented excellence in research, teaching, and community engagement.

The role of the public research institution is well-defined. In simple terms: Most public research universities are founded and operated by state government entities. As such, public universities must serve the public; as a result, they must be nimble and adaptable, growing and changing to meet the needs of their ever-evolving communities.

For The University of Texas at Arlington to be the model 21st-century public research university, we had to become a university of constant assessment and action. It’s an ongoing, daily process: We evaluate where we are, uncover the unique challenges our communities are facing, find solutions and put those solutions into action. We then share those solutions with the state, the nation, and the world. They are absolute imperatives that guide everything we do.

In the coming pages, we have gathered stories that bring these imperatives to life. The stories highlight how research conducted on our campus can have a transformative effect on cities near and far, and how UTA is solving some of society’s most pressing problems. They illustrate that in times of crisis, the work UTA does can provide relief to those who need it most. Through all the work we do, we ensure equal access to higher education for all students. Together, these stories reflect a university constantly at work, striving for excellence above all and setting the standard for other universities to follow.

**MAKING THE MEGACITY p. 32**
As the Dallas-Fort Worth Metroplex approaches megacity status, UTA researchers are doing all they can to ensure that the region’s growth is sustainable. Their work has implications for growing cities worldwide.

**SOFTENING THE BLOW p. 44**
As Texas marks the first anniversary of Hurricane Harvey, we’re exploring UTA’s research and outreach before, during, and after the storm—work that helped ease the effects of Harvey and could help mitigate the impact of future storms.

**EXCELLENCE FOR ALL p. 38**
Public universities must provide equal access to higher education. Guided in part by two renowned faculty members, UTA is on top of Texas’ changing demographics, removing obstacles for students seeking higher education.

**CYBER SUPERHEROES p. 50**
Second in the nation for cyber victimization, Texas is in need of highly skilled cybersecurity professionals. Globally, cybercrimes are at an all-time high. UTA researchers are working to solve cybersecurity problems on all fronts.
As the Dallas-Fort Worth Metroplex surges toward megacity status, UTA is leading the way in ensuring the region’s healthy, sustainable growth.

BY ERIC BUTTERMANN
PHOTOGRAPH BY HIROSHI WATANABE

“Megacities pose an unprecedented need for bold solutions on a global scale, and UTA is uniquely positioned to address these challenges.”

It comes down to one question: How do we ensure that growth is healthy and sustainable? Researchers at UTA are tackling that question head-on and answering with discovery, innovation, and impactful solutions.

SOCIAL MOVEMENT

In the College of Architecture, Planning, and Public Affairs (CAPPA)—a college devoted to issues surrounding building and supporting sustainable communities—students begin working on vital urban concerns early in their academic careers. As graduate students, they gain hands-on experience in surrounding communities through work in the Institute of Urban Studies (IUS). Of late, that experience has included thorough investigations of transportation concerns in the city of Dallas. What IUS researchers have found is that much of Dallas is having trouble just getting to work.

“More than 65 percent of Dallas’ population has access to less than 4 percent of jobs by transit,” says Shima Hamidi, CAPPA assistant professor and IUS director. “This shows just how much DART [Dallas Area Rapid Transit] and the city of Dallas need to work together to provide better access for a transit-dependent population.”

Dr. Hamidi and her team are also working with Tarrant County, looking at walking, driving, and transit in different neighborhoods. Their research focuses on connections between transportation and quality of life and the effects of those connections on the economy. In terms of sociodemographic parity, Hamidi’s research indicates that poor areas score low in access to opportunity. A lack of affordable housing is a key factor, as affordable units are often located away from the urban core and not walkable.

“When you think of affordable housing, you think of the intent to provide more affordability for lower-income families, and that may be true with regard to subsidies and other incentives,” she says. “But if you add transportation to housing costs, you see a substantial percentage of households living in these units in DFW end up spending even more on transportation than housing, leaving little discretionary income for food, health care, and other household purchases.”

The hope is that this kind of research will lead to social change through a call to action. Hamidi and her research team note that to achieve true affordability, development should be located where jobs can be reached.

Located in the fourth-largest metropolitan area in the United States, the city of Arlington is a locus of progress between Dallas and Fort Worth in a region that is well on the way to reaching megacity status. The megacity mark is a population of 10 million, and the Dallas–Fort Worth–Arlington region recently clocked in with more than 7 million, according to the latest U.S. Census Bureau data. With a population gain of 146,000 residents in 2017, the area also charted the largest growth of any metro area in the United States. “As urbanization increases, so do issues of sustainability, infrastructure, social inequity, and health,” says President Vistasp Karbhari.

"More than 65 percent of Dallas’ population has access to less than 4 percent of jobs by transit," says Shima Hamidi, CAPPA assistant professor and IUS director. "This shows just how much DART [Dallas Area Rapid Transit] and the city of Dallas need to work together to provide better access for a transit-dependent population.”

Dr. Hamidi and her team are also working with Tarrant County, looking at walking, driving, and transit in different neighborhoods. Their research focuses on connections between transportation and quality of life and the effects of those connections on the economy. In terms of sociodemographic parity, Hamidi’s research indicates that poor areas score low in access to opportunity. A lack of affordable housing is a key factor, as affordable units are often located away from the urban core and not walkable.

“When you think of affordable housing, you think of the intent to provide more affordability for lower-income families, and that may be true with regard to subsidies and other incentives,” she says. “But if you add transportation to housing costs, you see a substantial percentage of households living in these units in DFW end up spending even more on transportation than housing, leaving little discretionary income for food, health care, and other household purchases.”

The hope is that this kind of research will lead to social change through a call to action. Hamidi and her research team note that to achieve true affordability, development should be located where jobs can be reached.
Not only is the college supplying Texas’ workforce with highly skilled nursing graduates, it is also working to provide communities with support through discovery and outreach.

Not only is the college supplying Texas’ workforce with highly skilled nursing graduates, it is also working to provide communities with support through discovery and outreach. In 2012, research labs devoted to health and the human condition, leading projects include a free exercise program for children with developmental coordination disorder and an elderly literature study using sensors to assess fall risk.

