

UTA

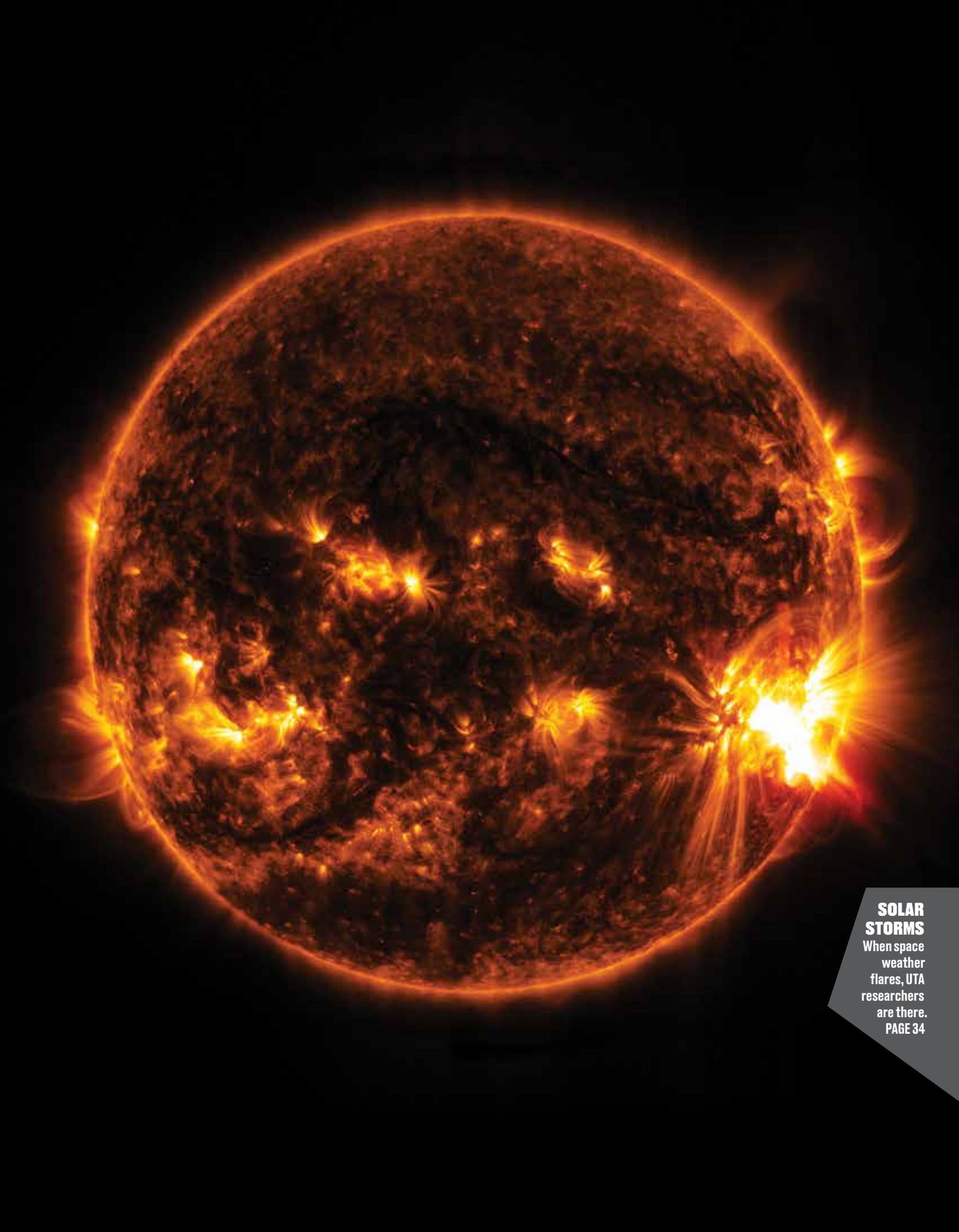
**The University
of Texas
at Arlington**
Magazine
SPRING 2017

Brilliant Impact

*Alumnus and senior
lecturer Carlos Donjuan
colors everyday journeys*

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SOLAR STORMS
When space weather flares, UTA researchers are there. PAGE 34

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IT'S A BIRD! IT'S A PLANE!
See the most popular photo in the *Fort Worth Star-Telegram* archives, housed in UTA Libraries' Special Collections. PAGE 19

FEATURES



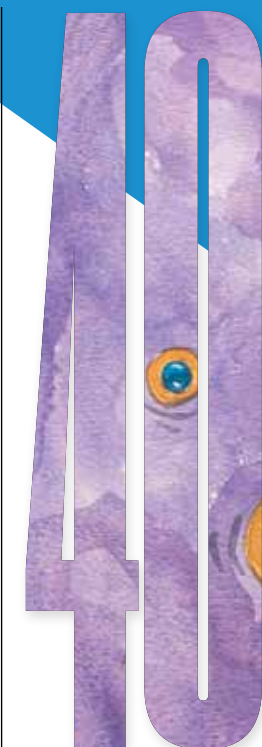
Extra! Extra!
Get an inside look at *The Shorthorn*, a training ground for generations of journalism excellence.



Serving Those Who Served
UTA puts veterans first. Read about how the University became No. 1 in Texas for serving veterans and their dependents.



Beyond the Stars
Research at UTA runs the gamut from the smallest cell to distant planets. Here, we explore the research that's being done beyond the stars.



Local Color
Carlos Donjuan, senior lecturer and alumnus of the Department of Art and Art History, shares his work and his vision for more vibrant, connected communities.

Contents

SPRING 2017



IF YOU'VE FOLLOWED the course of your alma mater over the last few years, you've seen the rising trajectory. You've probably heard some key phrases—and read them right here in this magazine: Carnegie Classification R-1 “highest research activity.” Fifth in the nation for diversity. Global enrollment of over 57,000 (and counting)! Best for veterans. Best for nurses. Best for engineers. Best for, well, just about anyone who is looking for excellence in higher education.

As we set about planning a new slate of issues, we decided it was time that our magazine reflected some of the incredible changes our University has seen over the recent past. It's been seven years since our previous redesign—we last debuted a new look in 2010. And a lot has changed since then! So, first up, a new name. We went shorter and bolder: *UTA Magazine*. Next, a cleaner and more modern design. We wanted to show you dynamic imagery that conveys the life and growth happening all the time at UTA, both on campus and in the local and global communities we touch.

Editorially, we wanted to continue telling the stories that bring you the larger picture of UTA and everything this University stands for. In the following pages, you'll read about groundbreaking research. You'll learn about our incredible faculty and outstanding students and alumni. And yes, you'll probably come across some brag points here and there. (Hey, is it really bragging if we're just pointing it out for your general information? Can we help it if we shine a little brighter than the rest?)

SOMETHING'S... I DON'T KNOW. DIFFERENT.

As an alumna, I couldn't be more proud of this University. As the editor of this magazine, I am thrilled to be able to use this publication as a platform to communicate the innovative ideas, the spirit of progress, and the unique drive that defines this awesome community.

So, please, kick back and enjoy this issue of *UTA Magazine*. When you're done, email us at utamagazine@uta.edu and let us know what you think! As a bonus, if you include your favorite UTA memory, you could be included in an upcoming issue. Happy reading! And GO MAVS!

Amber Scott
(’01 BA, English)
Editor

UTA

The University of Texas at Arlington Magazine

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CAMPUS BUZZ

Connect with UTA across all social media channels with the handle @utarlington.

I have the best section! The MavBrass saxes are having a great time cheering on the teams! #foreverarlington #sunbelt —@eyeswithpridesir

#UTArlington men looking good at halftime of the #NIT tournament @collegepark —@CURVIEHAWKINS

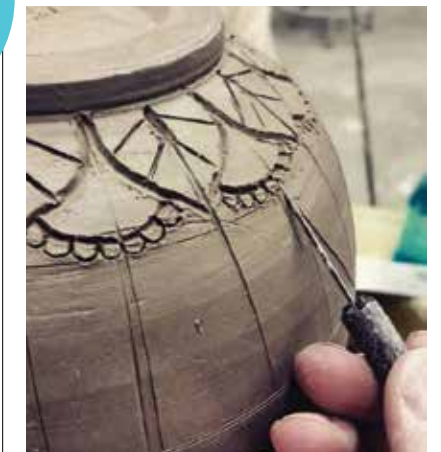


Not a runner yet, but not stopping anytime soon. #keepgoing #alمامater —@rawanderlusted

Going home tonight much more optimistic with the world and with myself. Thanks for inspiring that optimism, @FareedZakaria #maverickspeakers —@rtalias



More please #handmade #clay-class #artmajor #messyhands —@sparrowberryartwork



Thank you for an awesome season @utamavs You made all of us at @utarlington very proud —@VISTASPKARBHARI

Yes! Well done men. Great season!

—@REPMATTKRAUSE



ACES Symposium poster on using a Neural Network to identify proteins. It's going great! —@leilei683



Undergrad students workshop. Second floor, College of Architecture, Planning and Public Affairs

—@ILIYAZDANPANAH



Updates from
the Mavericks
who shape
the UTA
community
near and far

Mav Roundup

SPRINGTIME ON THE UTA campus has an energy unlike any other. While everything blooms lush and green and the squirrels begin their rampant foraging, students are out in droves: cooking and selling hamburgers for fundraisers, competing in intramurals, studying under shady trees, or, like these guys, hanging out in stacked hammocks between classes.

COME ONE, COME ALL

MASSIVE LEARNING

UTA's MOOC courses enhance online education

UTA recently expanded its catalog of Massive Open Online Courses, or MOOCs, with two new courses. One trains educators on the practical applications of emerging technologies like social media in K-12 teaching and learning. The other helps online instructors of college courses replicate classroom connectedness.

More than 3,100 students from 139 countries have participated in the first MOOC to date, titled What Now? Emerging Technologies and Their Practical Application in K-12 Teaching and Learning, which continues to be available for self-guided learners. Participants learned about the practical applications of new technologies such as smartphones and tablets, social media, big data and learning analytics, telecommunications, wearable technology, and a variety of additional educational tools for their daily work as K-12 educators.

The second course, Humanizing Online Instruction: Building a Community of Inquiry, was a four-week Micro-MOOC made available in November on the Canvas Open Network to all those who were interested. This course helped online instructors of college and university courses replicate within an online environment the sense of connectedness and community that engages and retains classroom-based students. Cornell University and Princess Nourah University in Saudi Arabia are also participating in the course.

"MOOCs really set UTA apart as a world-class university that draws from the global learning community while teaching to that same community at the same time," says Pete Smith, UTA's vice provost for digital teaching and learning.

The two courses were developed by UTA's Learning Innovation and Networked Knowledge (LINK) Research Lab.



IN CONTROL

GAME ON

Innovative study allows kids to make a game of practicing self-control

Asking kids to harness their seemingly endless supply of energy can be an exercise in futility. Children have limited attention spans and perhaps even less self-control.

"Attention and self-regulation are critical for academic success and general health and well-being," says Catherine Spann, a research scientist in social and affective computing in the LINK Research Lab and principal investigator of the study. "If we understand the different states related to attention and self-regulation, we could develop targeted interventions for children and adults."

To that end, Dr. Spann and her team are studying the ideal physical and mental states for practicing attention and self-control by combining computer-game testing with ongoing simultaneous analysis of heart rate and skin activity. Spann is conducting the study in collaboration with the Fort Worth Museum of Science and History.

"We need to better understand the core of learning," says George Siemens, executive director of the LINK Lab. "Dr. Spann's work gives us important insight into how the mindsets and self-regulation of students impact their ability to learn."



For two weeks in June, UTA will host the 2017 ExxonMobil Bernard Harris Summer Science Camp. Middle school students interested in STEM fields have the opportunity to explore STEM topics while experiencing college life at the same time.

ILLUSTRATION BY DAN PAGE

CULTURAL FOCUS The Native American Student Association held its 22nd annual Powwow in March, an event celebrating American Indian culture and heritage. Proceeds benefit the Native American Student Association scholarship fund.

BETTER CHEMO

DRUG UPGRADES

New research into thiopurine drugs could improve chemotherapy for cancer patients

UTA biochemists have created new hope for the large number of patients dependent on thiopurine drugs by discovering how these drugs work.

This knowledge could lead to an improvement of those drugs, which are commonly used to treat autoimmune disorders and cancers, but are also associated with side effects like cardiovascular disease and hypertension.

The researchers showed that thiopurine drugs connect with Rac1 proteins within the immune system's T cells via a disulfide bond. This bond deactivates the

proteins and suppresses the cells' immune response. The study also demonstrated that thiopurine's disulfide bonds can affect vascular functions.

"Up to now, no one has known exactly how the thiopurine immunosuppressive process works," says Jongyun Heo, associate professor of chemistry and leader of the study published in the *Journal of Biological Chemistry*. "We are hoping that this discovery also creates an opportunity to improve thiopurine drugs and to design new chemotherapeutic agents for autoimmune disorders."

Postcard

Following Mavericks as they travel the world



Seoul, South Korea

WHO: Melanie Mohler, visual communication major/Korean minor

HOW: Curiosity, a longing to travel, and a Betty and Roger Ruch Study Abroad Scholarship through the Charles T. McDowell Center for Critical

Languages and Area Studies

WHY: "Because I wanted to get to know more about a beautiful and interesting place. I feel that it's morally responsible to contribute to our global society by learning a different

language. It also has potential to increase opportunities further down the road, helping me build more connections in my career or friendships."

LESSONS SHE TOOK BACK HOME: "Studying abroad helped me

grow as a person, and I feel more confident about myself. It's so enlightening to feel that vulnerability and naivete because it pushes you to survive. You will also appreciate your own country and culture, along with theirs, even more."



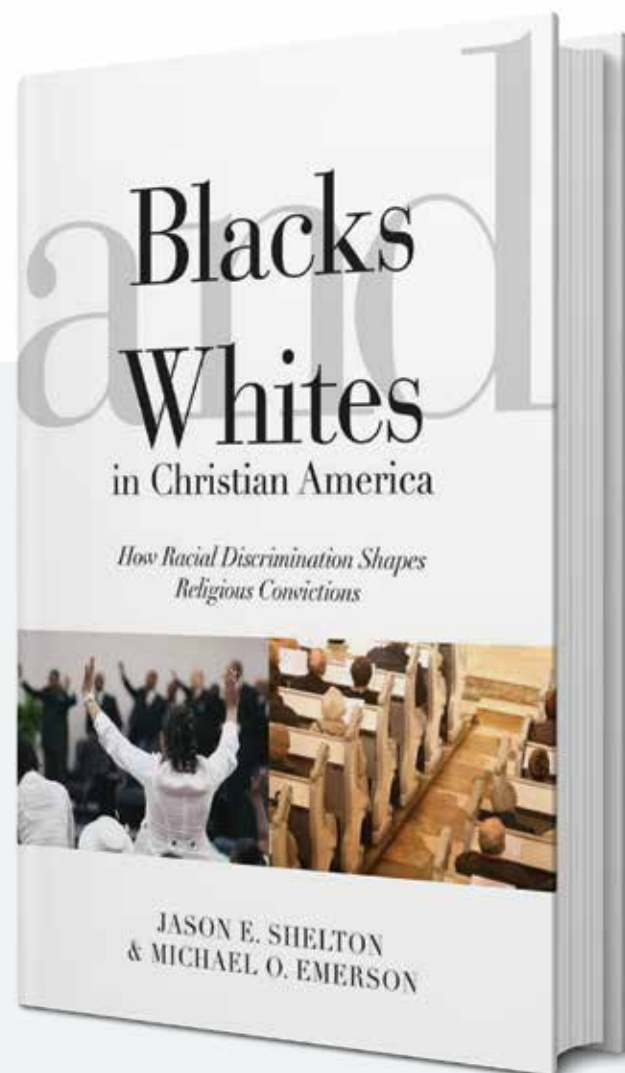
Melanie Mohler (far left) and friends stop for a photo op on the streets of Seoul.

