

TEXAS TECH UNIVERSITY CENTENNIAL

COMMENCEMENT

Fall 2023 | Dec 15-16 Lubbock, Texas





TEXAS TECH UNIVERSITY[®]

FALL 2023



Friday, December 15, 2023

2:00 p.m., 7:00 p.m.

Saturday, December 16, 2023

9:00 a.m., 1:30 p.m.

UNITED SUPERMARKETS ARENA LUBBOCK, TEXAS

Administration 3 About Texas Tech University 4 Undergraduate and Graduate Commencement Ceremonies 8 Letter from the President 12 Student Speakers 13 Acknowledgements 15 **Convocations** Committee **Program Production College** Readers Administrative Representatives Student Banner Bearers for Ceremonies Faculty Banner Bearers for Ceremonies Presidential Mace 16 Candidates for Teacher Certification 17 Graduation Honors 17 List of Graduate Degree Candidates 18 List of Undergraduate Degree Candidates 29 Receptions 42 **Texas Tech Traditions** 43 College Banners 44 Academic Dress and Procession 46 Seating Charts 48

MISSION

As a public research university, Texas Tech advances knowledge through innovative and creative teaching, research, and scholarship. The university is dedicated to student success by preparing learners to be ethical leaders for a diverse and globally competitive workforce. The university is committed to enhancing the cultural and economic development of the state, nation, and world.

LAWRENCE E. SCHOVANEC, Ph.D. President:

Professor of Mathematics and Statistics

RONALD L. HENDRICK, Ph.D. Provost and Senior Vice President; Professor of Natural Resources Management

NOEL SLOAN, J.D., CPA Senior Vice President for Administration & Finance; Chief Financial Officer JOSEPH HEPPERT, Ph.D. Vice President for Research & Innovation; Professor of Chemistry

JORGE IBER, Ph.D.

Interim Vice President for Campus Access and Engagement

TEXAS TECH UNIVERSITY SYSTEM CHANCELLOR / BOARD OF REGENTS

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MS. STEELEY SMITH Mason, Texas

ACADEMIC OFFICERS

MARK SHERIDAN, Ph.D. Vice Provost for Graduate and Postdoctoral Affairs; Dean, Graduate School; Professor of Biology

JACK NOWLIN, Ph.D., J.D. Dean, School of Law; Professor of Law

GUY LONERAGAN, Ph.D. Dean, School of Veterinary Medicine; Professor of Food Safety and Public Health

EARNSTEIN DUKES, M.L.S. Dean of Libraries; Librarian

CLINT KREHBIEL, Ph.D. Dean, Davis College of Agricultural Sciences & Natural Resources; Professor of Animal Science URS PETER FLUECKIGER, M.Arch. Dean, Huckabee College of Architecture; Professor of Architecture

TOSHA DUPRAS, Ph.D. Dean, College of Arts & Sciences; Professor of Anthropology

MARGARET L. WILLIAMS, Ph.D. Dean, Jerry S. Rawls College of Business Administration; Professor of Management

JESSE PEREZ MENDEZ, Ph.D. Dean, College of Education; Professor of Education

ROLAND FALLER, Ph.D. Dean, Edward E. Whitacre, Jr. College of Engineering; Professor of Chemical Engineering JILL HERNANDEZ, Ph.D. Dean, Honors College; Professor of Philosophy and Humanities

TIM DODD, Ph.D. Dean, College of Human Sciences; Professor of Hospitality Management

ROB STEWART, Ed.D. Interim Dean, College of Media & Communication; Professor of Communication Studies

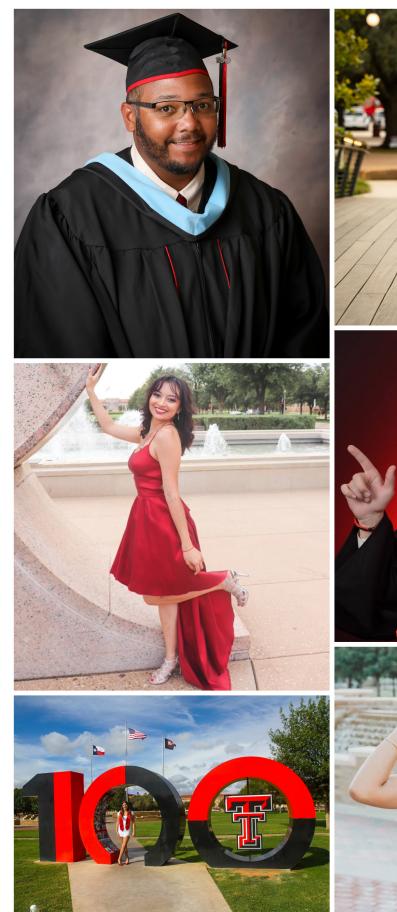
MARTIN CAMACHO, D.M.A. Dean, J.T. & Margaret Talkington College of Visual & Performing Arts; Professor of Music

PATRICK C. HUGHES, Ph.D. Dean, University Studies; Professor of Communication Studies

ROM ITS VERY BEGINNING the Texas Tech University community has had a sense of destiny and an awareness of the impact it could and would have on Texas and the wider world. Originally named Texas Technological College, Texas Tech opened in 1925 with six buildings, four schools (Agriculture, Engineering, Home Economics, and Liberal Arts), and an enrollment of 914. Texas Tech grew rapidly after World War II, and in 1969 the Texas legislature approved a name change to Texas Tech University. In the years since, Texas Tech has grown to become the largest comprehensive higher education institution in the western two-thirds of the state. The university is the major institution of higher education in a region larger than 46 of the nation's 50 states.

Today, Texas Tech continues to thrive, with more than 40,000 students enrolled in its 11 colleges: Davis College of Agricultural Sciences & Natural Resources, Huckabee College of Architecture, Arts & Sciences, Jerry S. Rawls College of Business Administration, Education, Edward E. Whitacre, Jr. College of Engineering, Honors College, Human Sciences, Media & Communication, J.T. & Margaret Talkington College of Visual & Performing Arts, the Graduate School, and University Studies.