Community health is also a focus in the School of Social Work, where faculty and students are serving populations into the economy. In addition, conveniently located affordable housing further encourages the integration of low-income populations into the economy.

While researchers in the IUS collect data and advise policymakers, they confront how to translate that data into actionable solutions. Their work continues to grow. Hamidi notes that over the last two years, the IUS has seen its grants and contracts increase tenfold, keeping the institute’s more than 20 doctoral and master’s students busy—with an eye on finding data that can make a difference.

In addition to the IUS, the Center for Transportation Equity, Decisions, and Policy (CTEDD), which is led by Hamidi, is conducting nationally significant research on transportation policy issues, equity, shared mobility, technology, and autonomous transportation. CTEDD has already forged significant partnerships in the region and the state, initiating research projects that assist policymakers.

**HEALTHY OUTLOOK**

In a megacity, access is always a concern, particularly when it comes to health care. A report by Moody’s Investors Service indicates that Texas as a whole is suffering from a severe nursing shortage. According to a 2016 report by the Texas Department of State Health Services, the demand for registered nurses in North Texas is projected to exceed the supply by about 15,600 in 2030.

It is a problem that the College of Nursing and Health Innovation (CONHI) is working to solve. CONHI is the largest nursing program in the state, thanks in part to UTA’s focus on technology with online programs and simulated training experiences that allow nontraditional and nonlocal students opportunities to earn nursing degrees.

Creating more access also includes a focus on mental health issues. According to U.S. News & World Report rankings, UTA’s graduate and undergraduate degrees chart among Texas’ best, and the Doctor of Nursing program is ranked among the best program in the state.

“Not only are the small faculty-to-student ratios and the extensive talent and skill of a doctoral–prepared faculty,” says Anne Ravie, dean of the college, “our nationally recognized research on issues of health and the human condition gives learners unique opportunities to use and influence science. Our exceptional pass rates provide clear evidence of our success.”

"Hands-on research gives students an extra opportunity to impress future employers, which is vital in our field." UTA estimates that 90 percent of social work's 115 master's and doctoral students will have positions in the workforce upon graduating this spring.

With funding for research steadily increasing each year—from $2.3 million in 2014 to $3.6 million and growing today— and in a 2013 U.S. News & World Report's national rankings, it’s now in the top 35, the School of Social Work is poised to make an even bigger impact on the health of our burgeoning communities.

**IMPROVING INFRASTRUCTURE**

In addition to providing support that directly impacts the health of our citizens, UTA is focusing on infrastructure. In fact, in the College of Engineering—one of the most comprehensive engineering schools in Texas—researchers are working on a range of issues, from extending the life of Texas highways and byways to helping ease traffic congestion to improving waste management practices globally.

"This is an exciting time in the College of Engineering, as we have many talented professors who have different approaches to problems," Dr. Abolmaali says. "They’re all incredibly committed to seeing their work through.”

A SUSTAINABLE FUTURE

Beyond the work being done in the College of Engineering, the College of Architecture, Planning, and Public Affairs; the College of Nursing and Health Innovation; and the School of Social Work, every college on the UTA campus is working in some way to support our growing megacity. And our researchers are sharing their knowledge through collaborations with universities near and far across the globe, in some instances.

"When it comes to transportation, water, infrastructure, and sustainability, UTA is finding new solutions and helping North Texas implement them," President Karamanis says. "Because of these discoveries, communities across the world will look to UTA for guidance in creating more livable spaces for an ever-changing environment."
While every young person should have the opportunity to succeed, the data shows that many do not. UTA is continuing its innovative work to change that outcome.

BY HILLARY GREEN  PHOTOS BY JUSTIN CLEMONS
While more than 3.5 million Hispanic students in the U.S. were enrolled in public and private colleges in 2016—a number that continues to grow each year—the population remains the most underserved and underrepresented in higher education. In fact, even though more Hispanics are getting a postsecondary education than ever before, a 2016 Pew Research Center study noted that they still lag behind all other groups in four-year degree attainment. Among Hispanics ages 25-29, just 15 percent have a bachelor’s degree or higher. In Texas, about 38 percent have a bachelor’s degree or higher, compared to 70 percent of Anglos.

The disparity between Texas’ growing Hispanic population and that population’s postsecondary credential achievement is something colleges and universities across the state are working to address. The future of Texas depends on closing that achievement gap. Growing a highly educated workforce means bolstering our state’s knowledge, resourcefulness, and productivity. A highly educated workforce leads to more innovation and economic opportunity. Overall, the size of Texas’ Hispanic population makes it one of the largest underserved economic resources in the state. Increasing opportunity for Hispanics helps build Texas into an economic powerhouse that will continue to be competitive with countries across the world.

UTA is leading the way in developing programs to meet the needs of this rising demographic as well as our ever-evolving workforce. From the classroom to the boardroom, UTA is building an admission-to-graduation pathway to ensure that all students have every opportunity to succeed. The University’s efforts have not gone unnoticed, and after being designated a Hispanic-Serving Institution (HSI) in 2014 by the U.S. Department of Education, UTA has only continued to garner recognition for its focus on increasing access to opportunity for all students. In 2017, Diverse: Issues in Higher Education ranked UTA among the top universities in the country for conferring degrees to minority students and No. 18 overall for awarding bachelor’s degrees to Hispanic students.

“[HSI] designation is aligned with the mission of our University, which is to be an internationally recognized research university distinguished by excellence in every regard and by the access we provide to students from all backgrounds,” says President Vistasp Karbhari. “It builds on the tremendous diversity, talent, and dedication of our faculty and staff and will help us provide appropriate levels of support to ensure that each and every student has the opportunity to excel in all aspects of their academic careers.”

Included in these talented and dedicated faculty and staff members are two prominent UTA administrators, Maria Martinez-Cosio and Michele Rohefidd, who have been instrumental in the University’s outreach to its Hispanic students.