Well Read

Fascinating books by Maverick authors to fill your library

Blacks and Whites in Christian America: How Racial Discrimination Shapes Religious Convictions

BY JASON SHELTON, ASSOCIATE PROFESSOR
Winner of the C. Calvin Smith Book Award from the Southern Conference on African American Studies. Jason Shelton and Michael Emerson explore why racial differences in belief and practice exist among white and black members of American Protestantism.



Fertility Holidays: IVF Tourism and the Reproduction of Whiteness
BY AMY SPEIER
ASSISTANT PROFESSOR

Fertility Holidays examines the experiences of white, working class North Americans who travel to Central Europe for donor egg in vitro fertilization.

WHAT ARE YOU READING RIGHT NOW?

Are you reading a book by a UTA author? Did you write your own tale of wit and wonder? Let us know at utamagazine@uta.edu.



The Shores of Tripoli: Lieutenant Putnam and the Barbary Pirates
BY JAMES L. HALEY
'75 BA, POLITICAL SCIENCE

The Shores of Tripoli, the first novel in a series, features young midshipman Bliven Putnam as he begins his naval service aboard the U.S.S. Enterprise.



The Complete Guide to Bird Photography: Field Techniques for Birders and Nature Photographers
BY JEFFREY RICH
'11 MA, SCIENCE/CURRICULUM

Jeffrey Rich details the tools you will need to capture artful and evocative images. He also shares insights on bird behavior that will help capture images of even the most elusive subjects.



Labor of Love: Gestational Surrogacy and the Work of Making Babies
BY HEATHER JACOBSON
ASSOCIATE PROFESSOR

In *Labor of Love*, Heather Jacobson offers a critical analysis of attitudes that emerge when the act of bringing a child into the world becomes an occupation.



SAY HOWDY

GROWTH GUIDANCE

Introducing UTA's new vice president for enrollment management

When you're in the middle of surging growth, you need someone to help manage the rise. That's Troy Johnson, UTA's new vice president for enrollment management.

"UTA is such a dynamic university, and the leadership team, deans, faculty, and students are such a great mix of talent and dedication," he says. "Who wouldn't want to be part of that?"

Dr. Johnson joined UTA in November after three years as associate vice president for enrollment management at Illinois State University. While there, he led the university to three years of record-breaking enrollment. Before that, he held posts at the University of North Texas, West Texas A&M University, and Texas Tech University. Johnson is the only three-time winner of the Texas Higher Education Coordinating Board's Star Award for documented impact on student access and success in college, and he has a long track record of service in higher education, including roles in the U.S. Department of Education, the Texas Education Association, and more.

"Our students are graduating, getting jobs, enrolling in their dream graduate schools. That's the promise that UTA offers," he says. "These essential attributes are going to get even better over time, and we'll see our students climb to even greater heights."

POCKETBOOKED

LOW DEBT, HIGH SUCCESS

UTA's graduates are entering the workforce with the lowest student debt in Texas

A college graduate is perhaps as close to achieving the American dream as a person can be. Diploma in hand, the graduate looks out into a future where all things are possible. But for the majority of college graduates, debt threatens to undermine that bright future. It's a major reason why The University of Texas at Arlington has worked diligently to ensure that its students graduate with low debt, ready to achieve and succeed in the workforce.

In *U.S. News & World Report's* 2017 "Best Colleges" list, UTA ranked No. 2 in the nation for graduating students with low debt. The average debt of UTA students upon graduation outshines that of students at Yale, Harvard, North Carolina State University, and the University of California, Berkeley, fellow Carnegie R-1 "highest research activity" universities. Only Princeton, a private university, ranked higher than UTA.

The rankings were based on the class

of 2015 at 125 national universities. Data included information from financial institutions and from federal, state, and local government reports.

At UTA, low cost and excellence go hand in hand. Students learn from world-class faculty and benefit from unprecedented access to research opportunities, internships, and leadership development. Meanwhile, the Office of Financial Aid assists with loans, grants, scholarships, and work-study. The Student Money Management Center teaches students how to manage their money with a focus on saving and budgeting.

After four years, UTA students are ready to graduate miles ahead of the crowd. Instead of worrying about paying off massive amounts of debt, they can focus on their careers, travel the world, and maybe even catch up on lost sleep they incurred as undergraduates—dreams well within reach.



UTA was one of only 63 institutions in the nation on Phi Theta Kappa's 2017 Transfer Honor Roll. The honor roll recognizes excellence and success in the development of community college transfer pathways.



MUSSEL MAN

STRIPED INVADERS

Researcher heads study into the proliferation of zebra mussels in Texas lakes

Robert McMahon, UTA professor emeritus in biology and expert in freshwater and marine invertebrates, is expanding his research into the local spread of zebra mussels.

Zebra mussels are small bivalve mollusks about the size of a human fingernail, though some can grow to nearly 2 inches. Their invasion of North American water bodies has resulted in billions of dollars being spent in ecological services, human recreation, and in mitigation and control of mussel fouling in potable water, power stations, and industrial raw water facilities.

“A female zebra mussel can produce up to 1 million externally fertilized eggs in a single spawning season that develop into planktonic larvae,” says

Dr. McMahon. “The larvae are dispersed in water currents and rapidly develop in very high densities after invasion.”

McMahon and his team will use monthly samples from three infested Texas lakes—Texoma, Ray Roberts, and Belton—to estimate spring and fall cohort growth rates and life spans of zebra mussels, among many other factors. His team is also taking a closer look at instances when rapid surges of zebra mussel populations have been followed by sharp declines.

“We’re focusing on understanding the causes of the zebra mussel population collapses that have occurred in Texas lakes and other warm, southwestern water bodies,” McMahon says. “We expect mussel population to decline over time.”



CHART TOPPER

MAPPING HISTORY

Alumna makes her own history at the Library of Congress

Paulette Marie Hasier ('04 PhD, History) is used to studying history, not making it. But as the first female chief of the Geography and Map Division at the Library of Congress, she finds herself changing the topography of library and information sciences.

Dr. Hasier began her career at the Dallas Public Library in charge of special collections archives, documenting the city’s history before working her way through key private-sector positions and federal government service as a geospatial intelligence analyst.

“Dr. Hasier is an outstanding demonstration of what it means to be a Maverick—dedicated, talented, and committed to doing the best job possible,” says Scott W. Palmer, professor and chair of UTA’s Department of History. “We are extremely proud of what she has achieved and to count her among our many successful alumni.”

With nearly 20 years of library and geospatial information program management experience, Hasier has managed an estimated 1 million maps at both the U.S. National Geospatial-Intelligence Agency and at the Pentagon Map Library. Now, she leads a team responsible for one of the world’s largest map collections, holding some 6 million cartographic items dating back to the 14th century.



Talk

Oluwatoba Toye-Abdul
Junior, Mechanical Engineering / Information Systems
Hometown: Ibadan, Nigeria

UTA has over 50,000 students—that’s the size of a small city. I thought it would be cool for a college with such a large population and diversity to have something exclusive.

Why are you pursuing a degree in mechanical engineering?

Growing up I was very curious and was fascinated by the way things worked. I thought it was really cool how something as small as a calculator could compute numbers faster than the human brain. This curiosity led me to choose engineering. I wanted to learn how things worked

and create an improved version.

You developed an app, CampusGlue. Tell us more about what your app does.

Our app started as Maverick Connection. It is a networking app for UTA students. We launched the first version last spring and got wonderful feedback. My cofounders thought if Mavericks liked it, students in other schools would love it. We decided to rebrand and changed our name to CampusGlue.

How were you inspired to develop this app?

UTA has over 50,000 students—that’s the size of a small city. I thought it would be cool for a college with such a large population and diversity to have something exclusive. The app was also a solution to a problem I faced during my freshman year: I found that quick communi-

cation with classmates was almost impossible, so I decided to fix that. I then convinced my freshman-year roommate and another mutual buddy to join me.

From inception, how long did it take you and your team to build it?

The initial design took a few minutes. We drew the first version on toilet paper at Cici’s! The development of the first version took five weeks.

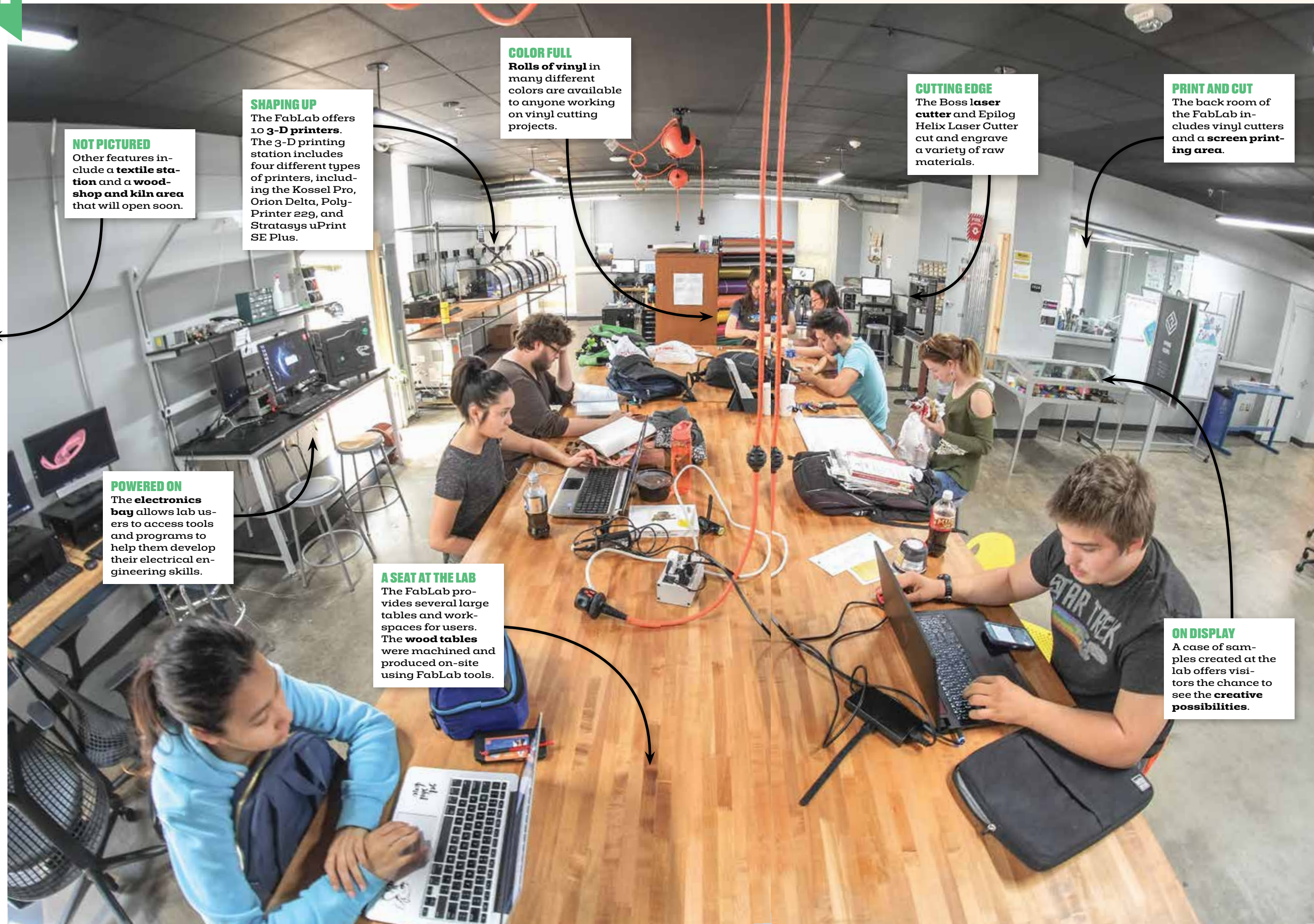
Why do UTA students need this app?

Many reasons! Not only does CampusGlue provide an e-directory of all students, you also get to meet new people and connect with classmates and friends within seconds. It also has utilities that students are likely to need. Our goal is to bring the entire college community to the fingertip of students.

Where can students buy it?

The app is completely free. Students can download it through the Apple App Store.

More than 20 graduate programs are listed among the nation’s best in U.S. News & World Report’s 2018 rankings. The College of Engineering received its highest ranking ever—No. 73 out of 198.



NOT PICTURED
Other features include a **textile station** and a **woodshop and kiln area** that will open soon.

SHAPING UP
The FabLab offers 10 **3-D printers**. The 3-D printing station includes four different types of printers, including the Kossel Pro, Orion Delta, Poly-Printer 229, and Stratasys uPrint SE Plus.

COLOR FULL
Rolls of **vinyl** in many different colors are available to anyone working on vinyl cutting projects.

CUTTING EDGE
The **Boss laser cutter** and Epilog Helix Laser Cutter cut and engrave a variety of raw materials.

PRINT AND CUT
The back room of the FabLab includes vinyl cutters and a **screen printing area**.

POWERED ON
The **electronics bay** allows lab users to access tools and programs to help them develop their electrical engineering skills.

A SEAT AT THE LAB
The FabLab provides several large tables and workspaces for users. The **wood tables** were machined and produced on-site using FabLab tools.

ON DISPLAY
A case of samples created at the lab offers visitors the chance to see the **creative possibilities**.

Scene

FabLab
Main Campus:
Central Library

A creative hub for students, faculty, staff, and recent alumni, UTA's FabLab—the first MIT-affiliated FabLab in a Texas university—takes up 8,000 square feet of the Central Library's first floor. The FabLab provides users access to technologies, equipment, training, and opportunities for interdisciplinary collaboration in support of invention and entrepreneurship. Lab use is free; users only pay for materials. fablab.uta.edu



BY THE NUMBERS
LEGENDARY WOMAN

UTA professor is a leader in mathematics and STEM

It's not every day that a person gets "legendary" added to their resume, but that's exactly what happened for Minerva Cordero-Epperson late last year. The professor of mathematics and associate dean for academic affairs in the College of Science was honored by Ford Motor Company as a *Mujer Legendaria*.

Dr. Cordero-Epperson was recognized for excellence in teaching and a decades-long commitment to increasing diversity in science, technology, engineering, and mathematics, or STEM, programs. She was one of four in North Texas to receive the honor.

"My passion for creating awareness of the value of STEM degrees and careers is fueled by my interactions with students and parents," she says. "I am very grateful to be working at UTA, where diversity and the pursuit of excellence embody our commitment to the community."