Because of its educational scope and purpose, as well as the size of the region it serves, Texas Tech University operates in numerous Texas locations beyond the Lubbock campus. In all, the Texas Tech University System includes Texas Tech University, Angelo State University, Midwestern State University, Texas Tech University Health Sciences Center, and Texas Tech University Health Sciences Center at El Paso.







































INCE TEXAS TECH'S FIRST graduation ceremony in the spring of 1927, more than 200,000 undergraduate and graduate degrees have been awarded by the university. From these proud graduates have emerged captains of industry, world-renowned surgeons, noted authors, famous singers, acclaimed teachers and professors, attorneys, entrepreneurs, agronomists, scientists, professional athletes, and countless others who have claimed positions of service and responsibility in a rapidly changing world.

Texas Tech University alumni and graduates have governed states, flown in space, served as Presidential cabinet members, won Olympic gold medals, served as ambassadors to foreign countries, acted on Broadway stages, won Pulitzer Prizes, served in Congress, led Fortune 500 companies, and been watched by millions on network television news.

All Texas Tech graduates can point with pride to the solid academic preparation they received and the personal connections they made as Red Raiders. For beneath the spacious skies of West Texas and in the halls of brick and tile through which they strolled during their time on campus, generations of Texas Tech students have been provided a foundation for success that is without parallel. As they take their first steps into careers that will see many of them literally change the world, they can remember with certainty one important fact about Texas Tech University:

From here, it's possible.

Friday, December 15, 2023 2:00 p.m.

Presiding	Dr. Lawrence Schovanec President, Texas Tech University
Processional*	Texas Tech Commencement Band Dr. Sarah McKoin, Conductor
National Anthem	Ms. Sierra Richardson Bachelor of Music, December 2023
Welcoming Remarks	Mr. Mark Griffin Chairman, Board of Regents, Texas Tech University System
Student Speaker	Ms. Paige Martin Bachelor of Music, December 2023
Conferring of Degrees	Dr. Lawrence Schovanec Dr. Ronald Hendrick Provost and Senior Vice President
Recognition of Outstanding Students Class of 2023	Dr. Ronald Hendrick
Charge to the Graduates	Dr. Lawrence Schovanec
Alma Mater (Words on Back Cover)	Ms. Jana Zacharias Bachelor of Music, December 2023
Presentation of Degree Candidates	Dr. Jesse Perez Mendez, Dean, College of Education Dr. Martin Camacho, Dean, J.T. & Margaret Talkington College of Visual & Performing Arts Dr. Tosha Dupras, Dean, College of Arts & Sciences Dr. Jill Hernandez, Dean, Honors College
Closing of Ceremony	

Friday, December 15, 2023 7:00 p.m.

Presiding	Dr. Lawrence Schovanec President, Texas Tech University
Processional*	Texas Tech Commencement Band Dr. Sarah McKoin, Conductor
National Anthem	Ms. Juliana Statile Master of Music, December 2023
Welcoming Remarks	Mr. Mark Griffin Chairman, Board of Regents, Texas Tech University System
Student Speaker	Dr. Alicia Thomas Doctor of Philosophy in Plant and Soil Science, December 2023
Conferring of Degrees	Dr. Lawrence Schovanec Dr. Ronald Hendrick Provost and Senior Vice President
Recognition of Outstanding Students Class of 2023	Dr. Ronald Hendrick
Charge to the Graduates	Dr. Lawrence Schovanec
Alma Mater (Words on Back Cover)	Ms. Juliana Statile Master of Music, December 2023
Presentation of Degree Candidates	 Dr. Mark Sheridan, Vice Provost for Graduate and Postdoctoral Affairs; Dean, Graduate School Prof. Urs Peter Flueckiger, Dean, Huckabee College of Architecture Dr. Patrick Hughes, Dean, University Studies
Closing of Ceremony	

Saturday, December 16, 2023 9:00 a.m.

Presiding	Dr. Lawrence Schovanec President, Texas Tech University
Processional*	Texas Tech Commencement Band Dr. Sarah McKoin, Conductor
National Anthem	Ms. Jana Zacharias Bachelor of Music, December 2023
Welcoming Remarks	Mr. Clay Cash Board of Regents, Texas Tech University System
Student Speaker	Ms. Laura Ogletree Bachelor of Science in Mechanical Engineering, December 2023
Conferring of Degrees	Dr. Lawrence Schovanec Dr. Ronald Hendrick Provost and Senior Vice President
Recognition of Outstanding Students Class of 2023	Dr. Ronald Hendrick
Charge to the Graduates	Dr. Lawrence Schovanec
Alma Mater (Words on Back Cover)	Ms. Jana Zacharias Bachelor of Music, December 2023
Presentation of Degree Candidates	Dr. Roland Faller, Dean, Edward E. Whitacre, Jr. College of Engineering Dr. Margaret Williams, Dean, Jerry S. Rawls College of Business Administration
Closing of Ceremony	

Saturday, December 16, 2023 1:30 p.m.

Presiding	Dr. Lawrence Schovanec	
	President, Texas Tech University	
Processional*	Texas Tech Commencement Band Dr. Sarah McKoin, Conductor	
National Anthem	Ms. Sierra Richardson Bachelor of Music, December 2023	
Welcoming Remarks	Mr. Clay Cash Board of Regents, Texas Tech University System	
Student Speaker	Ms. Carlye Winfrey Bachelor of Science in Agricultural Communications, December 2023	
Conferring of Degrees	Dr. Lawrence Schovanec Dr. Ronald Hendrick Provost and Senior Vice President	
Recognition of Outstanding Students Class of 2023	Dr. Ronald Hendrick	
Charge to the Graduates	Dr. Lawrence Schovanec	
Alma Mater (Words on Back Cover)	Ms. Sierra Richardson Bachelor of Music, December 2023	
Presentation of Degree Candidates	Dr. Clint Krehbiel, Dean, Davis College of Agricultural Sciences & Natural Resources Dr. Rob Stewart, Interim Dean, College of Media & Communication Dr. Tim Dodd, Dean, College of Human Sciences	
Closing of Ceremony		

LETTER FROM THE PRESIDENT

To the Class of 2023,

If there's one thing I've learned in all my time at Texas Tech, it's that every student who blesses this campus with their presence represents a wonderful story to be discovered. This university would be a very different place without you and the various cultures and experiences you've brought, all of which have enriched our campus.

Your graduating class is unique. You're graduating during our centennial year. I challenge each of you to make your mark and leave your footprints all over this world. Because you are Red Raiders, there is an expectation that you will change the world for the better.

Remember that Texas Tech will always be your home, and friendships made here will always be part of your life. Return to campus when you can, and proudly tell the world you are a Red Raider.