EXAS’ POPULATION IS booming, with nearly 28 million residents counted in the 2016 U.S. census. That is an increase of about 2.7 million people since 2010, and the data shows that more than half of that increase is attributed to the state’s growing Hispanic community. Public schools in Texas have become majority-minority, with Latinos composing 52 percent of the student population.

T

UTA is one of only 10 universities in the nation to achieve the designation of both Hispanic-Serving Institution and R-1: Highest Research Activity by the Carnegie Classification.

NATIONAL IMPACT

For Maria Martinez-Cosio, associate vice provost for faculty development and associate professor in UTA’s College of Architecture, Planning, and Public Affairs, increasing education access for underserved populations is more than just a job—it’s a culmination of a lifetime of experiences.

As an immigrant and first-generation college student, Dr. Martinez-Cosio understands the challenges that students can face when considering college. She learned English as a second language in junior high and did not consider college until a high school counselor encouraged her. She balanced classes and a job driving a bus in order to afford school. After going on to earn a bachelor’s, two master’s, and a doctoral degree, she is now using her experience breaking down the barriers of entry to higher education to help UTA students.

Martinez-Cosio guided UTA’s successful application for HSI designation. As an HSI, UTA is eligible for federal grants designed to assist first-generation students, many of whom are low-income Hispanic students. To qualify, schools must have at least 25 percent Hispanic undergraduate enrollment. As of fall 2017, UTA has 27 percent Hispanic undergraduate population and serves more Hispanic students than any other four-year public university in North Texas. UTA is one of only 10 universities in the nation to achieve the designation of both Hispanic-Serving Institution and R-1: Highest Research Activity by the Carnegie Classification of Institutions of Higher Education.

Since being named an HSI, UTA has won a five-year, $2.63 million Department of Education grant to enhance services for transfer, nontraditional, and underserved students. The grant, of which Martinez-Cosio is the co-principal investigator, allowed the creation of the IDEAS (Innovation, Diversity, Excellence, Access, and Success) Center.

The IDEAS Center offers access to support services for students in transition, particularly transfer students, veterans, and those from underserved populations. The grant also provides funding for the professional development of faculty members, exposing them to innovative methods of teaching to help them build connections with first-generation students. Not only is Martinez-Cosio leading outreach and support efforts on UTA’s campus, she has also stepped into a national leadership role to advance Hispanic stu-
The daughter of an immigrant father and migrant mother, Michele Bobadilla has tirelessly served the Hispanic community for more than 40 years as a champion for educational access and equal opportunity. She sums up her outlook toward working with underserved students by offering her favorite saying: “Adelante y con ganas!” (“Onward and with determination!”)

As assistant provost for Hispanic student success and senior associate vice president for outreach services and community engagement at UTA, Dr. Bobadilla heads UTA’s University Crossroads. The program aims to improve access to and increase success in higher education for first- and second-generation students from low- to moderate-income households.

University Crossroads was developed with a focus on the Texas Higher Education Coordinating Board’s 60x30TX goal to improve college and career readiness across the state. Participants in the University Crossroads program have access to SAT prep classes, one-on-one advising, resume development, and other services to transform their college and career outlooks.

“UTA provides viable college-to-career internships that afford the application of book knowledge with real-world experiences through unique partnerships with industry leaders,” Bobadilla says.

One such partnership is with Dallas Area Rapid Transit (DART). Students selected to participate in the UTA/DART Transportation Leadership Academy cohort receive instruction from and engage with DART corporate professionals at the highest level while receiving financial support to continue their studies. Experiential learning opportunities like this are making Mavericks among the most highly sought-after candidates entering the workforce today.

As a direct result of Bobadilla’s advocacy, the United States Hispanic Chamber of Commerce Foundation recently named her chair of its new University Partnerhips initiative. UTA’s University Partnerships will help build a robust college-to-career pipeline between HSIs like UTA and corporations that partner with the foundation. Students will get a career boost from enhanced career readiness, and businesses will benefit from a talented, highly skilled workforce. Bobadilla wants to focus on cultivating internship opportunities for students, increasing their skill levels, and providing financial sta-

In 2017, Diverse: Issues in Higher Education ranked UTA among the top universities in the country for conferring degrees to minority students and No. 18 overall for awarding bachelor’s degrees to Hispanic students.

Martinez-Cosío’s efforts have received major recognition, and earlier this year, she was honored with Ford Motor Company’s Mujer Legendaria Award. She was one of just four “legendary women” in North Texas to be recognized as part of a national program celebrating Hispanic women for their commitment to improving their communities and embracing equality, safety, and smart innovation, and sustainability.

“I follow in the steps of a long line of outstanding Latina women who continually inspire her. “I believe that the work that our IDEAS team is engaged with—our partnerships we are developing with academic units, the tutoring we offer students, and the professional development we offer faculty—all will help more strongly connect students who were like me to UTA.”

The University of Texas at Arlington Magazine Fall 2018

In transforming lives

Bobadilla’s decades-long endeavor to increase access and success for students, both in their educations and their careers, has earned her recognition from the Congressional Hispanic Caucus Institute, which awarded her its 2018 Medallion of Excellence. The honor is given to exemplary individuals who are role models and outstanding civic citizens for the Latino community, and Latino youth in particular. Winners must have at least a 15-year record of contributions and accomplishments in their field, with solid leadership and community involvement.

Bobadilla has long been an outspoken voice for underserved students, particularly Latino students from economically disadvantaged households. She believes she has lived the promise of America and what the country stands for, remembering the Latinos who have come before her.

“I know how a diploma can transform one’s trajectory and change a family for generations,” she says. “I pledge to be a standard-bearer by using my voice as an advocate for change.”