Cordero-Epperson joined UTA in 2001 and has served in a number of national leadership roles focused on diversity in science fields. Her accolades include the Regents' Outstanding Teaching Award from The University of Texas System and the Texas Section Award for Distinguished College or University Teaching of Mathematics. In October 2016, at the Hispanic Engineer National Achievement Awards Conference, Cordero-Epperson was awarded the Great Minds in STEM Education Distinction.

JOB SHOP

A NEW NAME IN THE CAREER GAME

Introducing the Lockheed Martin Career Development Center

Students and alumni, take note. The Career Development Center has a new name: the Lockheed Martin Career Development Center.

"We joined forces with UTA because it has the resources and the ability to shape young minds into career-ready individuals," says Rick Edwards, executive vice president of Lockheed Martin Missiles and Fire Control. "In addition to providing support and mentorship for future graduates, the center's services are available to alumni."

The Career Development Center opened in the fall of 2016 and consolidated many of the initiatives already in place on campus that help Mavericks transition from life as a student to life in the workforce. Located in the E.H. Hereford University Center, the facility also allows UTA to put in place new pro-

grams that rival many of the best career development programs in the country. Services include an alumni mentorship program, in which area professionals volunteer to make a difference in the early stages of a student's career path.

"We have more than 1,300 UTA alumni working at Lockheed Martin in North Texas," says Orlando Carvalho, executive vice president of Lockheed Martin Aeronautics. "The Lockheed Martin Career Development Center helps bridge the transition from academic preparation to professional success."

The center was officially named in honor of Lockheed Martin's generous \$1.5 million gift during a special ceremony on March 20.

To learn how you can get involved and support the Lockheed Martin Career Development Center, visit uta.edu/careers.



To meet the rising need for construction management workers in North Texas, UTA is now offering a bachelor's degree in construction management. The degree is the first of its kind in the area.



Crash Course

ENGL/AAST 3347 The Life and Times of S. Carter (Ethnic Literature)

JAY Z: Rap icon, husband to Beyoncé, and...a major figure in ethnic literature? In Assistant Professor Kenton Rambsy's *The Life and Times of S. Carter* course in the Department of English, students are approaching the work of Jay Z (aka Shawn Carter) through that lens.

"One of the major shifts over the last two decades in Black Studies has been the rise of what we might call hip-hop studies," Dr. Rambsy says.

His course is unique in the way it employs data-driven discovery to explore literature. His students use text-mining software to quantify linguistic and thematic trends between Jay Z's albums and classic literary texts by African-American writers. Then, they compile data sets on Jay Z in order to produce thematic data visualizations, literary timelines, and a list of key terms, pinpointing intellectual and cultural components of rap and hip-hop music.

"It's exciting to place Jay Z in a broader literary context," says Rebecca Newsom, a junior English major. "Also, this course is

giving me hands-on experience accessing, creating, and viewing Jay Z, poetry, and literary history as general data."

Rambsy is eager to bring the hip-hop-as-literature discussion into the world of data.

"I could go on and on describing the discoveries we're making about Jay Z in this course," he says. "Mainly, what I want people to understand is the idea of considering data in hip-hop studies."

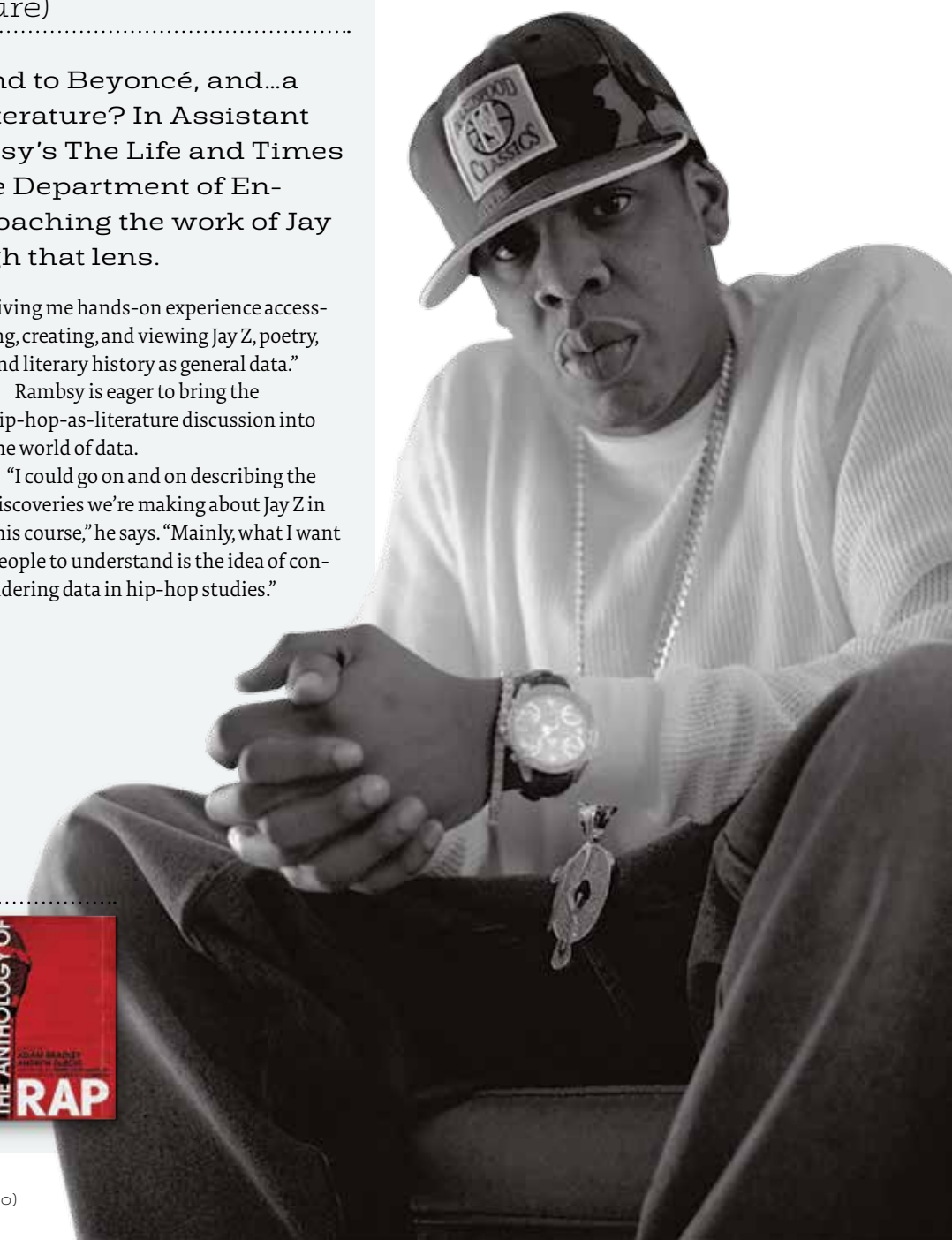
EXTRA CREDIT

Jay Z is only the tip of the iceberg. For over a decade now, many scholars have been interested in studying rap as literary art. For an overview of rap poetics, the forces that shaped each period in rap's historical de-

velopment, and more than 300 rap and hip-hop lyrics written over 30 years, check out *The Anthology of Rap*, edited by Adam Bradley and Andrew DuBois, with contributions by rappers Common and Chuck D.



I could go on and on describing the discoveries we're making about Jay Z in this course.



Gallery

World-class art has a home in the Fine Arts Building on the UTA campus

Dynamic. Defying convention. Right here on campus. In March, The Gallery at UTA featured the *MFA Program 10th Anniversary Exhibition*, featuring 48 works by 25 alumni of the University's Art and Art History Department. The exhibition offered an inspired collection of work in a variety of mediums, including paint, sculpture, video, textiles, and more. While this show closed in early April, you can still catch many other exhibitions throughout the year.

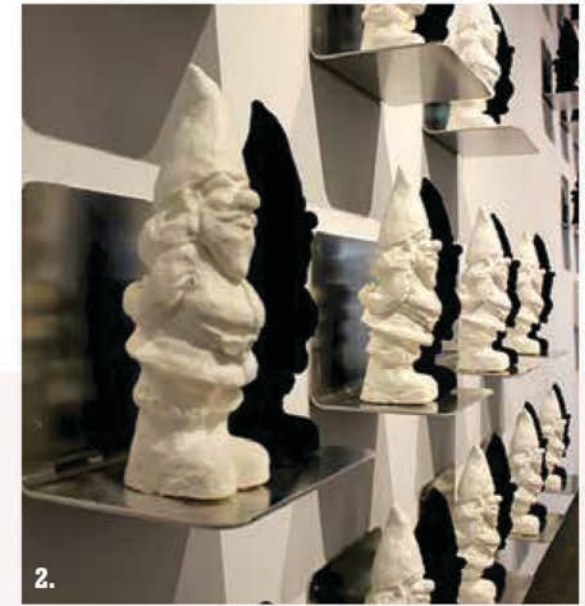


1. AM I HAPPY OR AM I MANIC?
M. Kate H. Shark worked with textiles and hangers to create these pieces.

2. BINARY CODES
Made by Janet Morrow, this display includes 25 white and 25 black gnomes.

3. COYOTE
Laura Garcia shaped her sculpture from aluminum powder and resin.

4. ALL THE WATER THAT WILL EVER BE, IS RIGHT NOW
This glass and metal work was formed by Neal Paustian.





Top left: Linda Bellanger and her son, Frank. Top right: President Vistasp Karbhari and Lisa Karbhari. Bottom: John Hall, vice president for administration and campus operations, and family.

YEEHAW

RIDING OFF INTO THE SUNSET

Reflections on UTA's second annual Day at the Rodeo

Alumni and friends of the University dusted off their boots and saddled up for the second annual UTA Day at the Fort Worth Stock Show and Rodeo on Jan. 22. More than 170 attendees enjoyed a catered traditional barbecue lunch at the Fort Worth Museum of Science and History while spinning tall tales and listening to President Vistasp Karbhari provide brief remarks about UTA's recent progress.

"It's important to connect alumni and friends through marquee community events like the Fort Worth Stock Show and Rodeo," says Michael Kingan, vice president for development and alumni

relations. "These are great opportunities to convey a sense of UTA today, our growth, our excellence, and our impact. UTA's alumni help us spread the word about UTA, so keeping them aware of our progress is critical to our success."

The group moseyed on over to the Will Rogers Coliseum to catch all the live rodeo action after lunch and enjoyed an afternoon of traditional Western entertainment.

"UTA Day at the Rodeo has become a special event," says Love Kelly ('17 MSW). "It's a great time to meet new Mavericks and hear how my alma mater continues to make a difference in our community"

Collected

The Ramey Memo Roswell UFO Incident from the Fort Worth Star- Telegram Collection

In 1947, a mysterious object crashed to Earth in Roswell, New Mexico. While it was later identified as a weather balloon, that object has captured the interest of ufologists in the decades since. One particular point of interest: the Ramey memo, pictured here, which is housed exclusively in UTA Libraries' Special Collections. Through an anonymous donor, Kevin Randle, a UFO researcher with a keen interest in the Roswell incident, is offering \$10,000 to anyone who can definitively decipher the obscured words in Gen. Roger Ramey's hand. *Learn more at library.uta.edu/roswell.*

BIG PLANS Graduate students in the Institute of Urban Studies are formulating a strategic plan for Vickery Meadow, a burgeoning, densely populated neighborhood in Dallas. The plan rebrands the area as a center for innovation and counters the existing negative community perceptions of the neighborhood. The City of Dallas hopes the plan will foster inclusive and sustainable economic growth and area redevelopment.



VOLLEYBALL VIP ATHLETICS ARRIVAL

Wenger tapped as UTA's seventh volleyball coach

New UTA head volleyball coach J.T. Wenger has seen a lot of collegiate volleyball over his career.

A former star at the University of California, Los Angeles, Wenger has made assistant coaching stops at his alma mater, the University of Colorado, and Michigan State. On Jan. 25, Wenger became the seventh head coach in UTA volleyball history.

Wenger is a two-time Thirty Under 30 selection by the American Volleyball Coaches Association, which honors the top young coaches in the sport.

"Upon visiting the UTA campus, it became clear that athletics are a priority for this University and there is tremendous and contagious passion in the athletic department," Wenger says. "I look forward to beginning the next chapter in UTA volleyball by developing great student-athletes and great people."

Wenger takes over at UTA for Diane Seymour, who served as head coach from 2004-16.

"We are thrilled to open a new era of UTA volleyball under J.T. Wenger," says Jim Baker, director of intercollegiate athletics. "J.T. brings a wealth of experience, has a passion for sport, and has the vision to take the program to unprecedented heights."



This behind-the-scenes view of a Univision news-cast provides invaluable training and experience for many of UTA's aspiring broadcast news journalists.

NEWSIES

LIGHTS, CAMERA, ACCIÓN

Communication students at UTA get unique opportunity for hands-on newscast experience

UTA News en Español students are getting their 15 minutes of fame on Spanish-language television station Univision 23 in Dallas. The station, located in the fifth-largest media market in the United States, allows students from UTA to report, anchor, produce, and direct on-air television newscasts.

As part of the flagship program Proyecto U, students receive college credit for producing television news segments under faculty supervision and professional mentorships. According to Julian Rodriguez, UTA News en Español faculty adviser, the program was developed to teach students to serve the growing Hispanic media market.

“Through Proyecto U, students experience the urgency and impact of the professional broadcast journalism environment hands-on and well before they graduate,” Rodriguez says. “It’s a once-in-a-lifetime opportunity unlike any other in the nation.”

Sophomore Maritza Esquivel is a student producer with Proyecto U. She counts working directly with professional broadcasters as a major benefit of the program.

“The time and advice they give us is priceless,” Esquivel says. “I hope to learn as much as possible from them and be prepared for a career in broadcasting by the time I graduate.”



OUR HERO

PUBLIC HEALTH DEFENDER

Alumnus protects the health of Dallas County

For Christopher J. Perkins ('93 BA, Political Science), the mild wave of panic caused by the spread of the Zika virus in 2016 assured him that his career in preventative medicine was exactly the right choice.

Dr. Perkins serves as the health authority/medical director for Dallas County Health and Human Services. He was instrumental in Dallas County’s response to the West Nile virus outbreak in 2012 and the Ebola crisis in 2014. Perkins oversees the epidemiology staff responsible for investigating communicable diseases and performing contact tracing and monitoring. He also leads several divisions, including tuberculosis elimination, STD/HIV, refugee health, immunizations, employee health, environmental health, and public health preparedness.

“My role is to protect and educate the citizens of Dallas County,” Perkins says. “My time at UTA taught me how to communicate effectively with large populations and gave me a solid foundation to complete my Master of Public Health and my doctorate in osteopathic medicine. Each step in my education gave me a comprehensive approach to fighting infectious disease.”

Top Prof

Holly Hungerford-Kresser
Associate Professor,
Curriculum and Instruction

BACK IN A high school English classroom, Holly Hungerford-Kresser was working to inspire young minds, teaching her students how to access literature and learn from it and how to express themselves through the written word. She was already changing lives, but she wanted to do that on a larger scale. The next step came to her fairly easily: teaching the teachers.