To the class of 2023, I extend my heartfelt congratulations and best wishes for success.

Go Tech!

Survence Schovanec

Lawrence Schovanec, President

STUDENT SPEAKERS



Paige Martin is graduating with a Bachelor of Music with concentrations in music education and violin and a minor in mathematics. In the spring of 2024, she is returning to Texas Tech to complete a Master of Music Education degree and intends to graduate in the fall of 2024, after which she plans to teach orchestra at a public secondary school. She finds joy in teaching because she believes that her purpose is to give students a musical outlet for their self-discovery and personal growth. She is originally from Midland, Texas.



A licia Thomas is a Ph.D. in the Department of Plant and Soil Science and is originally from O'Donnell, Texas. Under the guidance of Dr. Catherine Simpson, her research involved using horticultural therapy for military service members. Alicia accepted her dream job as an assistant professor of practice in the Department of Plant and Soil Science at Texas Tech University. She wishes to become a fully registered horticultural therapist so she can help improve the mental and physical health of those living in West Texas, from nursing homes to drug rehab facilities, with the use of plants.

STUDENT SPEAKERS



Laura Ogletree is a mechanical engineering student graduating summa cum laude with honors from the Whitacre College of Engineering. During her time at Texas Tech, Laura served as an officer of the American Society of Mechanical Engineers, where her love for TTU and engineering grew. Laura has always had a passion for medical technology and has interned with Abbott Labs for the past year. She will continue working with them full time in Atlanta, Georgia, upon graduation. Outside of school and work, Laura is a dedicated runner and enjoys making music.



Carlye Winfrey is originally from Seminole, Texas, and is graduating from Texas Tech with a Bachelor of Science in Agricultural Communications and a minor in political science. During college she was actively involved through the Matador Institute of Leadership Engagement, Chancellor's Ambassadors, Student Government Association, Kappa Kappa Gamma, and the 2021 National Champion Wool Judging Team. She was a student assistant for the Texas Tech University System Office of Government Relations and studied abroad in Seville, Spain. She recently completed a Government Public Service Internship Program as an intern with the U.S. Department of State and the U.S. House Committee on Agriculture. Upon graduation, Carlye will work as a government relations manager with Monument Advocacy in Washington, DC.

CONVOCATIONS COMMITTEE

Dr. Rhonda Boros, Chair Dr. Jhones Sarturi, Past Chair Mr. Josh Adamek Dr. Corey Brelsfoard Dr. Carla Davis Cash Dr. Yoojin Chae Dr. Julie Chang Ms. Morgan Chavez-Brannon Dr. Jon Crider Ms. Sarah DeVille Dr. Sara Dodd Dr. Kristi Gaines Ms. Brady Ganus Dr. Michael Giesselmann Ms. Maggie Gilchrest Dr. Alastair Hamilton Dr. Zach Hohman Mr. Nate Imai Dr. Catherine Jai Dr. Babu John-Mariadoss Dr. Lourdes Juan Dr. Jin Jung Ms. Nikki Kantelis Dr. Jacob Kirksey Ms. Bethany Kuwitzky Dr. Stacy Lee Dr. Erin Marie Legacey Mr. Jarett Lujan Dr. Conrad Lyford Dr. Ann Mastergeorge Ms. Evelyn McCune Dr. Lauren Miller Dr. Mihwa Park Mr. Damian Pantoya Dr. Michelle Pearson Mr. Daniel Perez Dr. Cvnthia Phelps Dr. Christy Rogers Mr. Tom Rohrig Dr. Sarah Schwintz Mr. Sean Scully Dr. Leslie Thompson Dr. Susan Tomlinson Dr. Joshua Tropp Mr. Von Venhuizen Dr. Vijay Hedge Ms. Kim Walker Ms. Feruzan Williams Ms. Jordan Dahl Ms. Amiee Dixon Ms. Abby Walton

PROGRAM

This program was produced by the Office of the Provost in cooperation with the Convocations Committee and the Office of Official Publications at Texas Tech University, Lindsay Hallowell, Director, and Kaelene Hansen, Senior Editor.

This program is an unofficial list of Fall 2023 graduates and should not be used to determine a student's academic or degree status. The actual award of honors reflected on a student's diploma will be determined by the student's final academic average. The university's official registry for conferral of degrees is the student's permanent academic record kept by the Office of the Registrar.

COLLEGE READERS

Davis College of Agricultural Sciences & Natural Resources - Dr. Courtney Meyers Huckabee College of Architecture -Prof. Anthony Cricchio College of Arts & Sciences - Dr. Jorge Iber and Dr. Sean Cunningham Rawls College of Business Administration -Mr. Derrick Ginter College of Education – Dr. Ana Torres Whitacre, Jr. College of Engineering -Dr. Jeremy Marson Graduate School - Dr. Allison Childress and Dr. Babu John-Mariadoss Honors College - Dr. Jorge Iber College of Human Sciences -Dr. Bill Gustafson College of Media & Communication -Dr. Glenn Cummins University Studies - Prof. Raynie Gibbs Talkington College of Visual & Performing Arts -Ms. Rachel Hirshorn-Johnston

ADMINISTRATIVE REPRESENTATIVES

Davis College of Agricultural Sciences & Natural Resources - Mr. Michael Harper Huckabee College of Architecture -Ms. Amy Peterman College of Arts & Sciences -Ms. Kymberli Saldaña Rawls College of Business Administration -Ms. Geleah Sharp College of Education - Ms. Cheryl Shaffer Whitacre, Jr. College of Engineering -Ms. Patricia Rodriguez Graduate School - Ms. Vanessa Bara and Ms. Alyssa Reichert Honors College - Ms. Beth Scheckel College of Human Sciences -Ms. Shannon Tebo College of Media & Communication -Ms. Julia Heard Witt University Studies - Ms. Courtney Lynn Talkington College of Visual & Performing Arts - Mr. Aaron Chavarria

STUDENT BANNER BEARERS

Davis College of Agricultural Sciences & Natural Resources – Ms. Wrye Akers Huckabee College of Architecture -Mr. Colton Rohrbach College of Arts & Sciences - Mr. Luke Ford Rawls College of Business Administration -Mr. Luke Rotondo College of Education - Ms. Kacie Henson Whitacre, Jr. College of Engineering -Mr. Brennan Quick Graduate School - Mr. Connor Bryant Honors College - Ms. Peyton Daniels College of Human Sciences -Ms. Maris Hammock College of Media & Communication -Mr. Adam Bennett University Studies - Mr. Jeramiah Phillips Talkington College of Visual & Performing Arts - Ms. CJ Goodyear