Martinez-Cosío echoes this, noting that the success of students who benefit from UTAs assistance will have a ripple effect within their communities. “I can’t think of more important work to do.”
When Hurricane Harvey made landfall as a Category 4 storm on August 25, just one day after UTA’s fall 2017 classes began, faculty, staff, students, and alumni rushed to support their fellow Texans. BY MELINDA MAHAFFEY ICDEN
As the storm ravaged South Texas, more than 40 student members of the Texas National Guard and the federal military reserves deployed to the area. During their activation, the students worked with their individual units on a variety of rescue and recovery efforts. Some searched through buildings to look for survivors, others cleared out rubble and opened roadways, and still others assisted students working with their individual units on a variety of rescue and recovery efforts. Some searched through buildings to look for survivors, others cleared out rubble and opened roadways, and still others assisted students working with their individual units on a variety of rescue and recovery efforts.

Additionally, four members of the UTA Police Department—Sgt. Tom Savage and officers John Morrison, Kris Ramirez, and Sharon Duty—volunteered to provide relief to their counterparts from the UT Health Science Center at Houston. For about a week, the UTA officers worked 12-hour shifts with officers from other UT campuses doing whatever was needed. Morrison says he spent the majority of his time loading, unloading, and transporting medical supplies or food. They hadn’t known what to expect before they arrived—just that one of the other UT institutions needed help.

“We knew that if we were in a similar situation, they would provide the same for us,” Morrison says.

IMMEDIATE SUPPORT

In Arlington, the University sent out emails to every member of the community who was known to be from one of the affected areas, checking on the safety of students and their families and letting them know that assistance was available—both academic and financial.

Hurricane Harvey had a particular impact on UTA’s online students in the Houston area, most of whom were enrolled in College of Nursing and Health Innovation programs and had potentially lost internet access or supplies, or not been able to reach the facility where they were to perform their clinicals. For students taking three- to five-week classes, professors worked to adjust exam schedules to help them continue with their studies. When some students ultimately chose to skip a session, the University allowed them to roll their enrollment forward without penalty. The college also worked with students to extend tuition payment deadlines.

“The faculty as a whole was very supportive of those impacted and those serving,” says Heather Snow, associate vice president for student affairs and dean of students. She says that in one large online chemistry class for nursing students, for example, about 50 percent of the students came from an affected area. To accommodate them, Seiichiro Tanizaki, assistant professor of practice in the Department of Chemistry and Biochemistry, created an entirely separate section of the course and shifted all of the deadlines. The new section gave students the first two weeks off and consolidated coursework so that all of the students would finish together at the end of the term.

UTA Libraries pitched in with relief efforts by hosting no-sew blanket workshops and joining forces with local libraries to collect used books and games to give to those temporally living in shelters.

The previously scheduled Maverick Speakers Series lecture with actor and alumnus Lou Diamond Phillips, who hails from Corpus Christi, became a fundraiser for the University’s Emergency Assistance Fund. Other events from early September also dedicated proceeds to the fund. UTA was ultimately able to award a total of $59,000 to 176 students who had unexpected financial needs due to the hurricane, which Snow says is about triple the amount awarded in any given year.

RESEARCH IN ACTION

Hurricane Harvey caused severe flooding largely because the rain had nowhere to go. In a highly urbanized city like Houston, concrete prevents water from being absorbed.

As a result, the epic amount of rainfall during the storm largely became runoff at many watersheds, says Nick Fang, assistant professor of civil engineering. For Texas Medical Center (TMC), which sits alongside the flood-prone Brays Bayou, that could have been devastating.

But in the 1990s, TMC—the largest medical complex in the world, with member institutions such as the UT MD Anderson Cancer Center—invested in a flood-alert system, which Dr. Fang helped develop when he was a doctoral student at Rice University. The current version, known as FAWS, feeds real-time rainfall data from the National Weather Service and rain gauges into a hydrologic model to predict streamflow. The process repeats itself every five to 10 minutes, and the system can predict flooding conditions two to three hours in advance, sending out warning messages to related emergency personnel.

Research in Action

Hurricane Harvey caused severe flooding largely because the rain had nowhere to go. In a highly urbanized city like Houston, concrete prevents water from being absorbed. As a result, the epic amount of rainfall during the storm largely became runoff at many watersheds, says Nick Fang, assistant professor of civil engineering. For Texas Medical Center (TMC), which sits alongside the flood-prone Brays Bayou, that could have been devastating.

But in the 1990s, TMC—the largest medical complex in the world, with member institutions such as the UT MD Anderson Cancer Center—invested in a flood-alert system, which Dr. Fang helped develop when he was a doctoral student at Rice University. The current version, known as FAWS, feeds real-time rainfall data from the National Weather Service and rain gauges into a hydrologic model to predict streamflow. The process repeats itself every five to 10 minutes, and the system can predict flooding conditions two to three hours in advance, sending out warning messages to related emergency personnel.
During Hurricane Harvey, Fang worked with researchers at Rice to help track and monitor the bayou’s water levels, allowing TMG officials to make timely decisions about closing their flood gates, installed after Tropical Storm Allison, which caused $2 billion in damage to the medical complex in 2001. TMG’s proactive efforts during Harvey aided by scientists such as Fang, allowed hospitals to stay open, serve patients, and minimize flooding.

The flood-alert system has also been adopted by the Texas Department of Transportation and the cities of Sugar Land and Grand Prairie. FAS is one of the “very few reliable operational systems in the nation,” Fang says. “We’re hoping a similar system can be applied to more flood-prone areas to benefit those communities.”

During the hurricane, Fang also worked closely with a group of experts brought together by the Texas Division of Emergency Management and the U.S. Army Corps of Engineers, participating in a conference call every morning for the duration of the disaster. Utilizing Harris County’s flood-mapping data, Fang and his team created a detailed map of Harris County that made clear which areas were vulnerable to flooding, saving the city millions of dollars.

“Flood maps are the most important tool we have for emergency preparedness,” said California Water Agency Director Patricia DeAngelo. “It’s imperative that we have accurate and up-to-date information to make informed decisions.”

The flood-alert system has also been adopted by the Texas Department of Transportation and the cities of Sugar Land and Grand Prairie. FAS is one of the “very few reliable operational systems in the nation,” Fang says. “We’re hoping a similar system can be applied to more flood-prone areas to benefit those communities.”