“For me, working in teacher education is the most vital way to make an impact on the educational system,” she says. “Preparing teachers to enter the classroom equipped to make a difference in students’ lives is imperative.”

Dr. Hungerford-Kresser, now an associate professor in the College of Education, has been with UTA for nine years. Her research focuses on college and career readiness, particularly for underserved and first-generation students. Her ultimate goal, in both research and teaching, is to create lifelong learners.

“Students learn by doing, no matter the level of the educational pipeline,” she

says. “I am a supervisor and a facilitator, and I ask the difficult questions. However, my students are the managers of their own learning.”

Last year, Hungerford-Kresser, a fellow of the Greater Texas Foundation, received an excellence in teaching award for a tenured faculty member from the College of Education.

“Our college is committed to the school systems in our country and to helping our students find success,” she says. “Our goal is for students to become committed and compassionate educators who contribute to and change the face of education, one student at a time.”



Preparing teachers to enter the classroom equipped to make a difference in students’ lives is imperative.

SPORTING MAVS



SPOTLIGHT REBEKAH VANDIJK

The athlete is proving herself to be one for the history books

Rebekah VanDijk has established herself as one of the greatest Lady Mavericks in the history of women's basketball at UTA, accumulating the records on a weekly basis across both UTA and the Sun Belt Conference.

VanDijk became the 18th player in UTA history to score more than 1,000 points. She is a two-time selection to the conference's All-Conference first team and the 2016-17 SBC Preseason Player of the Year. At the close of the season, she was third in the conference for scoring and rebounding—and the lone player in the conference to be in the top three in both categories.

"I am so proud of her and everything that she has accomplished," says Krista Gerlich, head coach for women's basketball. "What she has done in three years has been incredible. She will go down in the record books as one of our all-time greats and, luckily for us, she is not done and will continue to lead us."

HIGHLIGHT REEL

The men's cross country team claimed its fourth Sun Belt Conference (SBC) championship in five years. Senior Craig Lautenslager won his second SBC title for the 8k.

Senior Zach Galliford captured golfing's Welsh Amateur Championship.

The first Nancy's Night raised more than \$45,000 for the Nancy Baker Memorial Women's Golf Scholarship.

The men's indoor track and field team won the SBC championship. The women's team was runner-up.

Coach John Sauerhage earned his 30th Coach of the Year conference honor in cross country and indoor/outdoor track and field.

BATTER UP BASEBALL FEVER

Birds are singing, flowers are blooming, and the lights are bright at Clay Gould Ballpark

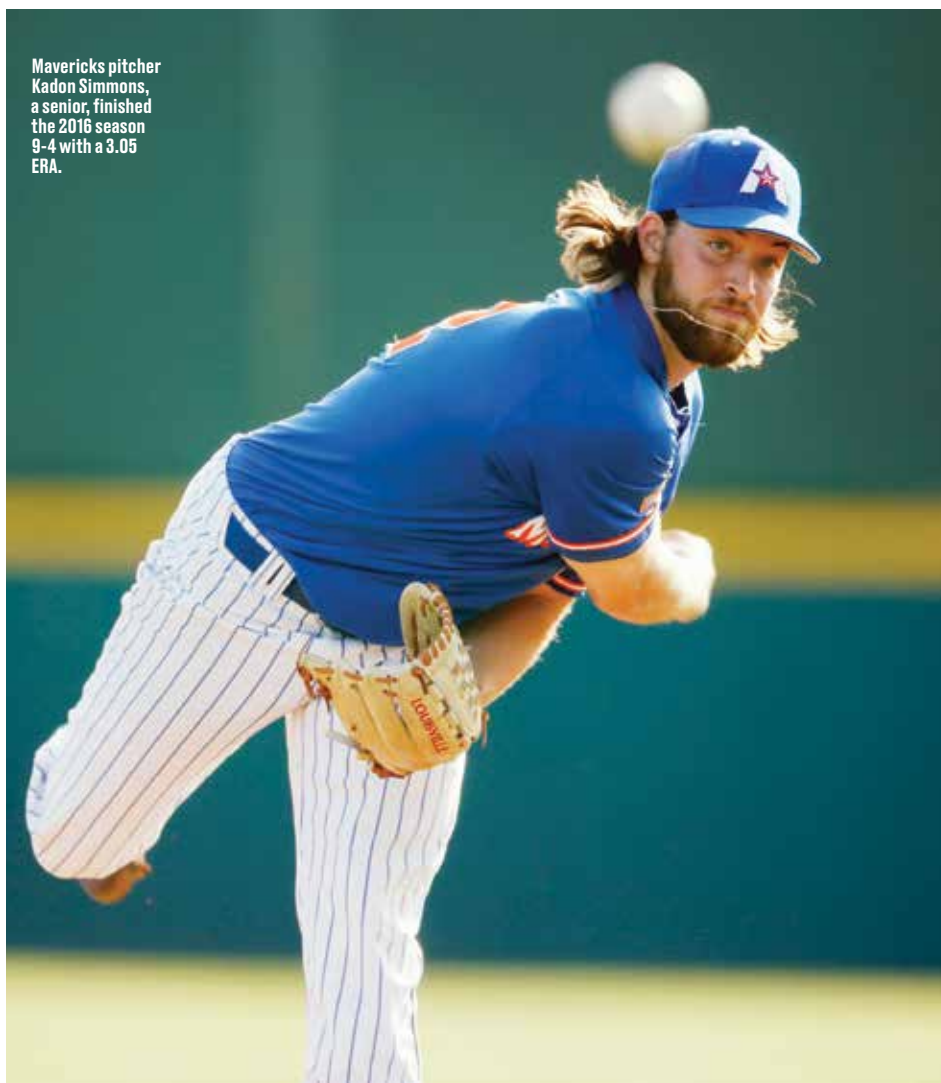
Baseball in Texas is big business. That's no different for UTA, which will wind down its fourth season in the rugged Sun Belt Conference this spring.

The Mavericks have built a strong program, with a club that has appeared in six NCAA tournaments, won six conference regular-season titles, and had five players earn All-America honors.

In his 10th season at the helm, head coach Darin Thomas boasts a veteran roster that includes standout seniors Kadon Simmons and Brady Cox. Simmons, UTA's Friday-night starter, led the Sun Belt in wins in his first season

at UTA in 2016. Behind the plate, UTA is boosted by Cox, who was tabbed as a semifinalist for the Johnny Bench Award, given annually to the nation's best catcher.

One of UTA's great challenges each season is the competitive schedule, courtesy of the talent in Texas. In 2017, UTA faced 11 games against top-20 foes in the preseason, including three games against the nation's unanimous preseason No. 1, TCU. In previous seasons, the Mavs have earned 32 victories over top-10 opponents, including No. 7 Oklahoma State and No. 5 TCU in 2016.



Mavericks pitcher Kadon Simmons, a senior, finished the 2016 season 9-4 with a 3.05 ERA.



MAV CITY

HOOP DREAMS REALIZED

Record-breaking seasons, historic achievements, and more for UTA's basketball teams

A NEW ERA for UTA basketball is well underway as the Maverick men concluded their most successful season yet, the Maverick women made program history, the men's wheelchair team won another national championship, while the women's wheelchair team got very close.

Under the direction of Coach Scott Cross, the Maverick men's team won a program-record 27 games, claimed its first-ever Sun Belt Conference championship, and advanced to the quarterfinals in the prestigious National Invitation Tournament. The season featured a number of firsts, including a win over the University of Texas at Austin.

Junior forward Kevin Hervey returned from injury to catch the eye of professional scouts and earned the distinction of being named the program's first-ever Sun Belt Player of the Year. He was the second men's player in team history to earn All-America recognition. Cross was named the conference's Coach of the Year and junior guard Erick Neal finished fifth

in the nation in average assists.

Lady Maverick basketball had a 22-9 season—tied for the third-most wins in program history—and its first appearance in the *USA Today* Coaches Poll. The team headed into the Sun Belt Conference Championship tournament as the No. 2 seed. The University of South Alabama gave the Lady Mavs its first SBC tournament win, but Troy University ended the Lady Mavs' season in the semifinals.

The Movin' Mavs men's team won its eighth national championship in March, the first in 11 years and the first under Coach Doug Garner. The Lady Movin' Mavs concluded a stellar regular season, taking second in the nation after a loss to the University of Alabama.



ENTRANCE

Black and white and read all over campus. Read all about *The Shorthorn*, UTA's student newspaper.
BY HILLARY GREEN ILLUSTRATION BY PHIL WRIGGLESWORTH

ENTRANCE

In a quiet newsroom, a computer monitor blinks to life, a precursor of the activity to come. Some 50 writers, editors, photographers, and designers descend to the E. H. Hereford University Center basement. Soon the room is bustling as staff members produce content for *The Shorthorn* website—which already has more than 1.2 million views this academic year—and for the 10,000 newspapers distributed weekly around the campus and to local businesses.

The Shorthorn is a compilation of news and events happening around the UTA campus, but in the hands of the reader, it becomes something else: not only a compendium of information, but also access to the bigger picture of life at UTA and a strengthened connection to the Maverick community.

Now in its 98th year of publication, the newspaper embraces the dichotomy of the journalism industry at large, where tradition and evolution must stay in lockstep. *The Shorthorn's* dedication to staying true to journalistic fundamentals while pushing boundaries is evident in the prodigious skills students develop while working there. The journalists, designers, multimedia staff, and communication experts of tomorrow are honing their crafts on the UTA campus today.

NATIONAL AWARDS

These exceptional skills have garnered national attention for the students, who

were recognized last October with a second Pacemaker award. Given by the Associated Collegiate Press, the Pacemaker is the pre-eminent recognition given to collegiate student media. News organizations are judged on a variety of factors, including consistent excellence in editorial judgment, reporting, editing, design, and photography.

“We have all those things and more, and we always strive to be the best. That's why we won again,” says organizational communications senior Anna Gutierrez, who served as *Shorthorn* editor-in-chief from May to December 2016.

While the recognition is always appreciated, Gutierrez and her fellow “Shorties”—a nickname for staff members—keep their focus on producing a quality product.

“I was excited we won, but we have to keep working at it,” she says. “We have to keep doing the best journalism we can.”

In addition to the Pacemaker, *The*

Shorthorn was honored with more than 75 state, regional, and national awards for its online and print work during the last academic year.

Consistency in reporting, photography, design, and editing are key to the paper's success, both in awards and in circulation. Laurie Fox, *Shorthorn* editorial adviser and *Shorthorn* alumna, says tradition also plays a role.

“We don't have to keep reinventing the wheel because we do it right the first time,” Fox says.

That tradition has built an extensive network of alumni and supporters. Hundreds of *Shorthorn* alumni now serve in a number of roles at news organizations across the state and nation, including *The New York Times*, *The Washington Post*, *The Dallas Morning News*, *The Texas Tribune*, *USA Today*, and *The Star-Telegram*.

Building on this tradition, alumni

give back to the University by sharing their professional expertise with *Shorthorn* students. Director of Publications Beth Francesco, also a *Shorthorn* alumna, says the paper brings in over 50 speakers with professional journalism and communications backgrounds each year. No matter what industry the speakers are from, Francesco says they all have the same message for students: Know how to do everything.

DIGITAL FIRST

At *The Shorthorn*, knowing how to do everything includes all things digital. According to a 2016 study by the Pew Research Center, 38 percent of Americans often obtain their news

online. News received via a mobile device reaches up to 72 percent of users. After taking a survey of *Shorthorn* readers, the paper found that their audience was similar: They wanted the news, and they wanted it delivered directly to them.

The Shorthorn made the change to a digital-first strategy in 2012. The paper was one of the first five student papers in the nation to make the switch from daily to weekly print publications.

To ensure the important news of the day was still being delivered to

the UTA community, the paper created a daily e-newsletter. The digital publication has built its audience to over 55,000 daily subscribers.

“We enhanced our print and gave it more of an identity.”



The newsroom is often filled with students working toward the next deadline.

FROM THE SOURCE

LAURA WOODSIDE '15
Editorial Designer with
Observer Media Group

"At *The Shorthorn*, we were taught to always think digital first—how can I get the most accurate story to my readers as quickly as possible on whichever medium necessary?"

MAX BRIESE '15
Digital & Social Analyst
with Moroch Partners

"I learned a lot about advertising and marketing while working for *The Shorthorn*, but the most important thing I learned in my time there was how to take pride in what I do. That's *The Shorthorn's* culture."

JOHNATHAN SILVER '14
Criminal Justice Reporter
with The Texas Tribune

"I remember in my early semesters having a bunch of different beats, set up by schools or departments. There was nothing better than the feeling of truly understanding your campus."

DUSTIN DANGLI '12
Communications
Coordinator for the City of Colleyville

"Now storytellers need to use text, photo, video, and interactive websites to tell a story. Working at the digital-first *Shorthorn* helped me embrace those skills."

While many schools have completely abandoned printing papers altogether, *The Shorthorn* holds on to the tradition of the paper while embracing new technology.

"We didn't ditch our print," Francesco says. "We enhanced our print and gave it more of an identity than it had before."

What the Shorties report on hasn't changed, just how it's being presented to

CREATIVE SKILLS

In addition to a digital-first strategy, *The Shorthorn* saw a window to expand initiatives while increasing experiential learning opportunities for students. Creative Services, housed under Student Publications, utilizes the paper's existing training, facilities, and equipment in an innovative way to meet commercial photography and videography needs across

through their work at *The Shorthorn* and Creative Services prepare UTA graduates to enter the workforce a notch ahead of their competitors.

NEXT-GENERATION JOURNALISM

In an era of fake news and a lack of trust in the media, *The Shorthorn* is preparing students with the skills needed to excel



Kristianna Davied, copy desk chief, and Cody Bahn, digital managing editor



Sorayah Zahir, associate news editor



Narda Perez (left), news editor, and Chanel Sassoon, news reporter



1919

The Shorthorn is established

The first issue debuted in April and was 48 pages long. It featured a bull in a bull's-eye on the cover. From there, the publication was released each month in a 6-inch by 9-inch format.



1921

The format changes

The Shorthorn began to look a little closer to its current iteration, switching from the old format to the traditional newspaper.



1977

The Shorthorn goes daily

Following stints as a biweekly and a weekly publication, *The Shorthorn* went daily in '77.



2012

Digital shake-up

In fall 2012, *The Shorthorn* switched to a multiplatform, digital-first publication, transitioning to a publishing schedule that includes daily online publication and a weekly print edition.

FIT TO PRINT: THE EARLIER YEARS

the readers. Campus events like Oozeball will always be an opportunity for exhilarating and inspiring photography. Those photos no longer depend on column inches available, but on online multimedia galleries. Student reporters still hustle for breaking news, now alerting the UTA community via the paper's Twitter account instead of the next day's paper.

Fox says no matter the platform, it all starts with solid content.

"It all has to be good," she says. "The delivery model has to be strong. We have to link it to strong content, and it has to drive traffic."

campus.

Students working in Creative Services gain experience working with clients, developing storyboards, and responding to customers' needs.

"It provides students who want to learn multimedia skills an opportunity to do that without necessarily being journalism-related," says Gutierrez.

Students working in Creative Services are able to garner hands-on knowledge of how corporate communications and multimedia operate before they even graduate.