FACULTY BANNER BEARERS

2:00 p.m. – Ghislaine Fremaux, M.F.A. Associate Professor of Painting, Talkington College of Visual & Performing Arts
7:00 p.m. – Saif Haq, Ph.D. Professor of Architecture, Huckabee College of Architecture
9:00 a.m. – Kirsten Cook, Ph.D. Frank M. Burke Chair in Taxation, Area Coordinator and Professor of Accounting, Rawls College of Business
1:30 p.m. – Nicole Piland, Ph.D. Associate Professor of Practice in Couple,

Marriage, and Family Therapy, College of Human Sciences

PRESIDENTIAL MACE

ROWNED BY A FLAME symbolizing the Light of Knowledge, the Texas Tech University Presidential Mace is the symbolic staff of the power and authority of the university. It is constructed of lathed and molded bronze that has been rubbed with a layer of 24K gold. The school crest is presented on either side directly under the flame. Hand-rubbed black walnut has been used for the connecting shafts. The mace was designed by Professor Robly A. Glover in the School of Art. Professor Glover's artwork is on display throughout the United States and included in the permanent collections of the Art Institute of Chicago, The Yale Silver Collection, and the Victoria and Albert Museum in London.

MACE BEARERS

2:00 P.M., DEC 15	JAMES DURHAM, M.Ed.
	Instructor in Teacher Education,
	College of Education
7:00 P.M., DEC 15	JIM CHILDERS, Ph.D.
	Assistant Director, Lecturer, INTS Program Coordinator,
	University Studies
9:00 A.M., DEC 16	BEIBEI REN. Ph.D.
,	ry and Nancy McVay Endowed Professor in Engineering,
Lui	Associate Professor of Mechanical Engineering,
	Whitacre College of Engineering
1:30 P.M., DEC 16	JOHN RAYFIELD, Ed.D.
Pr	ofessor of Agricultural Education and Communications,
Da	vis College of Agricultural Sciences & Natural Resources



CANDIDATES FOR TEACHER CERTIFICATION

Ramon Arguelles Leimy Baeza Alex Bailey Jordyn Barrie Nadia Bastidas Eric Boatman Shelly Burton Samantha Carter Carsin Coker Andrew Couch Georgiana Crist Sara Elliott Amanda Farmer Cassidy Freeman Sterling French Alyssa Frescas Isabella Garcia Adamaris Garcia James Gauna Alma Gonzalez Carroll Goodyear Kacie Henson Abbie Janke Brigit Johnson Anna Kindschuh Loren Labuda Beatrice Madrid Paige Martin Suany Molina Theresa Pena Candace Plasencio Sierra Richardson Angelica Ruiz Sierra Salas Elizabeth Sauceda Lidia Serrano Victoria Solis Holden Sutton Maxime Vrij Josie Warner Kaylee Webb Darci Williams Natalie Wolfe Jana Zacharias Dalton Zander Rosanna Zapata

GRADUATION HONORS

Graduating seniors who have maintained an overall 4.0 GPA include the following:

Jessica Karum Abdel Meseeh Cole Agnew Victoria Agu-Udemba Roque Luis Alaniz Gabriela Arias **Bradley Barker** Brooke Denae Barrett Lowrey Beard Aislyn Beauregard **Brittany Beeson** Adam Steven Bennett **Rilee Paige Bennett** Merek Anthony Brister Jessa Lisheng Bulman Christian Justus Camacho Maverick Avery Campbell Madeline Rose Correa Bethany Rose Crenwelge Kinsey R. Cudnoski E'lexia Brontay Davis Reanne Goretti De Souza

Rachel Addison Demarais Connor Dierschke Jakob Gunner Driver Precious Ugochi Elele **Rayell Fabrizius** Avery Ann Frazier Joanna K. George Carroll Jane Goodyear Christina Elizabeth Greene Lilian Adair Greenig Riley Elizabeth Greiten Kayla Vannia Guevara Wesley Adam Harwell Mason Heflin Kacie Marie Henson Gonzalo De Jesus Holguin Torres Jackson Kirk Horton Mitchell Ryan Hudgens Braden Andrew Karley Ashlyn Louise Kelly William Marek Kerr

Keaton Henderson Kirk Callie Shay Kniepkamp Andrew Theodore Koch Kiley Madison Lavelle Hannah Alise Leisure **Travis James Libre** Zachary Locke Samantha Lupul Milan Vivek Maheshwari Paige Delaney Martin Sara Aydee Masterson Ethan Mathew Asher Grace McPherson Caitlin Meinke Calahan Memphis George Mitchell Haley Marie Moreno Holden James Murphy Bryce Murrin Akshar R. Patel Mili Patel

Samuel Elliott Kiely

Jeramiah Phillips Candace Rene Plasencio Alan Eduardo Polanco Cavazos Brennan M. Quick Raj Nilesh Raman Luke Anthony Rotondo Sabra Sanchez Hala Hamed Shabaneh **Courtney Marie Smith** Kaitlin Marie Stretten Anya Preetika Sumanth **Carson Blake Tibbels** Gabrielle Urteaga Santiago Usabiaga Makenzie Alisa Valerio Marco Antonio Vilca Gonzales Carissa Renee White **Delaney Mark Woodell**

The **doctoral degree** is the most advanced earned degree conferred by American institutions of higher learning. The doctorate usually represents prolonged periods of advanced study culminating in a dissertation intended to contribute substantially to the body of knowledge on the subject. The most widely sought doctorate is the Doctor of Philosophy, which no longer has an implication of philosophy as the major field of study but represents advanced research in any of the major fields of knowledge.

The **master's degree** is an academic honor bestowed upon students who have successfully completed work beyond the baccalaureate. Both a thesis and an oral examination are usually but not always required. When applicable, the graduate's thesis topic is listed.