“Flood maps are the most important tool we have for emergency preparedness,” said California Water Agency Director Patricia DeAngelo. “It’s imperative that we have accurate and up-to-date information to make informed decisions.”

LONG-TERM SOLUTIONS

Hurricane Harvey eventually moved out of the Lone Star State, but it left behind an estimated $125 billion worth of damage, second only to Hurricane Katrina in the period of record, that would take time to clean up. In the aftermath, several media outlets reported that emergency personnel had underestimated the extent of the damage, affecting the lives of 3.6 million residents and bringing unprecedented flooding to Houston, where one area saw as much as 18 inches of water.

Fang and the Texas A&M team, which included civil engineering doctoral student Surya Sarat Chandra Congress and Cody Lundberg, a research engineer at the UTA Research Institute, traveled to Beaumont. There, they worked closely with city officials and personnel from the emergency management office to collect data in order to develop a framework that better estimated the debris that remained on city streets, which could help municipalities improve future cleanup efforts.

With the support of a yearlong Rapid Response Research grant from the National Science Foundation, Lundberg, an FAA-certified pilot, conducted 15-minute unmanned aerial vehicle (UAV) flights to take overlapping photographs of six different debris piles at eight sites while Congress served as a visual observer. Annad Puppala, associate dean for research in the College of Engineering and principal investigator on the Beaumont project, provided guidance; Junzhuo Huang, an associate professor in the Department of Computer Science and Engineering, was co-principal investigator.

At the same time, collaborators from Louisiana State University used a smartphone camera to capture images of the same stockpiles. Once back at UTA, Congress used photogrammetry to create highly accurate 3D models estimating the volume of each pile of trash.

“It’s important for a city to get a handle on the debris volume so it can know how much money it has to invest in this kind of cleanup operation.”

Puppala notes that UTA is a leader in UAV research, and students work with a TxDOT computer system that could provide real-time information during emergency operations.

While the 2018 hurricane season is well underway, experts are predicting a quieter period than the one that created Hurricane Harvey. However, that doesn’t indicate impact—it’s unknown, of course, where storms will make landfall before they form. Whatever happens, UTA is ready to lend compassionate support and expert knowledge whenever help is needed.
Recognizing a growing need in Texas and beyond, UTA is working on all fronts to prevent cybersecurity breaches and protect data.

BY TONI COLEMAN
You’re scrolling through your social media feed and come across a television news video about work-from-home scams. The reporter breathlessly reports the schemes his investigation has uncovered and warns the viewer to stay away from certain outfits. The good news is that the reporter has helpfully vetted one legitimate work-from-home opportunity.

The program that garnered the imposter reporter’s seal of approval? It’s a scam. You don’t realize this until after you’ve racked up a couple hundred dollars in recurring credit card charges you agreed to when you purchased the starter kit, which contains bogus job leads. “They’ve gotten good at playing into people’s emotions and fears. We need to help law enforcement get a better grasp on this,” says Kent Kerley, professor and chair of the Department of Criminology and Criminal Justice. The price of the starter kit is nominal, but if only 3 percent of targeted victims fall for the scheme, it adds up to a lot of money for the swindlers, says Dr. Kerley, who conducted a Google-funded study on work-from-home scams.

Cybercrime victimization is one of the areas Kerley plans to pursue as part of UTA’s new multidisciplinary research and teaching cluster in cybersecurity and digital forensic investigation. In fall 2018, the colleges of Liberal Arts, Business, Science, and Engineering are joining forces to help close a skills gap as well as respond to industry demands for more qualified cybersecurity professionals. This enterprise to train future cybersecurity professionals is an extension of UTA’s data-driven discovery initiative and joins ongoing University research on preventing cyber breaches and protecting data.

FUTURE CRIME FIGHTERS

Historically, the fight against cybercrime started in business schools in response to corporate need, with computer science or engineering researchers focusing on hardware and software solutions. But they have lacked deep forensic investigation tools, knowledge of statutes, and an understanding of victimization and criminology. Bringing these disciplines together makes for a more comprehensive and effective approach to fighting cybercrime, says Seungmug Lee, cybersecurity associate professor in the Criminology and Criminal Justice Department.

“Hackers or cybercrime offenders often go free. We do not see a lot of prosecutions,” Dr. Lee says. “One of the biggest challenges is equipping security professionals with tools they need to do forensic investigations. Without proper knowledge of data science and law enforcement, we cannot approach cybercrime cases properly.”

The FBI reports receiving nearly 300,000 complaints in 2016, from scams to data breaches to identity theft, with reported losses exceeding $1.3 billion. The taskforce it created to work in partnership with local law enforcement agencies opened just 37 cybercrime investigations that year. Since 2013, the group has launched 73 investigations.

The need for skilled cybercrime investigators is particularly acute in the Lone Star State. Texas ranks second among states for the most cybervictims and fourth in terms of the financial losses suffered. More than 21,000 Texans have reported cybercrimes, making the state second to California, where nearly 40,000 people have reported being victimized. The reported losses in Texas total $77.1 million, compared to $255.2 million in California. However, the problem is likely more widespread than these numbers indicate because an estimated 85 percent of victims never report cybercrimes.

With the growth of cybercrimes, security professionals have not been able to keep up. A 2018 survey conducted by IT analysis and research firm ESG found that 51 percent of companies were breached in the past year, which translates to an average of 500,000 data breaches per day. There are not enough cybersecurity professionals to handle this workload, says Dr. Lee.

The need for skilled cybercrime investigators is particularly acute in the Lone Star State.
more than having knowledge from a technical perspective. You need people who are communicators," John-son adds. "We need people who can document chain of custody. We need people who are critical thinkers, have investigative training, can identify patterns, can read between the lines and figure out what's going on, and can communicate risks in a language executives can understand."

While planning for the cybersecurity teaching and research cluster still in the early stages, Kerley expects that through the multidisciplinary enterprise, students will have an opportunity to earn either a certificate or a minor in cybersecurity. Joint criminology—computer science—business research projects are in the offering.