The experience and skills gained

"It provides students who want to learn multimedia skills an opportunity to do that."

in their industry.

"With the next wave of journalism I think it's all about community and source development," Gutierrez says. Working with UTA and the City of Arlington, Shorties build trust by cultivating relationships with the officials on their beat, as well as the community around them.

As *The Shorthorn* grows, the strength of the student reporters grows as well. By creating a culture dependent on the ability to be adaptable and nimble, students enter the workforce with a passion for journalism and experience in pushing for something new.

Adviser Fox sums up the ethos of *The Shorthorn* aptly, saying, "We go toward the news and we hope for the best." **UTA**

IN THE KNOW Keep up with the latest UTA news by visiting *The Shorthorn* online. theshorthorn.com



SERVING THOSE

The brave men and women who work to preserve our freedom deserve to pursue their dreams. UTA is dedicated to ensuring that veterans have every opportunity for success.

BY TERESA
WOODARD SCHNYDER

WHO SERVED





GEORGE YOUNG can still remember the mix of emotions in his mother's eyes when he raised his right hand and took the oath of enlistment for the U.S. Marines. "She was proud. But she also seemed disappointed. She almost cried," he says. "I told her it was going to be OK because I was still going to go to school. Education was very important to her and my father."

It was 1987. Young was 17 years old. He joined the U.S. Marine Corps right out of high school, completing 11 years of active duty and almost 10 additional years in the Marine Corps Reserve. He was deployed to southwest Asia and Saudi Arabia during Operation Desert Storm in the early 1990s and was re-activated soon after the terror attacks of Sept. 11, 2001.

"I got a call from my sergeant major, and he said, 'They're looking for someone to deploy, and I think you'd be perfect for the job.'" Young says. "When the Marine Corps calls, you don't say no. So about a week later I had orders."

Young had to take military leave from his full-time job at the U.S. Postal Service to deploy as a reservist. He spent 27 years working for the postal service in total and about 20 years in the military. All the while that conversation with his mother weighed on him.

"When I served, I tried to go to school," he says. "I even did courses here and there, but when you're committed to your country, you may be here today and gone tomorrow. So education was always in the back of my mind."

Young relocated several times throughout his service, and his final move brought him to North Texas, where a conversation at church resurrected a desire to fulfill his mother's wishes.

"A couple of church members were UTA alumni. They were talking about how great UTA was, and I realized I didn't live that far from campus," he says. "I started looking on the website and saw they were very veteran friendly. So I decided to go ahead and apply."

Young retired early from the U.S. Postal Service and took his first UTA class during the 2014 spring semester, joining more than 3,000 other military veterans and families on campus. He says the transition to college, even as an older veteran, was smooth.

"It felt almost like going through boot camp again, wondering where I was supposed to check in and where I would go for help, but UTA walked me through the process and made everything easy to navigate," he says. "I was sold."

UTA's commitment to serving those who have served is gaining recognition. *Military Times* named UTA to its "Best for Vets: Colleges 2017" list for the fourth year in a row. On the 2017 list, UTA is No. 20 in the nation and the No. 1 four-year university in Texas for veterans and their families. The rankings are based on a school's culture, academic outcomes and quality, student support, academic policies, cost, and financial aid.

"That No. 1 ranking in the state of Texas is just outstanding," says retired U.S. Army Gen. Benjamin S. Griffin, who also serves as a special adviser to UTA President Vistasp Karbhari. "It just speaks to the commitment that this University, the leadership, and the faculty have to supporting veterans. It's an outstanding achievement of which all of us associated with UTA should be very proud."

In 2012, UTA received a federal grant to implement

the Veterans Upward Bound program. That was a turning point, allowing the University to increase the services available to veterans.

"Veterans have given so much of their time for our country and we owe it to them to help them get back to their futures through education," says Lisa Thompson, senior director of TRiO Pre-College Programs and Veterans Upward Bound.

UTA now has a Veterans Assistance Center on campus. It is a stand-alone building where veterans can apply for and learn about tuition benefits and scholarship opportunities, as well as receive assistance navigating the college experience. A full-time employee of the Veterans Administration works inside the center, helping veterans, active duty military, and eligible family members understand the assistance they qualify for—even before they have decided to enroll.

Young and several other student veterans also work at the center, providing mentoring, tutoring, and counseling their fellow veterans seeking guidance.

"Lots of times veterans have acronyms in their heads. They're used to taking or giving orders, and then you come into a civilian atmosphere where the jargon is different," Young says. "I try to explain things from their points of view."

In 2016, the offerings expanded when UTA was chosen by the Small Business Administration to be the site of a Veterans Business Outreach Center (VBOC). The VBOC connects veterans and their family members with resources to help them be successful entrepreneurs.

"There are 19 VBOC sites across the United States, so for UTA to have one of those 19 centers is an amazing opportunity for UTA and for veterans," says Patrick Alcorn,

director of the UTA VBOC. "Anyone who has worn the uniform has a specific level of quality, specific character traits, a skill set that makes them ideal entrepreneurs."

Alcorn, a West Point graduate who served in the U.S. Army Corps of Engineers, says to simply say thanks to a veteran is not enough. He says the United States needs to ensure veterans can find, get, and keep good jobs after their time in the service ends.

"I transitioned out of the Army in 1991 and started my first business in 2004. That's 13 years that it took me to grasp the system," he says. "Veterans should not have to wait 13 years if they've got a dream in their heart."

UTA's varied and successful programs for veterans are a major point of pride for Rep. Tony Tinderholt, R-Arlington, who represents the University in the Texas legislature.

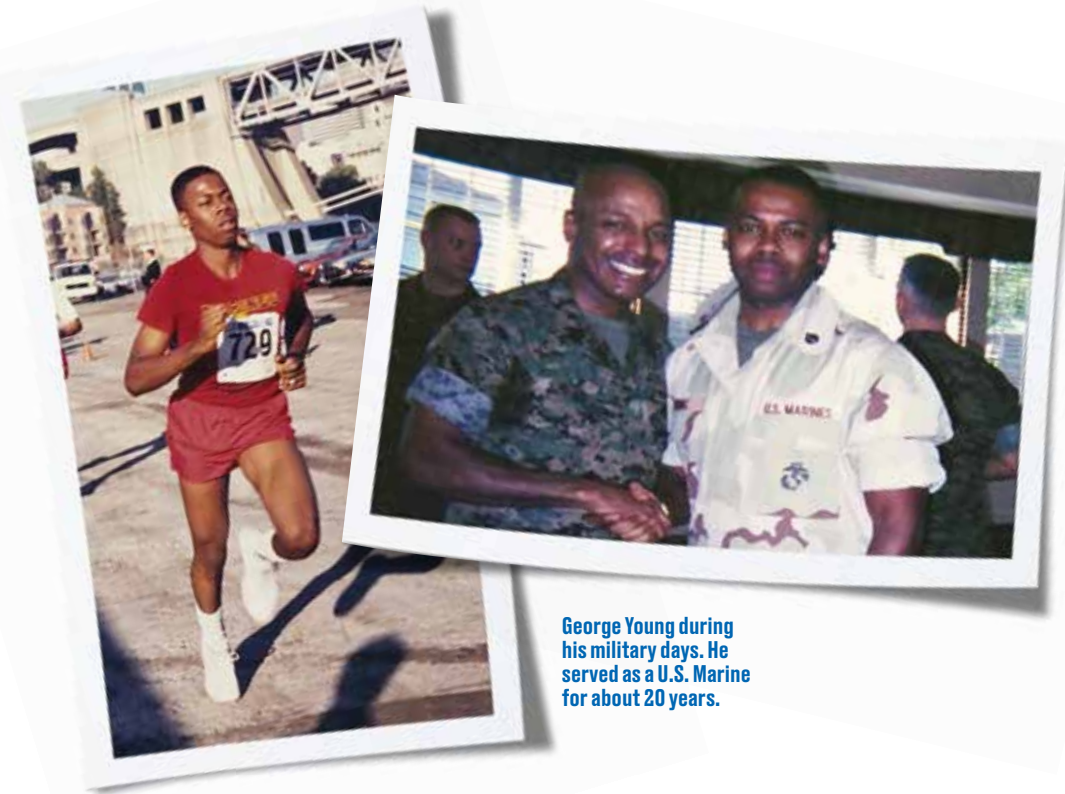
"I served for 21 years. [UTA] supports veterans in every way possible, and I appreciate the fact that they do that," Tinderholt says. "I think it's really important if someone is considering going to a state school in Texas, or any school for that matter, that UTA be at the top of their list."

Young has no doubt he made the right choice.

"I'm proud to know this school stands behind veterans," he says. "A lot of schools could just say they do, but to prove it and to be ranked as No. 1 in Texas—that says a lot."

Young expects to graduate in 2018 with a degree in business management, fulfilling the promise he made to his mother 30 years ago. He wishes she were here to see it.

"She passed away before I could finish," he says. "But I'm really not doing it only for her sake. This is for me, too." **UTA**



George Young during his military days. He served as a U.S. Marine for about 20 years.

DEDICATED SUPPORT

UTA offers many programs and services specially tailored to support veterans

Knowing the traditional New Maverick Orientation that UTA offers to incoming freshmen would likely not answer student veterans' questions, UTA designed a special **Veterans Orientation** tailored to their needs.

UTA's University College, School of Social Work, and College of Business offer **dedicated advisers, counselors, and special programs**.

The **Office for Students with Disabilities** works with veterans who need individualized accommodations or support.

UTA was one of the first universities in the nation to receive a grant from the U.S. Department of Health and Human Services to create a **Veterans Bachelor of Science in Nursing (VBSN) Program**, giving students credit hours for their military medical service.

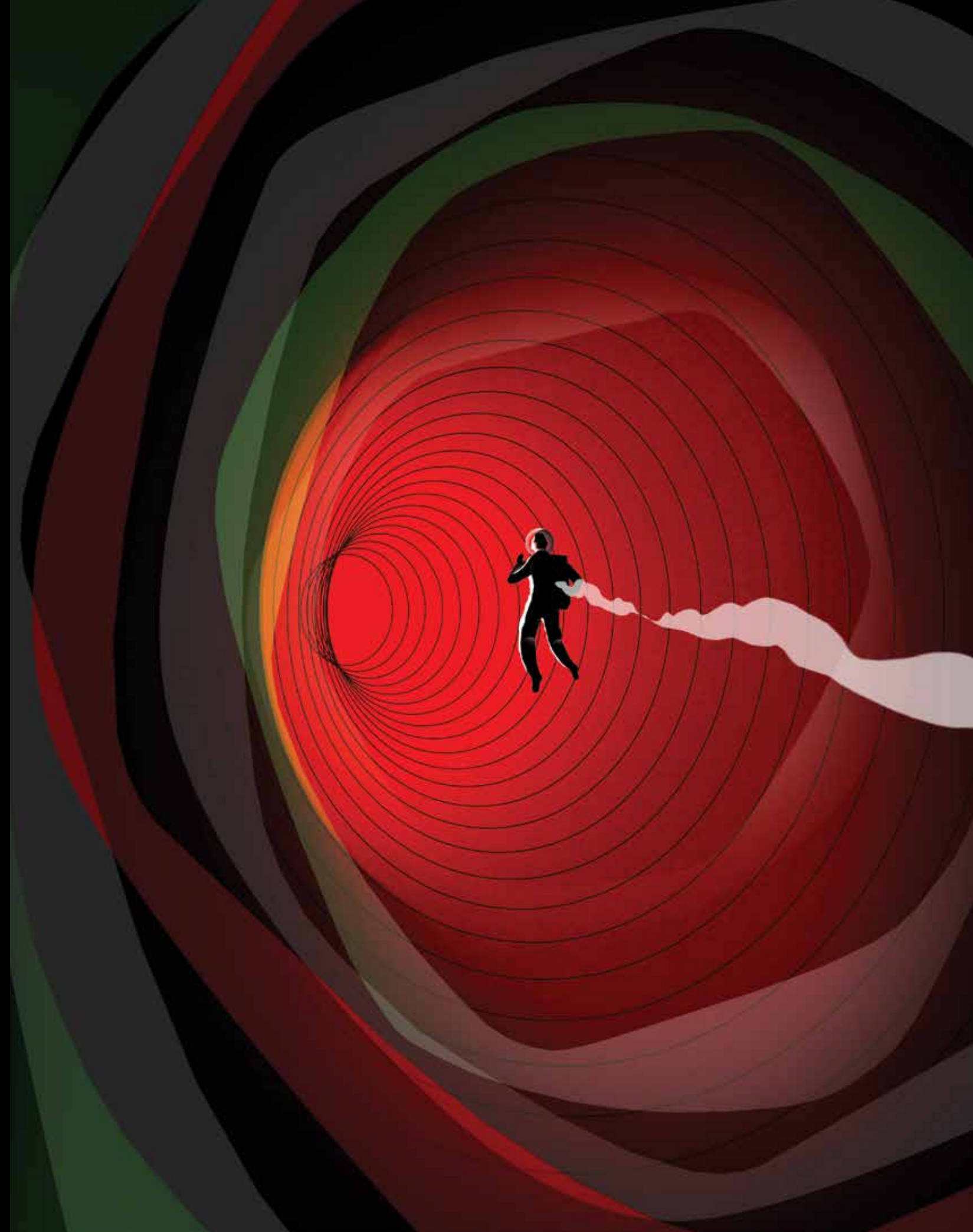
The **SALUTE Veterans National Honor Society** recognizes veterans with superior academic performances.

MavVets is a student-veterans organization dedicated to building camaraderie between veterans and offering community service opportunities.

Beyond the **STARS**

Researchers
at UTA are
expanding the
frontiers of
knowledge—to
infinity and
beyond.

BY JEREMY AGOR
ILLUSTRATION BY
BRIAN STAUFFER





SPACE HAS LONG been the subject of science fiction and the dreams of many who gazed up at the moon and stars. Decades of exploration and discovery have opened dozens of new avenues for the earthbound to contribute to mankind's knowledge of the universe, as well as its ability to venture farther among the stars.

When physicists proved the existence of the Higgs boson, colloquially known as the "God particle," in 2012, researchers from The University of Texas at Arlington's Center of Excellence in High Energy Physics were part of the team. In January 2016, the University hosted 150 leading international physicists to collaborate on the particle physics experiment known as the Deep Underground Neutrino Experiment, which attempts to explain the origins of the universe.

While these researchers explore the origins of life, several other UTA faculty members are deeply involved with interdisciplinary, collaborative projects that are expanding our knowledge of the universe. Their work could allow humans to travel to and inhabit distant planets and increase our understanding of how weather conditions in space affect life here on Earth.

NASA COLLABORATION

One key pathway to discovery is through UTA's membership in NASA's Systems Engineering Research Consortium, which is funded by the Marshall Space Flight Center and Langley Research Center. The consortium

brings together systems engineering researchers from universities across the country, including the George Washington University, Massachusetts Institute of Technology, University of Alabama in Huntsville, and University of Colorado.