DOCTOR OF EDUCATION

AGRICULTURAL EDUCATION

Virgilia Adele Beyer-Junfin

Dissertation: Understanding Perceptions About and the Practice of Integrated Pest Management and Biological Control of Filth Breeding Flies by Equine Veterinarians in the United States *Major Professors:* Theresa P. Murphrey and David Lawver

Cynthia Michelle Pierfax

Dissertation: An Exploration of Black 4-Her's Career Choice after Implementation of a Culturally Relevant STEM/Agricultural 4-H Program *Major Professor:* Chandra Elbert

EDUCATIONAL LEADERSHIP

Cesar Condarco

Dissertation: The Value of SEL Implementation. Using Targeted Professional Development on Social and Emotional Learning for Teacher Implementation

Major Professor: Joseph Claudet

Catherine Ashley Givens

Dissertation: Culturally Responsive Teaching Effects on Teacher Perceptions of English Language Learner Students in an Urban Mathematics Classroom

Major Professor: Joseph Claudet

Jillian Shawndrae Howard

Dissertation: Developing Teacher Efficacy in English Speaking Acquisition: An Action Research Study Maine Professor: Fornando Valla

Major Professor: Fernando Valle

HIGHER EDUCATION ADMINISTRATION

Barbara Lynn Corbisier

Dissertation: Title IX Mandatory Reporters and Nonreporting: Reasons for Agreement with Reporting Requirements or Engaging in Reporter Nullification in Higher Education *Major Professor*: Stephanie Jones

David Vincearl Jones

Dissertation: Lesbian, Gay, Bisexual, Transgender, and Queer Community College Students' Engagement with Student Support Services and Effects on their Success *Major Professor*: Stephanie Jones

Jessica Klein

Dissertation: Information Security Officers' Perceptions of How to Implement Successful Information Security Programs in Health Sciences Center Environments Major Professor: Stephanie Jones

Alma Louise Leon

Dissertation: The Impact of Disability-Focused Training Skills at a Two-Year Community College for Pre-tenure Track Faculty Working With Students With Disabilities *Major Professor:* Bryan Hotchkins

Catherine Victoria Mas

Dissertation: Rethinking the Supplemental Instruction Model to Meet the Needs of Community College Students *Major Professor:* Stephanie Jones

DOCTOR OF MUSICAL ARTS

MUSIC

Jonathan Brian Guelfand Dissertation: 12 Preludes by Edward R. Nelson: A Compositional and Interpretive Analysis Major Professors: Nataliya Sukhina and Peter Martens

Claire Elizabeth Salli

Dissertation: Bridging the Gap: Three Intermediate Pieces for Saxophone with Selected Extended Techniques

Major Professor: David Dees

Diego Elias Silva Aguilera

Dissertation: Exploring Balanced Contrary Motion in Double Bass Playing through Laban Bartenieff Concepts *Major Professor:* Mark Morton

DOCTOR OF PHILOSOPHY

ADDICTIVE DISORDERS AND RECOVERY STUDIES

Shelby Marie Hatch

Dissertation: The Effects of Substance Abuse Felony Punishment Facility on Drug Related Recidivism: A Decision Tree Analysis *Major Professors*: Sterling Shumway and Eugene Wang

Zachary Cooper Nichols

Dissertation: The Effects of Alcohol on Physical Violence Towards Minors *Major Professors*: Eugene Wang and Thomas Kimball

AGRICULTURAL AND APPLIED ECONOMICS

Rachel Elizabeth Buck Dodson

Dissertation: The More the Merrier: Application of Machine Learning Processes on Social Determinants of Health Data to Ameliorate the Effects of Chronic Disease on Individuals and Communities *Major Professor:* Stephen Devadoss

Matthew Aaron Looney

Dissertation: Investigations of Market Power in the U.S. Beer Industry *Major Professor*: Benaissa Chidmi

AGRICULTURAL COMMUNICATIONS AND EDUCATION

Pin Hsueh Lee

Dissertation: Experimental Evidence on Public Attitudes toward Genetically Modified Organisms through Message Presentation Type and Source of Message

Major Professor: Amy Boren-Alpizar

ANIMAL SCIENCE

Paulo Roberto Menta Junior

Dissertation: Predicting Metritis Cure as a Path to Reducing Antimicrobial Use in Dairy Cows *Major Professor*: Vinicius Machado

Angela Maria Perdomo Reyes

Dissertation: Microbial Exploration in a Dairy Operation: *Staphylococcus aureus* and Other Microbial Communities Through a One Health Lens

Major Professor: Alexandra Calle

Cesar Augusto Sepulveda Cossio Dissertation: Repeatability of Rapid Evaporative Ionization Mass Spectrometry (REIMS) Applied to Different Muscles and Different Steak Sections in Beef Ribeye and Strip Loins Major Professor: Mark Miller

BIOLOGY

Christopher Allen Johnson Dissertation: Heterospecific Information and Landscapes of Fear and Safety Major Professor: Kenneth Schmidt

Mousumi Akter Mary

Dissertation: Towards the Development of Environmentally Friendly Methods to Control Harmful Blooms of *Prymnesium parvum Major Professor:* Reynaldo Patiño

Benneth Chigozie Obitte

Dissertation: Why Hunt: The Socio-ecological Drivers and Ecological Consequences of Bat Hunting in an Afrotropical System Major Professor: Tigga Kingston

Caoyuanhui Wang

Dissertation: Studies on the Mode of CRF Action in the Optic Tectum of the African Clawed Frog, *Xenopus laevis Major Professor:* James Carr

CHEMICAL ENGINEERING

Rohan Suresh Ingrole

Dissertation: A Vaccine Coated Floss as a Novel Vaccination Platform Major Professor: Harvinder Singh Gill

Behnaz Jafari

Dissertation: Electrochemical Fabrication of Multifunctional Textiles using Graphene-related Materials *Major Professor:* Gerardine Botte

Maasoomeh Jafari

Dissertation: Valorization of Bio-waste by Electrochemical Treatment and Beyond *Major Professor:* Gerardine Botte

Ideraoluwa Abdul-Azeez Lawal

Dissertation: Eyedrops, Jets and Tattoos: Understanding the Fluid Dynamics of Ophthalmic and Transdermal Drug Delivery *Major Professor:* Jeremy Marston

Ishan Pandey

Dissertation: Computational Modeling of Thermophysical, Adsorptive, and Material Properties using Density Functional Theory, Molecular Simulations, and Machine Learning *Major Professors:* Joshua Howe and Chau-Chyun Chen

Ashwin Ramanujam

Dissertation: Insights into the Electrochemical Behavior of Coronavirus Major Professor: Gerardine Botte