**RESEARCH CRUSADERS**

In the meantime, while UTA’s criminal justice program is teaching students how to investigate computer crimes and hold cybercriminals accountable, researchers in the Computer Science and Engineering Department are coming at cybersecurity from other angles.

"It's a challenge to find people to fill these roles—with cybersecurity, it's Distinguished University Chair Professor of Computer Science and Engineering." As researchers, we have to dream and conceive of attacks, find vulnerabilities, and not make technology so inaccessible that it is of no use to society."

**BETTER DETECTION**

Christoph Csallner, associate professor of computer science and engineering, and Shalnain Aboughadareh ('13) PhD Computer Science) created a code-monitoring tool called RAI to detect malware in legacy systems. Large companies find it more affordable to update and maintain rather than replace their legacy applications, especially if they spent millions developing them.

"Some programs have been running for decades," Dr. Csallner notes. But these older programs are especially vulnerable to malware, forruse software designed to damage or disable computer systems. And taking a sys-tem offline to investigate or mitigate malware disrupts the business, affecting its bottom line.

Csallner and Dr. Aboughadareh created a tool that can be installed on a company’s main server and individual computers. The tool takes a snapshot of each computer’s memory, where malware typically hides, and sends the images back to the server. The central computer then compares the snapshots.

"It can detect which computers are not like the others," Csallner says. "If there are a few outliers, you can assume a small set of machines has been taken over."

Because of its small size, it succeeds where commer-cial antivirus programs, which take up a lot of mem-ory fail. Additionally if malware is installed before the antivirus tool, the tool may think the virus is a normal part of the computer system. RAI is not susceptible to that problem.

"It’s common for malware to attack antivirus tools directly. That’s why it’s no longer best practice to install traditional antivirus," Csallner says. "We don’t have that problem because the tool is small. We minimize the attack surface."

**FINDING VULNERABILITIES**

Under certain circumstances, it is OK to release aggregate data but not individual data. For example, investi-gating the cause of an HIV cluster requires the release of the total number of diagnoses, but it's unethical (and illegal) to reveal that John Smith, in particular, has HIV. Conversely, sometimes it's OK to release individual data, but not aggregate data, such as how a user can search an online retailer’s database for a product to purchase, but it is unethical for a competitor to crawl or mine the data to gain a competitive advantage.

Data access control is the focus of research being conducted by Dr. Das. He is exploring how to restrict unauthorized access without making programs too cumbersome for the intended user. A major discovery he has made: vulnerabilities in location-based service apps. Google Maps, Facebook, Instagram, and Waze are great for helping you get around or sharing your location with friends. But you can get an idea of how many people are there in this neighborhood at this time," Das says, noting that if he, as a third party, can figure it out, bad actors can, too.

**LEARNING FROM INTRUDERS**

Ransomware, which seizing control of an entity’s data and denies access until the company pays a ransom, can result in data becoming unrecognizable. That’s what hap-pened in March 2018 in Atlanta, when malicious soft-ware shut down city services, preventing the city from collecting payments on outstanding taxes and properties, online job applications, and holding court proceedings.

In his research, Jiang Ming, assistant professor in computer science and engineering, is studying how ran-somware behavior and its evolution to develop ways to mitigate it without losing data. By monitoring how ran-somware interacts with a computer’s file system, he’ll be able to characterize and model ransom-ware-like behaviors. By comparing progressive versions of ransomware through a method called “segment equivalence checking,” he’ll be able to identify semantic differ-ences between ransom-ware variants. Although malware authors have been successful at evading software-based detection, malware usually leaves an identifiable footprint in hardware performance counters. Dr. Ming is investigating whether hardware can assist in early ransomware detection before any data is lost.

Collectively, the work UTA is doing is to prevent, predict, and investigate threats will make an impact in disrupting cybercriminal enterprises that have cost billions in damages globally.

"Cybersecurity is a big area," says Jingguo Wang, as-soicate professor in the Department of Information Systems and Operations Management in the College of Business. Dr. Wang is conducting research on cybersecurity risks posed by employee behavior. "UTA has the opportunity to take a leading role in this aspect of educa-tion and research. There’s a high demand for skilled cy-bersecurity analysts and managers, and we should take this opportunity."

"It’s a challenge to find people to fill these roles—with cybersecurity, it’s more than having knowledge from a technical perspective. You need people who are communicators."
Additional honorees included

Janita Hemphill Wells
(BS) was named a 2017 Each Moment Matters Honoree by the Presbyterian Communities and Service Foundation in Dallas, Texas. The awards program supports the Faith Presbyterian Hospice program in Dallas.

“IUTA provided the foundation that I needed to improve my own life so that I can improve the lives of others. Maverick for life!”

—IDIONO EDEM

Joe B. Swift
(BBA, Business Administration) was named a distinguished alumnus by North Dallas High School. At UTA, he was a member of the Sam Houston Rifle Team and was named a distinguished military graduate. He retired from the U.S. Army as a colonel in 1994 and from Bell Helicopter as a logistic engineer in 2004. He is a 2011 inductee into UTA’s Maverick Hall of Honor.

Steve Smith
(BBA, Management Information Systems) was named a sales associate with RE/MAX Dallas Associates in Flower Mound, Texas. He is a 2011 inductee into UTA’s Maverick Hall of Honor.

Diana Ault
(BBA, Marketing) was elected to the board of directors of Hotel Brokers International and serves as board president. She is an associate broker with Scoggin Rice, based in Las Cruces, New Mexico, and has managed the brokerage firm’s Dallas office since 2002.

Susie Franciini Davids
(BBA, Marketing) has joined麦克恩公司, an independent health care services and consulting firm, as director for the south central United States.

John B. Garth
(BS, Geology) retired as a field office geologist for the U.S. Department of the Interior Bureau of Land Management in southeastern Idaho. The Twin Falls, Idaho, resident previously worked as a petroleum geologist for Conoco, Tescor Petroleum and Bright & Company in Texas, Oklahoma, Louisiana, and Alberta, Canada.