Paul Componation, chair of UTA's Industrial, Manufacturing, and Systems Engineering (IMSE) Department, was instrumental in earning a place in the consortium, which is looking at both the complexity of advanced aerospace systems and the organizational structures that design and build these systems. UTA's research team is focusing on how to reduce costs while maintaining the safety and performance of NASA's space launch systems. This includes verification and validation procedures to make sure they meet requirements and finding better ways to use technology to help distributed design teams—those who work together but are located across the country. In terms of project expense, design teams are one of the most costly parts to manage.

"Today's design environment has hundreds, if not thousands, of engineers working together," Dr. Componation says. "They're separated by distance, time, education, language, and even culture. Pulling these teams together is a major design challenge."

Susan Ferreira, an associate professor in the IMSE Department, is working with the consortium to find ways to improve system modeling to demonstrate how launch systems will perform before they're built and to identify possible emergent properties, which are unknown characteristics that can appear as the systems are used. Identifying these properties before a system is applied in real life is crucial to improving safety and protecting life and equipment.

The applications for research done for the NASA consortium are trans-

ferable to other areas, which is an added incentive for being part of the group.

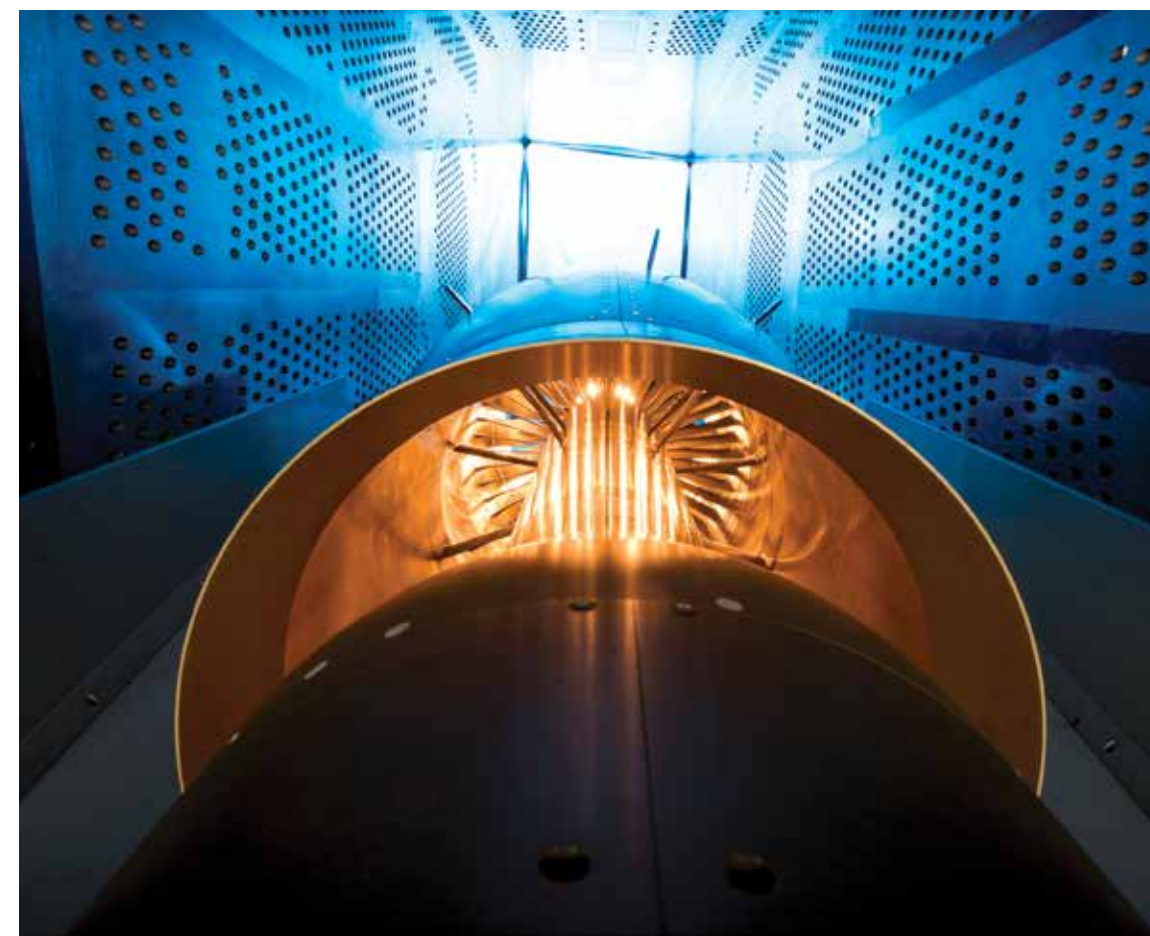
"A lot of the work we're doing for NASA can be applied to other areas where we do a lot of research, such as medical systems and energy systems," says Componation. "It's cutting-edge research, and it's an advantage to be able to work it into other domains."

BREATHING DEEPLY

In another project for NASA, UTA is working with three other institutions to develop improved methods for oxygen recovery and reuse aboard human spacecraft, which will be crucial to taking the next steps toward manned journeys to Mars and other planets.

Brian Dennis, associate professor of mechanical and aerospace engineering in the College of Engineering; Krishnan Rajeshwar, distinguished professor of chemistry and biochemistry in the College of Science; and Norma Tacconi, a since-retired research associate professor in the College of Science, designed and built

"A lot of the work we're doing for NASA can be applied to other areas of research, such as medical systems and energy systems."



UTA researchers are helping to facilitate collaboration between teams that build machines like this one.

a prototype microfluidic electrochemical reactor that recovers oxygen from carbon dioxide in cabin air.

UTA's reactor is built around a nanocomposite electrode. Because it is compact and lightweight, it takes up little space, significantly reduces weight, and draws as little of the limited power aboard the spacecraft as possible. Water collected from bodily fluids and carbon dioxide from normal breathing are used as reactants to produce oxygen and hydrocarbon gases, such as methane. The oxygen will be used for breathing, while the gases can be vented into space. It is important to produce as much oxygen as possible, because the amount that can be produced lessens the need to transport oxygen, freeing up space for other necessities. An oxygen-recovery system currently in use on the International Space Station yields only about 50 percent oxygen, while UTA's prototype could yield 75 percent or more.

The team's initial prototype worked as expected and has been delivered to NASA in Houston for further testing. Three other teams—two from NASA's Glenn Research Center and one from a private company—are competing to move on to the second phase of the project, which will require building a much larger system that can support four crew members by converting 4 kilograms per day of carbon dioxide to breathable oxygen.

"If we're successful, the system we develop could be used on the International Space Station soon, and one day it could support travel all the way to Mars," Dr. Dennis says. "Our system is different from anything currently in use by NASA. We talk to NASA engineers so often that I think our approach has influenced their thinking as far as what is possible for a life-support system. Even if our design doesn't ultimately move forward, I think that we have made an impact."

WEATHER WATCHERS

As Dennis and his team work to make an impact on space exploration, two researchers in UTA's Department of Physics are exploring ways to curb the impact of space weather such as solar flares and solar winds on technology and human activities. Yue Deng, associate professor, and Ramon Lopez, professor, are working to learn about those effects and mitigate their disruptions.

Dr. Deng is the head of a \$7.3 million national initiative to develop a next-generation space weather simulator that can very precisely predict energy distributions during events like solar

"Impactful research being performed by our faculty today will result in expanded boundaries for manned space exploration."

A NASA astronaut with Sabatier, the water creation system of the International Space Station. UTA researchers are working to improve these systems.



THE PAST AND FUTURE OF SPACE EXPLORATION



BRIG. GEN. ROBERT L. STEWART

'72 MS, Aerospace Engineering

Stewart became an astronaut seven years after graduating from UTA. He was the first active duty U.S. Army soldier to make a space flight and earn the Astronaut Badge.



KALPANA CHAWLA

'84 MS, Aerospace Engineering

The first Indian-born woman to fly into space, Chawla died in the 2003 Space Shuttle *Columbia* disaster. It was her second mission.



CODY GROUND

'12 BS, Aerospace Engineering

Now a doctoral student at UTA in mechanical and aerospace engineering, Ground has earned a prestigious Pathways internship through the NASA Langley Research Center.

flares. The project, funded by the U.S. Department of Defense through the Multidisciplinary University Research Initiative Program, involves a UTA-led team of physicists from the University of California, Los Angeles, Johns Hopkins University, the Massachusetts Institute of Technology, the University of Colorado at Boulder, the University of New Mexico, and the University of Texas at Dallas.

The research will compare measurements of electric and magnetic fields from low-flying spacecraft and ground-based remote sensing tools during quiet and storm periods to simulations produced by Deng's Global Ionosphere-Thermosphere Model, which uses advanced computing to model energy redistributions in the upper atmosphere.

Findings produced by the research group are important because they will lead to greater accuracy in predicting the effects of space weather on GPS and communication systems, power grids, and human safety. Currently, estimates of the energy entering the atmosphere during periods of extreme solar activity can vary by as much as 100 percent. This can lead to an error of up to 30 percent in models used to forecast trajectories and track satellites orbiting in a specific region, which affects the stability and accuracy of GPS and communication systems.

If Deng and her team are successful, predictions of the effects of a solar flare could be accurate to within one degree longitude and one degree latitude—about 100 kilometers in each direction.

"Our findings will help ensure the stability of communications systems and our power grid," says Deng. "This will ensure the safety of astronauts and private citizens on commercial airlines who could avoid being exposed to high levels of radiation during space storms."

Dr. Lopez's work focuses on heliophysics—or the science of the sun-Earth connection through the space environment—including space physics, astrophysics, and climate studies, and the role of solar wind fluctuations in geospace coupling. His research is sponsored by NASA's Heliophysics Supporting Research program.

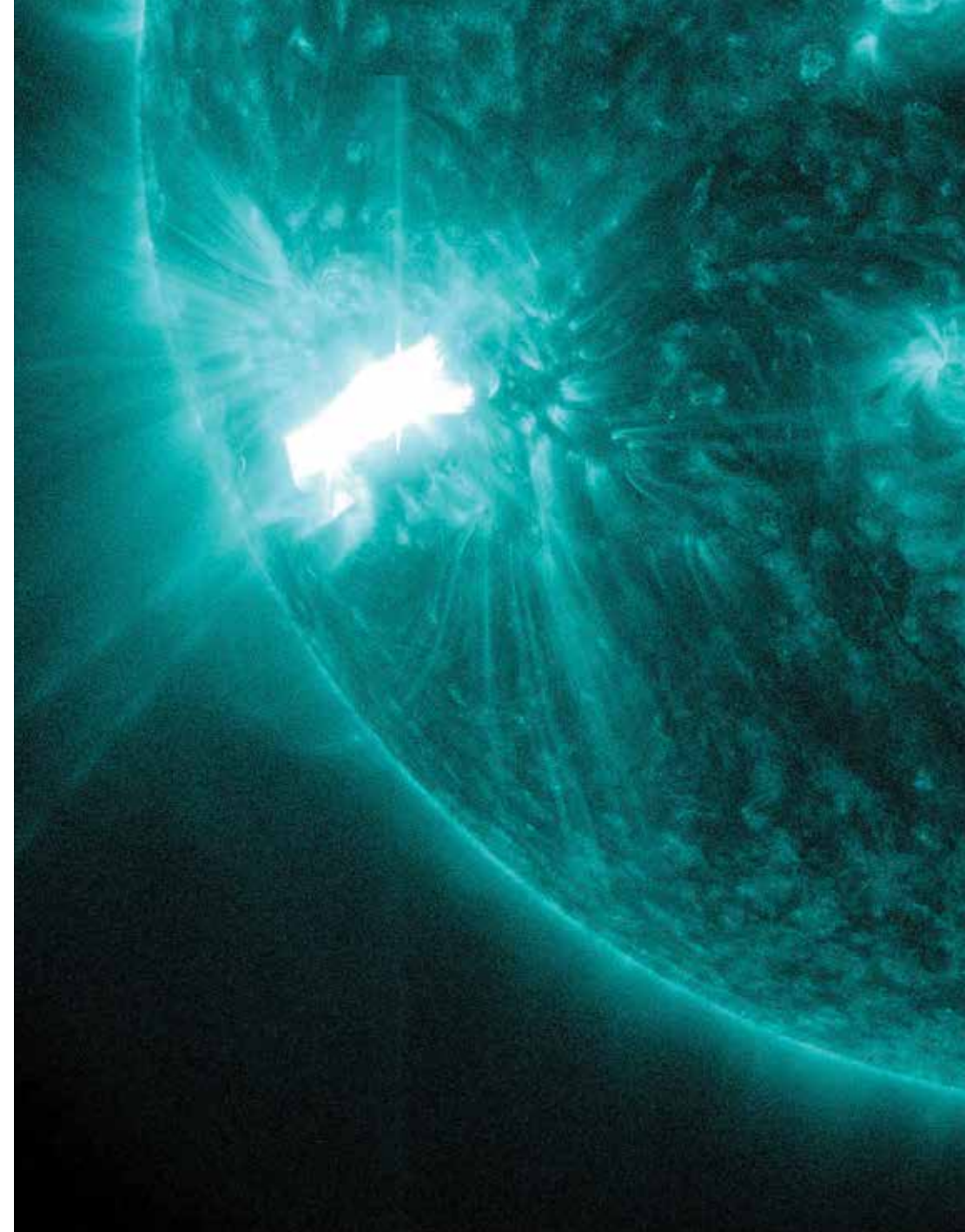
Lopez is studying the processes that transfer solar wind energy and momentum to Earth's magnetosphere and ionosphere. The magnetosphere is the region of space surrounding Earth where the dominant magnetic field is Earth's, rather than that of interplanetary space. The ionosphere is part of Earth's upper atmosphere where atoms and molecules are atomized, creating a

layer of electrons that reflects and modifies radio waves used for communication and navigation.

Solar wind transfers energy as it flows past Earth, and the transfer creates disturbances that can affect orbiting satellites. Lopez runs computational studies on different kinds of solar wind fluctuations to see what happens. One of his findings was that the larger the fluctuation of the magnetic field, the more energy transferred—but the transfer was less efficient.

"Impactful research being performed by our faculty today will result in expanded boundaries for manned space exploration, as well as a greater understanding of how cosmic energy affects our global ability to communicate," says Duane Dimos, the University's vice president for research. "UTA is making a very real impact in terms of discovery." **UTA**

Solar flares can wreak havoc on communication systems on Earth.



COMMUNITY



Carlos Donjuan transforms communities and minds through his creative expression of individual journeys.

BY AMBER SCOTT
PHOTOS BY JONATHAN ZIZZO



H **QUICK SHAKE** of the paint can and its distinctive rattle. The hiss of paint leaving the nozzle and the pungent odor that fills the air. These are the sounds and smell of art in the making. What comes next is the color: brilliant hues that form dramatic shapes and textures, transforming a blank wall into an inspiring neighborhood centerpiece.

That's always the goal for Carlos Donjuan, an alumnus and now a senior lecturer at The University of Texas at Arlington, who developed an interest in graffiti art in middle school.

"As a kid I was already really into drawing cartoons, video game characters, and imagery from lowrider culture," he says. "In middle school, I became enamored with graffiti art and the idea of abstracting letters and using vibrant colors. I dedicated my teen years to learning everything I could about it."