CHEMISTRY

Ashley Nicole Moreno-Gongora Dissertation: Sonochemical Synthesis of Ferrite Nanoparticles Major Professor: Dominick Casadonte

Sai Zhang

Dissertation: Design and Synthesis of Organic Building Blocks, Monomers and Polymers Major Professor: Guigen Li

CIVIL ENGINEERING

Elham Abaie

Dissertation: Selective Sorption of Groundwater Contaminants using Novel Macrocyclic Materials *Major Professors*: Danny Reible and Yuexiao Shen

Sharif Reazul Arefin

Dissertation: Endogenous Selection Models for Railroad Crash Analysis Major Professor: Venky Shankar

Zhao Yang

Dissertation: Analysis, Occcurence, and Fate of Per- and Polyfluoroalkyl Substances (PFAS) in Pesticides and Grocery Store Produce *Major Professor:* Jennifer Guelfo

Yibin Zhang, Sr. Dissertation: Online Vehicle Trajectory Extraction Based on LiDAR Data Major Professor: Hongchao Liu

COMPUTER SCIENCE

Ghazanfar Ali

Dissertation: Dynamic Control and Automation of High-end Computing Systems Major Professor: Yong Chen

Zulfiqar Ali Khan

Dissertation: Novel Vulnerability Detection Techniques for Ethereum-based Smart Contracts Major Professor: Akbar Siami-Namin

Brody Kyle Williams

Dissertation: Designs and Optimizations for Heterogeneous High Performance Computing *Major Professor*: Yong Chen

COUNSELING PSYCHOLOGY

Paul Robert Burns

Dissertation: Depressive Symptoms, Life Satisfaction, and Academic Nonpersistence among Mexican American College Students: The Roles of Personal Growth Initiative and Acculturative Stress

Major Professor: Christine Robitschek

COUNSELOR EDUCATION

Katherine Elizabeth Braeuer

Dissertation: The Efficacy of Telemental Health Substance Abuse Intervention with Justiceinvolved Youth *Major Professor:* Loretta Bradley

Carlos Jesus Castaneda, Jr.

Dissertation: Delayed and Denied: A Phenomenological Investigation of Women with Autism and their Experiences with Late Diagnosis *Major Professors*: Bret Hendricks and Nicole Noble

Melissa Kathleen Galica

Dissertation: Status Updated: Still ABD The Lived Experience of Counselor Educators in Extended Dissertation Circumstances Major Professor: Charles Crews

Charles W. L. Gill

Dissertation: Religious Addiction: A Qualitative Analysis of an Anecdotal Concept Major Professor: Bret Hendricks

Tanner Don Hargrove

Dissertation: Mindfulness Responses on Counselor Wellness: An Interpretative Phenomenological Study *Major Professors:* Bret Hendricks and Loretta Bradley

Erin Abigail Marden

Dissertation: Licensed Professional Counselors' Perceptions of Resilience Factors in Women Veterans Major Professor: Charles Crews

Valerie Kay McGaha

Dissertation: The Relationship Between Supervision, Licensure, and Population Served on Supervisee's Self-efficacy and Satisfaction *Major Professors*: Loretta Bradley and Bret Hendricks

Amy Lynn Onofre

Dissertation: Clinical Mental Health Student Interns' Perspectives of Advocacy in the Correctional System: A Qualitative Study *Major Professor*: Bret Hendricks

COUPLE, MARRIAGE, AND FAMILY THERAPY

Yi-Hsin Hung

Dissertation: Examining the EMDR Flash Technique on Racial Trauma and Incorporating Family Functioning

Major Professor: Kristy Soloski

Zachary R. Trevino

Dissertation: Understanding the Therapeutic Experiences of Latino Men: An Interpretative Phenomenological Inquiry Major Professors: Nicol Piland and Stephen Fife

CURRICULUM AND INSTRUCTION

Lara Colleen Alvarenga

Dissertation: Disrupting Powerlessness: The Reterritorialization of Dual Credit Curriculum and Instruction

Major Professor: Jeasik Cho

Connor Gene Bryant

Dissertation: The Impact of Flipped Learning on Middle School Mathematics Self-efficacy and Achievement: A Mixed Methods Study Major Professor: Gina Childers

Jocelyn Alane Edwards Miller

Dissertation: Power and Politics: How Policy Networks Influence Climate Change Education in Texas

Major Professor: Gina Childers

Chrissy LeAnne Eubank

Dissertation: Instructional Coaching as a Catalyst for Professional Growth: A Multiple Case Study of the Coaching Relationship Between Novice Teachers and Instructional Coaches *Major Professor:* Jeong Hee Kim

Kristina Powers Garrett

Dissertation: Mathematical Knowledge for Teaching and Design Thinking: A Case Study of Elementary Teachers at a STEM School *Major Professors:* Sungwon Shin and Jerry Dwyer

Marissa Contreras Guerrero

Dissertation: Developing a Transformational Leadership Professional Development and the Impact of such Professional Development in School Leaders' Behaviors in Title 1 Middle Schools: A Community-engaged Research Study Major Professor: Shirley Matteson

Brian David Horstman

Dissertation: The Writing Process without Proxy: The Case of Academic Writing among International Graduate Students *Major Professor:* Joshua Cruz

Ellen Marie James

Dissertation: Teacher Knowledge and Perceptions of Computational Thinking and Computational Thinking Skills in 5th-grade Mathematics *Major Professor:* Gina Childers

Deanna Lynn Hensley Kasitz

Dissertation: How Deep are the Roots? A Qualitative Case Study of a Grow Your Own Teacher Residency Program Exploring Program Factors Related to Teacher Job Embeddedness *Major Professor:* Joshua Cruz

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Claire Marie Lannoye-Hall

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Lindsay Leigh Malootian

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Dissertation: Development of Elementary Science Preservice Teachers' Content and Pedagogical Content Knowledge for Teaching Energy Using Content Representation Model Major Professors: Jian Wang and Jianlan Wang

Chloe Maria Spicer Morris

Dissertation: Three Approaches to the Preparation of Culturally Responsive Teachers in the Elementary Classroom: Picture Books, Persona Dolls and Immersive Field Experience *Major Professor:* Julie Smit

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Dissertation: Exploring Students' Content Knowledge, Identity, and Perceptions in Earth Science using Iterative Modeling Focused on Conceptual Change