Jean McSweeney
(MSN, Nursing) received the Women’s Cardiology Fellowship for a three-year program in Dallas, Texas. Previously, she was an associate principal at HHS for corporate interior design.

Paul Henley
(BBA, Management) accepted the position of fire chief of Conroe, Texas. He was battalion chief for the city of Frisco and a captain for the Garland Fire Department.

Margot Weyandt
(MSW, Social Work) is the author of My World and Portion Be, the second in her Gour Ghost Passage series on Amazon. The Trego, Wisconsin, resident also paints the covers for her books.

Joli Livaudais
(BS, ’87 MS, Psychologist), assistant professor of photography at the University of Arkansas at Little Rock, was featured with her artwork on lenscratch.com.

David Lubin
(BS, Interior Design) is co-managing director of IA Interior Architects in Dallas, Texas. Previously, he was an associate principal at HKS for corporate interior design.

Tom Lindquist
(BBA Management) has been named CEO of...
2012  
Baldwin Brown  
(MS, Educational Leader-  
ship and Policy Studies)  
was named inaugural  
principal at J.M. Terrell  
Academy for STEM and  
Academies for  
driving innovation and  
for individuals  
that opened the all-male  
1991  
Keith W. Walsh  
(PhD, Business Adminis-  	ration) was named execu-  
tive director of the Texas  
Community College System  
Center for Intellectual  
and Southern Arkansas  

2000  
Mike Hanlin  
(BA, Criminal Justice) was  
named the new Grape-  
vine police chief. Hanlin  
was a former police  
avenue of UTA’s  

2002  
Hernan Rizo  
(MBA, Business Adminis-  	ration) was named new  
chief financial officer for  
Financial Services  
and Longview, Texas.  
He previously served as  
Chief Financial Officer  

2003  
Charles Williams  
(MPA, Business Administra-  
tion) has been appointed  
the three-year term on  
the South Carolina  
Board of Trustees.  
Williams is a former  
Center for Health Care  
and Southern Arkansas  

2004  
Heidi Allison  
(BA, Interdisciplinary  
Studies), owner of Sugar  
Bee Sweets bakery in  
downtown Arlington, Texas,  
is a recipient of the  

2007  
Lectana Gabor  
(MS, Educational Leader-  
ship and Policy Studies)  
has published a free ebook  
and is the author of  

2012  
Clay Cody  
(MS, Educational Leader-  
ship and Policy Studies)  
was named the new  
assistant athletic director  
for the Lewisville Inde-  

2013  
Mark Bauer  
(BA, Journalism) rejoined  
American Lawyer Media  
as managing editor of  

2015  
Kevin Douglas  
(MBA, Business Administra-  
ion) has joined South-  

”My education prepared me to understand the core of motivation for individuals and adapt to changing priorities seriously without the audience seeing how hard you work for them.” –  

Fall 2018 / 59  
The University of Texas at Arlington Magazine  
uta.edu/mag
“My experience at UTA definitely has me and played a key role in my work.”

— BREN'T WEATHERALL

IN THE RUNNING

Two alums have made history as Dallas County sheriffs running for office this fall.

Lupe Valdez

(’00 MA, Criminal Justice), Dallas County’s first Hispanic sheriff, is running for governor of Texas. She faced Andrew White in the May runoff election and will be on the ballot against incumbent Greg Abbott in November.

Marian Brown

(’82 MBA, Communication) is Dallas County’s first African-American sheriff. She was appointed to be the interim sheriff after Valdez resigned to run for governor. Brown and Aaron Meek, a Republican, are on the November ballot for the position.

GIVE TODAY

If you are interested in getting in- volved at UTA or in private philanthropy, contact Dean Morgan, assistant vice president for university relations, at 817-255-6508. If you would like to make a gift of any amount, text GIVEUTA to 41444.

“Individually donors provide a growing amount of stability for a public university.”

—′17 MA, Demographic Research, assistant vice president for university relations
IN MEMORIAM

Gen. Richard E. Cavazos
(49 BA, Liberal Arts) 88, Oct. 29, 2017, San Antonio, Texas. He was the U.S. Army’s first Hispanic brigadier general and four-star general. He received the Distinguished Service Cross for service in both Korea and Vietnam. Named a Distinguished Alumnus in 1975, Cavazos was among the first inductees into UTA’s Military Science Hall of Honor.

Suzanne Coleman
(73 MS, Political Science) 70, July 14, 2017, Austin, Texas. She served as the late Texas Gov. Ann Richards’ chief speech writer for 36 years. A Texas Monthly profile of Coleman stated, “Together Coleman and Richards can turn everyday language into a knockout punch.”

ALUMNI

1950s


Izak Donley Gregory (’72 BA, Political Science) 71, Jan. 24, Southlake, Texas.

Ronald Wayne Overbeck (’72 BS, Mathematics) 69, Sept. 9, 2017, Cumdray, Texas.

1960s


Joe Ralph Kelley II (’65 BA, Foreign Languages) 75, Jan. 20, Houston, Texas.

Michael John Bruckner (’66 BBA, Finance) 72, Feb. 4, Wictuna Falls, Texas.

Kenneth W. Hobbs (’67 BA, English) 76, Jan. 21, Fort Worth, Texas.

Wayne Glenn Harvey (’72 BA, Business Administration) 74, Nov. 16, 2017, Arlington, Texas.

Douglas Joseph Jenkins (’72 BS, Criminal Justice) 67, Feb. 12, Fort Worth, Texas.

David Arthur Bell (’78 BS, Physics) 64, Jan. 2, Friendswood, Texas.

Rob Stearns (’79 BS, Criminal Justice) 64, Jan. 13, Portland, Oregon.

Michael Ray Midkiff (’79 BS, Physical Education) 66, Feb. 19, Arlington, Texas. He played on the last Rebel football team in the 1960s.

1970s

Terry Kevin Twomey (’71 BBA, Business Administration) 64, Jan. 31, Kinneidae, Texas.


Ronald Wayne Overbeck (’72 BS, Mathematics) 69, Sept. 9, 2017, Cumdray, Texas.