Back then, Donjuan, his two younger brothers, and two of their best friends started a graffiti crew they called Sour Grapes. The crew was envisioned as a solid group of artists that would go out into the community, paint graffiti, and look out for one another. They'd ask permission to paint walls for local businesses, particularly those that had already been tagged by local gangs.

"I like to think my work has a positive impact on the community because mural work shows an appreciation for the neighborhood," Donjuan says. "Communities usually feel appreciated when someone takes the time to add a little color to their surroundings."

Sour Grapes is still going strong today—17 years later—and though the core mission is the same, things have changed a bit. Today, the group still paints murals, but they are also creative directors, graphic designers, illustrators, educators, community advocates, and more. They focus on community work, but they also enjoy working with corporate clients.

Donjuan's art, too, has evolved over the years—though strong shapes and vivid colors remain a consistent element. He credits UTA for helping him discover a true passion for art.

"It was great to be at a university where the faculty really cared about my ideas and worked to help me develop my art," he says. "My professors helped me realize that there was a purpose to what I was doing and how it was important to my community and me."

He now focuses his time in the studio. His "Illegal Aliens" series has been exhibited at major museums and galleries all over the world. The paintings feature masked individuals, often surrounded by surreal characters or unusual landscapes.

"As a child, I remembered hearing the term 'illegal alien,' and I always wondered what these aliens looked like," he says. "I soon figured out that 'illegal alien' was a term used to label people like me. I was heartbroken."

Several years ago, as he started to explore some of his childhood experiences through his art, that memory came to the surface. Inspiration struck.

"I created masks and costumes for my figures that were inspired by cultures from all over the world," he says. "The masks represent the many personalities that we must take on to blend in to a place where we feel like we don't belong. My goal is to empower people who feel like outsiders and show the beauty of their uniqueness." **UTA**



"My professors helped me realize that there was a purpose to what I was doing and how it was important to my community and me."



Masked Identities
For this photo series, *On My Own*, Donjuan created 3-D masks out of paper, paint, and fabric materials.



Local Impact



Through Dallas Mayor Mike Rawlings' Rising Star Council, Sour Grapes worked with students at four Dallas high schools on how to create social change through art. After discussions about the history and community impact of mural and

graffiti art, students created mural concepts for their schools, and Sour Grapes helped bring those concepts to life. "It was exciting to see all of the ideas and energy that these students brought to their community," Donjuan says.

Hidden Faces
 Top two: *Untitled* (left) and *Big Red*, both oil and wood panel. Bottom: *Untitled*, water and acrylics on Arches paper. Opposite: *Benz*, mixed media.



Find Carlos Donjuan's art in the wild. Spot his graffiti in Oak Cliff, where he has created three of his largest murals thanks to a grant through the Dallas Office of Cultural Affairs. A new body of work will debut at a show in November 2017 at Kirk Hopper Fine Art in Dallas.





Wild and Bright
 This page:
Doll Face,
 watercolor on
 Arches paper.
 Opposite,
 top: *Untitled*,
 watercolor on
 Arches paper.
 Bottom: *Cricket
 Jr.*, mixed
 media on
 Arches paper.



Inside Look: Behind the Artist

Donjuan shares some of the inspirations that shape his art today

"My work now is an exploration of my **Mexican-American history** and how it's become a hybrid mindset and lifestyle. I'm working on trying to understand my history and culture and how it's made me the person that I am today.

Graffiti art taught me how to work large scale and introduced me to the elements of art without being aware of that as a teen. When I first started making paintings, I found that I had an easy time understanding the use of color, form, line, shape, space, texture, and value. Graffiti also instilled in me a sense of street smarts and energy—these things have become interwo-

ven with my academic background. This is something that I think has set me apart from many of my peers.

Cartoon imagery constantly appears in my work in many ways or forms. I'm inspired by the playfulness that I find in cartoon imagery now more than ever. This is because of my **6-year-old son Ari** and how he has changed my life. Seeing his interests are just as important to me, and it's hard not to include them in my work. I like to know what he thinks about my work, so I keep it colorful and playful. We talk about cartoons, toys, and video games daily, and that to me is one of my greatest inspirations."



DIG SITE

Construction on the Science and Engineering Innovation and Research (SEIR) building is well underway. This teaching and research space will advance health science discoveries and enable dramatic growth in engineering and science programs. The University is on track to unveil the new building in summer 2018.

FILL US IN

You never call. You don't write. We miss you! Email us at utamagazine@uta.edu and let us know what's keeping you so busy.

CLASS NOTES

All the latest professional updates from our talented alumni all over the world.

1969

Gary Trietsch (BS; '74 MS, Civil Engineering), a College of Engineering Advisory Board member, accepted top honors for the Harris County Toll Road Authority in the technology category at the International Bridge, Tunnel and Turnpike Association's 84th annual meeting and exhibition in Denver. Trietsch, who also is a UTA Engineering Distinguished Alumnus, received the award for the authority's rapid alert system technology.

1972

Joan Holt (MS, Biology) was named the Harvey Weil Professional Conservationist of the Year by the Rotary Club of Corpus Christi. She is a professor emerita at UT Austin's Marine Science Institute.

"UTA was critical in providing me with the skills I need to excel in this industry, and I am grateful for the many doors that were opened upon graduation."

—TROY SEELING
('10 BA, BROADCAST MANAGEMENT)

1974

Elaine Hart (BBA, Accounting) has been named Austin's interim city manager. She has been chief financial officer for five years. Hart served for more than 10 years as senior vice president of finance and corporate services for Austin Energy.

1978

Kelcy Warren (BS, Civil Engineering) was featured in a Bloomberg article focusing on his capacity to make good business moves even during the oil bust. He is CEO of Energy Transfer Partners.

1980

Tina Mims (BBA, Marketing) was appointed to the Small Business Assistance Advisory Task Force by Texas Gov. Greg Abbott. Mims is executive director of the

Texas Woman's University Hub for Women in Business.

1981

Roger Krone (MS, Aerospace Engineering) has been named to the BorgWarner board of directors. He is CEO of Leidos.

1982

Michael Guyton (BS, Electrical Engineering) was appointed to the Small Business Assistance Advisory Task Force by Texas Gov. Greg Abbott. He is a senior vice president at Oncor.

John Pinkerton (MPA, Public Accounting) was named chairman of the board by Lonestar Resources US. He previously served as director of the company.

1983

G. Don Taylor (BS; '85 MS, Industrial Engineering) is the first vice provost for learning systems innovation and effectiveness at Virginia Tech. A member of the Virginia Tech faculty since 2004, he will assume the post in August after serving as interim dean of the College of Engineering.

1985

Susan Bonesteel Harriman (BBA, Business Administration) is the executive director of a new non-profit, Forward Arkansas, with a mission to improve public education.

1986

Phil Blue (BA, Physical Education) has been named to the Greenville High School Athletic Hall of Fame. Blue played quarterback on the UTA football team.

Kevin G. Sneed (BS, Architecture) has been named fellow of the American Institute of Architects. Sneed is partner and senior director of architecture with OTJ Architects in Washington, D.C.

1987

Charles Shewmake (BBA, Real Estate) has joined Thompson & Knight LLP as a partner in the trial practice group. He served for more than eight years as vice president and general counsel for BNSF Railway Corp.

1989

Angela Lawrence (MBA, Public/Nonprofit Management) has been named the town manager in Chase City, Virginia.

1990

Michael Ahart (BA, Interdisciplinary Studies; '96 MPA, Accounting) was honored as the 2016 Fleet Executive of the Year at the Automotive Fleet & Leasing Association's annual conference in September.

Mindy Gowdy Carmichael

(BS, Civil Engineering) is the first woman to head the Arlington Public Works Department.

Kevin Craddock

(BA, Journalism) has joined Clearfield Inc. as a national account manager for AT&T.

Scott Johnson (BBA, Accounting) has been appointed chief financial officer of United Real Estate Group

1991

John "Skip" Ogle (BS, Architecture; '97 MS, City and Regional Planning) of Tyler was appointed to the Angelina and Neches River Authority board of directors by Texas Gov. Greg Abbott.

1992

Deanna Johnston (BBA, Finance) has been appointed chief information officer of Shiseido Americas Corporation, a subsidiary of Tokyo-based global cosmetics company Shiseido Company Ltd.

Krysla Karlix (MSSW, Social Work) is the new chief operating officer of Medical City Green Oaks Hospital in Dallas.

Martin Schlossman

(MBA, Business) was promoted to first vice president of FHLBank in Topeka, Kansas.

1994

Tim Zimmer (BBA, Marketing and Finance) was named chief marketing officer of Smithfield Foods.

1995

J. Brant Buchinger

(BS, Biology) has joined Tyler-based CHRISTUS Trinity Mother Frances as an obstetrician/gynecologist.

Holly Carter

(MS, Social Work) is director of Harlaxton College Programs in England.

Steven Eubanks

(BA, Civil Engineering) was given the Richard Van Trump Award by the Texas Society of Professional Engineers.

1996

Fred Perpall

(BS; '98 MA, Architecture) has been appointed to the board of Triumph Bancorp, Inc. He is the chief executive officer for the Beck Group, a Dallas-based architecture and construction company.

1997

Brian Brumley

(MSSW, Social Work) was appointed to the State Board of Social Worker Examiners by Texas Gov. Greg Abbott.

Sajeeb Wazed Joy

(BS, Computer Science and Engineering), one of the country's foremost technology advocates, was profiled on a new website by Bangladesh's ruling Awami League.

"These opportunities are a direct result of the incredible learning experiences I had at UTA. My professors and clinical coaches inspired me and gave me the tools I needed to take the next step in my career. I am forever grateful for the degrees I have from UTA. Go Mavs!"

—MEGAN CARTER ('07 BSN; '16 MSN, NURSING)

Ana Nennig

(BA, Communication) was promoted to marketing manager at Qlik, a leading visual analytics platform.

C. Ivan Spencer

(PhD, Humanities), a professor of history and philosophy at The College at Southeastern in Wake Forest, N.C., has published *Tweetable Nietzsche: His Essential Ideas Revealed and Explained*.

Allison J.H. Thompson

(MA, Urban Affairs), director of economic development and tourism for the city of Cedar Hill, spoke in a webinar organized by the International Economic Development Council.

1998

Ellie Adkins-Webb

(BA, English and Education) is the K-12 Response to Intervention coordinator for the Mansfield Independent School District.

Wayne Huddleston

(BBA, Business) was promoted to senior area manager for the U.S. Virgin Islands at the U.S. Small Business Administration.

Melody Martinez

(BBA, Management and Economics) has been named vice president of oil and gas management for Farmers National Company.

Keith Storey

(BS, Economics) was promoted to the role of director of operations at Emerson Automation Solutions.

2000

Jerry Francis

(BA, Exercise Science) is vice president, multi-employer sales at Premise Health. Previously he worked as director of sales for Concentra.

Suneel Jain

(BBA, Finance) is the director of quality and operation control at Fidelity Charitable. He plans to return to UTA for his MBA.

2001

Kyle Berger

(BS, Information Systems) is chief technology officer for the Grapevine-Colleyville Independent School District.

Lauren Childs

(BA, Art History) is co-founder of Fort Worth Arts, a new downtown Fort Worth gallery.

Yasir Mabud

(BS, Electrical Engineering) is the general manager of Summit Communications.

2002

Maria Mejia

(BBA, International Business) was profiled by *Hispanic Executive*. She is chief financial officer for Ulterra, a drill bit manufacturer.

Christian Romieh

(MBA, Business) has joined AXIS Accident and Health as vice president and business development manager for its Mid-

dle East and North Africa reinsurance business.

Diane Waller

(MA, Healthcare Administration), a rehabilitation planning specialist within the National Physical Medicine and Rehabilitation Program Office, wrote a column highlighting National Kinesiotherapy Week for the U.S. Department of Veterans Affairs' website.

2003

Greg Beane

(MBA, Business) is a partner at Verner Brumley, a family law firm in Dallas. He was elected to be a fellow of the Texas Bar Foundation in March.

Stacy Schriever

(BA, Communication) is a residential mortgage loan originator at Premier Nationwide Lending. She was recognized by the Texas State Affordable Housing Corporation as the No. 2 loan officer in the state.

2004

Matthew Caldwell

(MA, Health Care Administration) was appointed CEO of Community Mercy Health Partners based in Springfield, Ohio.

Michael "Ike" Ikner

(MA, Criminal Justice) has been promoted to assistant vice president and chief of police at the Federal Reserve Bank of Dallas.

Willy Vargas

(BBA, International Business) has been promoted to director for sales in Latin America and the Caribbean for FlightSafety International.

2005

Jake LaCombe

(BS, Electrical Engineering) was named partner at Munck Wilson Mandala. He received his law degree from Texas Wesleyan.

Charles Nobles

(BA, Political Science) has been named the head women's soccer coach at McMurry University.

Eric Terrazas

(BA, Kinesiology and Exercise Science) is an account executive at Lantana Communications.

2006

Hal Brock

(BA, Communication) is vice president of business development at Southern Plains Medical Center.

Justin Rickey

(BA, Anthropology; '13 BA, History, MEd, Education) is a Teaching English as a Foreign Language instructor for the Peace Corps.

2007

Jesse Morgan Barnett

(BFA; '11 MFA, Art), co-founder of Dallas Biennial art gallery, opened a new show at the Box Company featuring the work of Austrian artist Hermann

Nitsch and Mexican artist Teresa Margolles.

Megan Carter

(BSN; '16 MSN, Nursing) is the director of critical care and respiratory therapy at Baptist Health Louisville. She is also co-president of the River City Chapter of the Kentucky Nurses Association.

Marilyn Macik-Frey

(PhD, Business Administration) has been chosen as dean of the College of Business Administration at Nicholls State University. Macik-Frey taught at UTA's Goolsby Leadership Academy.

Carrie West

(MPA, Public Administration) is police chief of Willow Park, Texas.

2008

Dominic Bracco II

(BA, Journalism and Spanish Literature) was the guest speaker at the Pulitzer Center on Crisis Reporting in Washington, D.C.

Boback Firoozbakht

(BS, Architecture) founded BDDM, a real estate development company. In 2016, he received a Builder's Choice and Custom Home Design Award.

Marlana Mossman

(BA, Interdisciplinary Studies) has been promoted to assistant vice president of Community National Bank and Trust of Texas.

2009

Aaron Gouge (BA, Kinesiology), a former Movin' Mavs wheelchair basketball player, was a member of the USA wheelchair basketball team that earned a gold medal at the Rio de Janeiro Paralympics.

Stephanie Hays (BBA, Finance) was profiled by *Southlake Style* magazine, highlighting her passion for financial planning.

Michael Tracy (BFA, Art), faculty coordinator for the East Carolina University GlasStation in Farmville, N.C., discussed the history of glass at a new exhibit titled *Louis C. Tiffany: Art and Innovation*.

2010

Courtney Burkhart (BS, Computer Science; '15 MBA, Business) is the global IT business relationship manager at Ericsson.

Vishal Sanghai (MS, Electrical Engineering) is an engineer working for San Diego-based Peregrine Semiconductor.

Troy Seeling (BA, Broadcast Management) is a website sales and support specialist at Virtuoso.