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Annette Macias

Dissertation: Contextualizing High-stakes Teacher Evaluation Rating Component Scores: A Multilevel Analysis

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lan Stark

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ARCHITECTURE PROFESSIONAL Shima Diba Nathaly Ruvalcaba

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Rachel Ann Alvarado Lizzete Guadalupe Rendon

MASTER OF ARTS

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Leann Castillo

Thesis: A Bioarchaeological Study of Life History and Body Treatment at the Maya Site of Chan Chich, Belize

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HERITAGE AND MUSEUM SCIENCES

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HISTORY

Jameson Beckett L'Huillier Baudelaire *Thesis:* Still I Ride: A Cultural History of Black Women's Motorcycling, 1910-2020 Montana Leigh Chandler *Thesis:* Shining Out of the Cracks: Mexicana/ Latina Girlhood and Coming of Age in Rural Texas During the 1960s and 1970s Paloma Guerra *Thesis:* Dearest Darling Sweetheart Honey: Letters Home from War Hailey Sue Wilson

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Chad Farish Hall

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Morgan Paul Davidson

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Miranda Estefania Nina Hernandez De La Cerda Clinton *Thesis*: Latine Language Brokering Experiences and Mental Health Carlos Roryver Sanchez *Thesis*: Peer Victimization and Callous-Unemotional Traits: The Impact of Parents and Teacher

SOCIOLOGY

Nishat Tasnim Koli

- *Thesis:* The Association between Adolescence Obesity and Civic Participation in Early Adulthood
- Julian Lewis Tijerina *Thesis:* The Environment of Reproductive Rights Doesn't Skip a Beat: How do State's Social Composition Affect Policymakers' Passage of Fetal Heartbeat Laws?

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Jonathan Daniel Myers Bailey Patterson *Thesis:* The Anatomy of Interpretation: A Podcast Series for Effective Competitive Speech Performance using Aristotle's Poetics

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Corbin Monroe Craft

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AGRICULTURAL COMMUNICATIONS

Hannah BriAnn Culak

Thesis: Hispanic Student Motivation and Satisfaction after Participating in Organizations and Programs in the Gordon W. Davis College of Agricultural Sciences and Natural Resources

Paige Alison Hardesty

D'arcy Ann Ryder

Thesis: A Cut Above: A Qualitative Analysis of the Development and Implementation of the "More to Meat" Campaign in Australia

Kristine Louise Schechinger

Thesis: What Do You Remember? An Analysis of Information Retention and Recall through Data Visualization Use In Infographics

Ryleigh A. Semanchik

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Thesis: United States Consumers' Social Media Influencer Source and Message Frame Preferences for Receiving Beef Nutrition Information Shelby Anne Wright

ANIMAL SCIENCE

Ashley Marie Adams

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Thesis: Evaluating the Influence of Holstein vs Angus Dam Genetics in Wagyu Crossbreeding

Scenarios on Beef Quality Devin Edward Gonzales

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Emily Marie Webberson

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Reese Andrew Wilson

Thesis: Evaluation of Carcass Performance and Biomarkers Associated with Liver Abscess

ARID LAND STUDIES

Susana Gabriela Revollo Cadima *Thesis:* Identifying Areas of Conservation Importance Based on Spatial Patterns of Evolutionary Diversity: Non-volant Small Mammals in the Andean Puna

BIOENGINEERING

Allison Grace Foster Ritvik Preetam Kamarapu

BIOLOGY

Francisco Xavier Castellanos Insuasti *Thesis:* A Comparative Genomics Approach to Unravel the Evolutionary Dynamics of Transposable Elements and Innate Immune Genes in Chiroptera

Terri L. Cox

Thesis: Can Illicit Drugs be Detected in Predators? A Case Study for Alligator mississippiensis as Sentinels for Methamphetamine and Related Analyte Contamination

Faith Angelica Hurd

Sarah Vaca Puente

Thesis: Evaluation of the Bioinformatic tool RAM and Diversification of *Carollia perspicillata* and *C. brevicauda* (Chiroptera: Phyllostomidae) Jesse Fonda Ain White

Thesis: Arbuscular Mycorrhizal Fungi Response to Southern High Plains Soil and Industrial Hemp (*C. Indica*) Production

BIOTECHNOLOGY

Oluwagbemisola Elizabeth Adeniji Vaishnavi Ravindra Deshmukh Ravali Gopaldas Fethi Ahmet Inan

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Parisa Ahmadi

Thesis: Characterization of Glycans Derived from Biological Samples Using LC-MS/MS Chika Joseph Okorie *Thesis*: Glow Discharge Optical Emission Spec-

troscopy Elemental Mapping (GDOES-EM) for Nanoparticle Characterization in Plant Tissues

COMPUTER SCIENCE

Venkata Avinash Addagada Mounika Anantha Deepu Kumar Anumolu Venkat Nithin Atturu Ananya Bellamkonda, Jr. Manisha Bobba Alekhya Bugata Sandeep Kumar Burramsetty Yaswanth Kumar Chaganti Sree Naga Ravali Chandrapatla Aditya Chundi Surya Uday Damerla Akanksha Devulapally Amir Faiyaz Nikhilesh Reddy Gondesi KanvaKoushik Gopavarapu Rahul Teja Gorantala Rahman Gul Thesis: Exploring Efficient Federated Learning via Graph Signal Processing Raghava Ippala Monika Lakshmi Jampani Thivatharan Jeganathan Shiva Reddy Julakanti Surya Harshitha Kadali Thesis: Personal Drone-Assisted Dummy Generation Strategies for Enhancing Location Privacy Midhun Chakravarthy Kandimalla Pavan Sairam Kollimarla Srikar Goud Konda Sri Ram Koppaku Jayakumar Kukkathotti Greeshma Kundrapu Himaja Madala Deekshitha Mallela Kiran Mai Malluvalasa Goutham Mandalapu Harshavardhan Chowdary Marineni Annapurna Matam Manoj Metuku Pedda Bharath Miriyala Raga Navya Mokkapati Subhashchandra Bose Goud Muchchunoor Naga Giridhar Mukkam Sai Kiran Muthyala Sanjana Mutyala Naveen Ajay Kumar Nagineni Girinandana Sai Namburi Nishitha Nandikonda **Dileep Narne** Ngan Vuong Thuy Nguyen Pallavi Palagiri Deepthi Pathakamuri Rohith Sai Prasad Peketi **Rithvik Reddy Pinninti** Vaibhav Prasad Divya Pusuluru Madhuri Rachabattuni