1980s

Joe Barry Annino (’80 BS, Political Education) 61, Feb. 22, Dallas, Texas.


Barbara Barnes Crow (’74 MBA, Business Administration) 77, Feb. 3, Arlington, Texas.


Patricia "Pat" Nimmco Riddle (’78 BA, Journalism) 90, Jan. 9, Greenville, Texas. She graduated with honors at 54 and wrote for The Star-Telegram in her 80s.

Bob Luajeno Sr. (’86 BBA, Finance) 63, Nov. 23, 2017, Grand Prairie, Texas.

Lester G. McDougle (’86 BS, Criminal Justice) 63, July 22, 2017, Fort Worth, Texas.

1990s

Carol Farmer McCorkie (’93 BBA, Accounting) 76, July 31, 2017, Irving, Texas.


Theodore M. Allen (’96 BBA, Management) 76, Sept. 12, 2017, Fort Worth, Texas.

Barbara Barnes Crow (’74 MBA, Business Administration) 77, Feb. 3, Arlington, Texas.

2000s


Patricia "Pat" Nimmco Riddle (’78 BA, Journalism) 90, Jan. 9, Greenville, Texas. She graduated with honors at 54 and wrote for The Star-Telegram in her 80s.

Boy Bejar (’02 BBA) 44, Sept. 30, 2017, Frisco, Texas.

2010s


Dorothy Orlando Estes (’75 BBA, International Business) 73, Aug. 29, 2017, Dallas, Texas.

FACULTY & STAFF

Harry Rowland Barnard 82, Feb. 25, Bynum, Texas. He taught in the Mechanical and Aerospace Engineering Department from 2013-18.


Lawrence L. Schkade 87, Nov. 25, 2017, Arlington, Texas. He served as professor and dean in the College of Business during his 34 years (1976-2009) at the University.

Jere Dickson Turner 86, March 7, Dallas, Texas. He taught in the Department of Finance and Real Estate from 1989-2001.


Hildegard Mary Williams 93, March 18, Arlington, Texas. She worked in Student Affairs from 1965-90.

James Allen Wood 81, Jan. 24, Arlington, Texas. He was a professor in the Department of Communication from 1989-94.

Dorothy Orlando Estes 90, Jan. 25, Arlington, Texas. Estes was a passionate educator and student journalist advocate as she served as director of Student Publications from 1970-96. In her career, she inspired generations of journalists who staff news outlets around the world. She was preceded in death by her husband, Emory Estes, who taught English at UTA.

Carla Diane Houx 66, Jan. 11, Benbrook, Texas. She taught in the Department of Management from 1998-2010.


Jere Dickson Turner 86, March 7, Dallas, Texas. He taught in the Department of Finance and Real Estate from 1989-2001.

On a Friday night, one of my students was hit by a car while riding her bike home from class. Fortunately, she walked away with just a few bruises. This incident was par for the course as we live in a city, Arlington, with no public transit and limited dedicated bike lanes. Those without automobiles are forced to take their chances in a car-oriented environment, where housing and services are spread far and little walkability exists.

Given the size of Arlington—its population is around 400,000—this lack of resources is quite unbelievable. Areas such as this can be described as transit deserts and result from the suburban and low-density built form that favors the automobile. These outer urban areas have not offered adequate public transit to support economically viable employment or access to social and cultural networks. Determinants of transit deserts include how far one must walk, the time it takes to access transit, and suburban physiographic conditions.

There are several reasons communities become transit deserts. They are often areas of low development with economic and demographic shifts. Currently, the redevelopment of cities and urban revitalization projects occur in inner urban areas and downtowns. A result has been the displacement of populations that are heavily dependent on transit to outer-urban areas with decreased transit availability. Often, little thought has been given to the fact that these shifted residents are being displaced to auto-oriented communities with minimal or nonexistent public transit.

These issues have a real impact on people’s lives. An excerpt from my book, Lost in the Transit Desert: Race, Transit Access, and Suburban Form, gives a picture of how lives are impacted by living in environments with little or no frequent and reliable transit access:

Ms. Daigle, a native New Orleanian, who lives in a residential complex in New Orleans East, sits in her apartment and tells of the trials she faces getting to work using public transit.

“In 2005 I was staying in the East, and I had to walk from the I-10 Service Road to Lake Forest Blvd. in the dark. I had to come out from the Service Road to Lake Forest Blvd. at 11:00 p.m. at night, so I quit my job because it was too dangerous. After Katrina, I moved back in the East, and I have to walk again from the Service Road all the way to Lake Forest Blvd. I leave out of my house at 4:30 in the morning to catch the 5:30 a.m. bus, and that is dangerous. The bus picks me up about 5:30 a.m. I get to Canal Street at about 6:30 a.m. Then I have to wait on Canal Street for the Streetcar to go to the end of the line to get to my job.”

Safety and the danger involved in waiting long hours for transit in the dark are recurring issues in Ms. Daigle’s accounting.

Transit usefulness mostly lies in the design of the network, its response to urban form, and ridership demand. Transit technologies and systems should be selected for their ability to maximize the personal mobility of the entire community. They must become a necessary component of sustainable and equitable cities.

ABOUT THE AUTHOR
Diane Jones Allen has established a national reputation by bridging practice and research in transportation access, sustainability, and environmental justice. She has over 30 years’ experience in successful practice and was recognized by the American Society of Landscape Architects for community service in 2016.
Look Ahead

Your alma mater just can’t get enough of you. Join us at any of these upcoming events. We can’t wait to see you!

- **SEPTEMBER 18**: UTA Night at the Rangers
- **OCTOBER 6**: UTA Day at the Fort Worth Zoo
- **OCTOBER 21**: UTA Day at FC Dallas
- **NOVEMBER 9**: Distinguished Alumni Awards
- **NOVEMBER 10**: Homecoming

Dates subject to change. Visit uta.edu/events for the latest info.

DON’T MISS

Homecoming is more than a single game—it’s a week of spirit-filled events. Join the fun!