2011

Brandon Hurtado (BA, Public Relations) started a digital media company, ANKR Agency.

Brian Itotia (BBA, Marketing) is the founder of Blacktip Swim School. The school recently expanded to two locations, one in Carrollton and the other in Garland.

Allegra Jacoby (BA, English) is a contracts negotiator at Lockheed Martin. She received her JD in business law, intellectual property, and tax from Creighton University.

Michael Mazurek (MFA, Art), co-founder of Dallas Biennial art gallery, opened a new show at the Box Company featuring the work of Austrian artist Hermann Nitsch and Mexican artist Teresa Margolles.

Brendon Wheeler (BS, Civil Engineering) won the Mid-Cities Chapter Young Engineer of the Year Award at the Texas Society of Professional Engineers Week Banquet.

2012

Joanna Alvarado (MS, Health Care Administration) is a strategic consultant in sales for Viverae.

Tony Ramirez (MBA, Business) was named vice president of economic development for the Borderplex Alliance, a regional economic

"I now have the ability to impact my hospital and community in even more ways as a nurse leader. It never would have been possible without continuing my education through UTA."

— KRYSTLE GANDHI ('15 BSN)

development organization based in El Paso.

Rebecca Sinclair (EMBA, Business) has been hired as the chief people officer for American Tire Distributors Inc.

2013

Elizabeth Bigler (BS, Architecture) was awarded the Construction Industry Association's 2016 Magnolia Award.

Shelly Conlon (BA, Journalism) is an education reporter at the *Waco Tribune-Herald*.

Nikhil Grover (BBA, Finance) is product manager/owner for digital experience at AT&T.

Todd Maria (MSN, Nursing Administration), grand marshal of the 2016 Alan Ross Texas Freedom Parade, uses rugby as a vehicle for serving the LGBT community, the *Dallas Voice* reported.

Ines McNiel (BS, Biology) is a digital marketing manager and strategist at TSL Marketing.

Brandi Reinhardt (BA, Psychology) is a therapist at Solutions of North Texas.

2015

Amaraja Dalvi (MS, Industrial Engineering) was contracted through IET Inc. as an industrial engineer for General Motors in 2016.

Chani Farhaven (MA, Communication) was promoted to director of marketing communications and client relations at ASG Partners.

Porter Fuqua (MA, Architecture) has relaunched historic Dallas-based Casci Ornamental Plaster. He is an associate architect with J. Wilson Fuqua & Associates.

Krystle Gandhi (BSN, Nursing) was promoted to nursing director of clinical informatics and operations at JPS Health Network.

Cynthia Heisch (BBA, Marketing) is a senior campaign manager and intern program coordinator at Dex Media.

Kush Shah (MS, Materials Science) is a global material compliance engineer at Karma Automotive.

Michelle Turek (MEd, Leadership and Policy Study) has been selected as the new principal of Herod Elementary School in the Houston Independent School District.

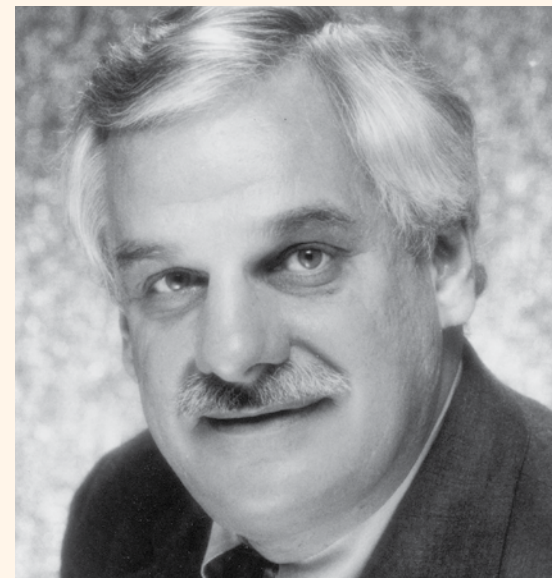
2016

Randy Cisneros (BS, Accounting) is a tax associate at JTaylor.

Wendle Medford (MPA, Public Administration) has been appointed assistant city manager of the city of Forney, Texas.

Tristin Neal (BA, Political Science) is a legal assistant at Padfield & Stout LLP.

IN MEMORIAM



Ryan Custer Amacher
71, Nov. 25, Lake Shore, Minnesota

President of The University of Texas at Arlington from 1992-95, Dr. Amacher stayed on to teach as professor of economics and public affairs until his retirement in 2012. Previously he worked for several universities, including the University of Oklahoma, Arizona State University, and Clemson University. In addition to his academic career, Amacher held a variety of positions in Washington, D.C., working for the Pentagon and as a consultant at the Federal Trade Commission, among others. He co-authored or edited nine books on economics and served on the board of directors at Business Week.

Tony Baker
82, Oct. 17, McKinney. He taught history and economics from 1979-98.

Randy Bohannon
72, Jan. 5, Euless. Dr. Bohannon was a research engineer at UTA's ARRI (now UTARI) and TMAC from 1996-2008.

Thomas "Tom" Cogdell
82, Oct. 27, Arlington. He served as an assistant professor in the Chemistry Department from 1966-99.

Richard L. Cole
70, Jan. 8, Arlington. As a professor of public affairs from 1980-2016, Dr. Cole served as dean of the School of Urban and Public Affairs (1980-2008), interim dean for the School of Social Work (1996-98), and dean of the College of Liberal Arts (2001-03).

Vincent Dannis
(BA, English), 69, Sept. 15, Hurst. He was an adjunct lecturer in the English Department from 2007-12.

Timothy Edward Denny
(BBA, Management), 48, Oct. 23, Mansfield. Denny taught first-year seminars and conducted workshops for student veterans while an adviser for University Studies from 2010-12.

Joe Gilbreath
93, Feb. 3, Windom. The U.S. Navy veteran taught mathematics from 1960-88 and served as an assistant director in student affairs.

Samuel Barksdale Hamlett
95, Aug. 16, Austin. An associate professor from 1956-92, Dr. Hamlett served as the first chairman of the Department of Government, now Political Science, for 10 years. He retired from full-time teaching in 1984, but continued to teach and advise students for another 10 years. In 1987 he was designated as a professor emeritus of political science.

Marie Louise Kauth
86, Jan. 7, Arlington. A member of the Friends of the UTA Library, she created the Marie Kauth Endowment Fund to enhance the library's collection of journals and monographs.

Quetha Jo "Bell" Lacy
77, Nov. 20, Arlington. An adjunct instructor from 1981-2001, she taught the first children's literature classes in the Department of English.

Darlene Langas
80, Sept. 9, Arlington. She was an accountant in the E.H. Hereford University Center from 1981-2003.

Dolly Lynn McLemore
56, Jan. 24, Fort Worth. She was a senior auditor and compliance specialist in internal audits in the business office from 2001-03.

Gary C. McMahan
56, Aug. 30, Dallas. Dr. McMahan was an associate professor of management in the College of Business from 1996-2015. He served as the management doctoral program coordinator and as the chair or a member of numerous dissertation committees.

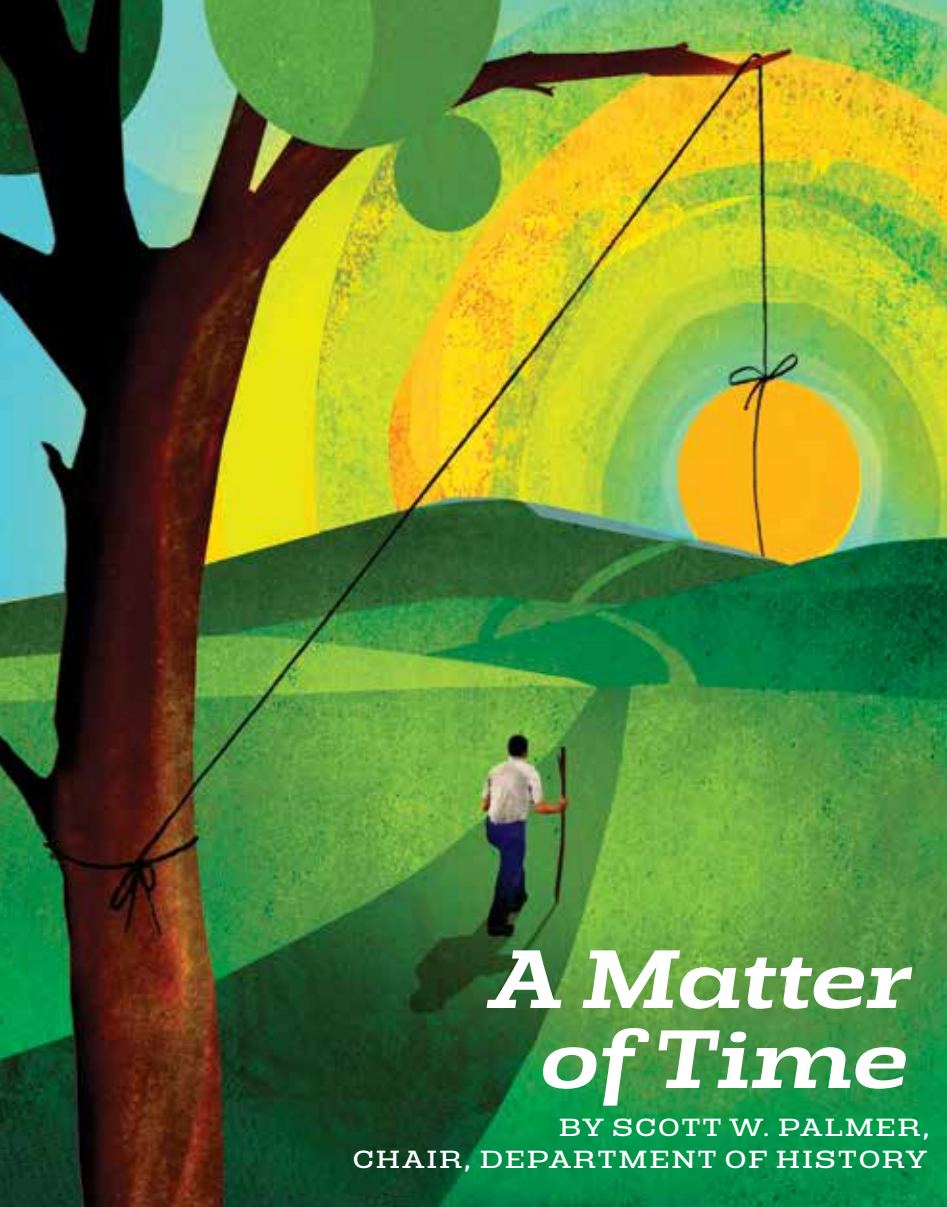
Robert Ray Minter
93, Dec. 8, River Oaks. A U.S. Army veteran, Minter worked as the senior construction inspector and engineer from 1972-92 for UTA and the UT System.

Shirlyn Sloan
61, Aug. 23, Grand Prairie. She worked as an administrative assistant in Education Tech Support Services from 1983-2014.

Luke Joseph Sparvero
77, Dec. 18, Arlington. He was a senior lecturer of finance and real estate in the College of Business from 1980-2008.

Frederick Viña
84, Oct. 27, Arlington. An associate professor of Spanish from 1963-2002, Dr. Viña was named a professor emeritus of modern languages and the 2000-01 Outstanding Academic Adviser as an undergraduate faculty adviser.

Velma Porter Wilson
101, Aug. 29, Fort Worth. A cashier, she worked in admissions and the business office from 1966-80.



A Matter of Time

BY SCOTT W. PALMER,
CHAIR, DEPARTMENT OF HISTORY

Watch Dr. Palmer explain daylight saving time in depth at uta.edu/mag

DAYLIGHT SAVING TIME IS something you encounter twice a year, but may not know much about. It is an effort to alter human activities to preindustrial patterns of living in which the sun exerted far more control over our daily behavior.

The modern concept of daylight saving time owes its origins to George Hudson, a New Zealand entomologist. In 1895, he proposed the idea of setting clocks forward in the spring so that he could maximize the amount of sunlight hours available to collect bugs. Ten years later, the idea would be picked up independently by a British citizen named William Willett, who proposed the idea of daylight saving time in Britain so he could engage in the activity that he most enjoyed: playing golf. Willett's daylight saving time plan never passed Parliament. The idea might have ended there had it not been for World War I.

During the war, the German government enacted daylight saving time in an attempt to conserve coal and electricity for the war effort. Germany's ally, Austria-Hungary, adopted daylight saving in April 1916, forming the first nationwide practice of daylight saving time. Britain followed a month later; the United States

The Explainer

adopted the practice in 1918. After the war was over, however, all of these countries reverted back to their normal system of keeping time.

One of the most common misconceptions about daylight saving time is that American farmers advocated for it. In fact, the practice tended not to be popular with them. They argued against it during World War I and actively lobbied to see it repealed when the war ended in 1918. Longer summer months made it more difficult for farmers to undertake their work. Hired hands typically went home at 5 o'clock in any event, thus wasting daylight hours. Moreover, the cows had to be milked at set times that were regulated by their biological clocks rather than artificial time.

With the onset of World War II, daylight saving time was reintroduced in Europe and the United States. Three months after the end of the war, it was discontinued in America on a national level. Instead, state, regional, and local governments were allowed to regulate the start and end dates for their local daylight saving time. During the 1950s and 1960s this would lead to what one national magazine called "the chaos of time." By 1965, in the state of Iowa alone there were 23 different start and end times for daylight saving. That same year, start and end dates in the Twin Cities of Minneapolis and St. Paul were off by two weeks.

As the result of all this confusion, the U.S. Congress passed the Uniform Time Act in 1966, establishing daylight saving time regulations as we know them today. The act established uniform start and end times for daylight saving across the United States while allowing individual states to opt out of the system altogether. Indiana opted out until 2006. Today, Arizona is the only state not to participate.

So what's the point of daylight saving time? Some studies have shown that instituting daylight saving time reduces energy costs in summer months; with people spending more time outdoors, they use less electricity at home. Other studies have shown that falling back in the colder months leads to an increase in energy consumption. Either way, it's probably a wash. The most important thing to remember is that whether you choose to use your extra time collecting bugs, playing golf, or waging war, don't forget to set your clocks accordingly. [uta](http://uta.edu)



Look Back

Before UTA was the university you know and love today, it underwent many iterations, changing names all the while. Its very first iteration was Arlington College. Established in 1895, the college educated students from elementary to high school. Pictured here is Arlington's first graduating class. Just a few years after this photo was taken, the campus was converted to Carlisle Military Academy, a military training school for boys.

Look Ahead

Your alma mater just can't get enough of you. Take a look at the upcoming events below and see where UTA and your life can intersect.

JUNE 16-17

Santa Fe International Folk Art Market at Arlington
folkartalliance.org/arlington

SEPTEMBER 7

Maverick Speakers Series
presents: Lou Diamond Phillips

SEPTEMBER 13

UTA Day at the Rangers

OCTOBER 2

UTA Night at the Levitt

OCTOBER 3

Maverick Speakers Series
presents: Anousheh Ansari

NOVEMBER 2

Maverick Speakers Series
presents: Roland Fryer

DON'T MISS

Homecoming and the Distinguished Alumni Awards this fall!