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Thesis: Wood Origin Determination in Forensic Application via Enzymatic Assay

Elizabeth Joy Haddock

Thesis: Bioaffinity-based Concept for Glyphosate Detection

GEOGRAPHY AND THE ENVIRONMENT

Kevin Alexander JamesHWillem James Lee-StocktonGThesis: Dam Nation: Detecting Small Bodies ofHWater on the Brazos Watershed with RemoteSensingShaikh Sadiqur RahmanThesis: Testing "Global Stilling" with ERA5Reanalysis DataGisou Salkhi KhasraghiUmmat Safwat SristySamuel James Winters-SmithThesis: A Qualitative Analysis of Exotic Huntingin Texas

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Sara Madison Asta Madelynn Rose Baker Alyssa Nicole Clowdus Emmanuel D. Ferreira Jacey Michelle Gartner Amber Elizabeth Hunter Umma Tanila Rema *Thesis:* The Effects of Affect-Driven Factors and Work Meaningfulness on Hospitality Employee Retention: The Application of Affective Events Theory Hannah Elaine Roberts

HUMAN DEVELOPMENT AND FAMILY SCIENCES

Kaitlin Elise Brown Juliette Kathryn Gould Albert Saenz III

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MANUFACTURING ENGINEERING Aaron Michael Schultz

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MATHEMATICS

Mohammadi Qurratul Ain Sunday David Esebre

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Vibhuti Batra Austin Brougham Fardous Farhana *Thesis*: Lipid-based Nanoliposome Mediated Delivery of E4orf1 Peptides in Murine 3T3-L1 Preadipocyte Cells Cherishma Chowdary Ghanta Katie Michelle Knight *Thesis*: Differences in Lipogenic Gene Expression and Early Markers of Fatty Liver in C57BL/6J Mice Switched From a 45% Fat Diet to a 15% Fat Diet PERSONAL FINANCIAL PLANNING John Cyrus Gilbreath V Nasima Khatun Lindsey Brianne Smith

PHYSICS

Conner Dempsey N. Colby Dennis Avery Leigh Eddins *Thesis*: Detecting Radio Counterparts of Binary Neutron Star Mergers with the VLA and ngVLA Cheslee Jade Hibler *Thesis*: Nu Looks: A Hard X-Ray Survey of Nearby Bulgeless Spiral Galaxy NGC 2403 Keheliya Kudahewa Sergey Igorevich Magedov Dhruvanshu Mahesh Parmar

PLANT AND SOIL SCIENCE

Sharandeep Singh Chahal Thesis: Ecology of Rare Plant Species, Bartonia paniculata subsp. texana and Platanthera cooperi Macy Erin Long Blaine Austin Patton Thesis: Control of Annual Grasses Using New Sorghum Herbicides Hector Lee Valencia Thesis: Soil Health Assessment in Double Cropping Wheat Systems Across Texas

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Thesis: Changes in Vegetation Assemblages Following Mesquite Removal in Lubbock County Samantha Brooke Lehker

Thesis: Associations of the Carbonate System and Nutrient Levels on Growth of *Prymnesium parvum*

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Thesis: Surveillance and Prevalence of Potential Disease in Pronghorn (*Antilocapra americana*) and Mule Deer (*Odocoileus hemionus*) in the Texas Panhandle

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Thesis: Comparative Habitat Assessment to Investigate Feasibility of Habitat Restoration for the Dunes Sagebrush Lizard

Lauren Elizabeth Hanna Soliz Thesis: Assessing the Effects of Biological Invasions and Reduced Flows on a Spring-fed Stream Food Web in San Felipe Creek (Del Rio, Texas, USA)

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Mohammad Shayan Arif Moise Ntiba Baraka Thesis: Quantifying Floodwater Volumes and Defining Diversion Pathways: Data-Driven Analysis, and Mathematical Modeling Using Python Anish Chaulagain Sri Naga Venkata Harika Chigurupati Praveen Kumar Dammu Anjaneyulu Chowdary Gadde Anil Kumar Ganaparthi Nikhil Reddy Gavini James Henry Green, Jr. Paul Uwagbi Iyoha Praveen Kumar Kalepu Tarun Lagadapati Suresh Mandala Jagadish Mangali

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Charles Tyler Cornell John Thomas Crainer Thesis: A Software-Defined Multi Mode Radar for the Range Tracking and Life Sensing of Users in an IoT Environment Madhurima Reddy Gundala Qiuyi Ma William Cloud Moon Lakshmi Nishita Poranki Sadman Sami Rahman Md Wahiduzzaman Rakib Harrison Nicolas Spencer Thesis: Multipactor and Mitigation in X-band Waveguide **Clint Joseph Sweeney Dismas Cheruiyot Too** Franck Koffi Tossou Naga Venkata Ravi Kumar Veerla Atchou Woenagnon Vishal Gajendrarao Yadav Thesis: Linear and Circular Polarization Antenna Arrays for Harmonic Radar System: Passive Non-linear Tag Tracking Application **Biplov Yogi**

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RECEPTIONS

Immediately After Commencement Ceremony, Unless Otherwise Indicated

Davis College of Agricultural Sciences & Natural Resources | Texas Tech Dairy Barn

Saturday, December 16, 2:00 - 3:30 p.m.

Huckabee College of Architecture | Architecture Gallery, 1st Floor of College of Architecture

Thursday, December 14, 6:00 - 8:00 p.m.

College of Arts & Sciences | Holden Hall, Room 104 | Friday, December 15, 2:30 – 5:30 p.m.

Jerry S. Rawls College of Business Administration | McCoy Atrium | Saturday, December 16, 10:30 a.m. – 12:30 p.m. College of Education | Diploma Distribution, First Floor Staircase, College of Education

Edward E. Whitacre, Jr. College of Engineering | Livermore Center | Saturday, December 16, 11:00 a.m. – 12:30 p.m.

College of Human Sciences | El Centro, Human Sciences Building

College of Media & Communication | Ballroom, Student Union Building

J.T. & Margaret Talkington College of Visual & Performing Arts | Maedgen Theatre Building

Friday, December 15, 3:00 - 5:00 p.m.

University Studies Red Raider Lounge, Student Union Building Friday, December 15, 2:00 – 5:00 p.m.

TEXAS TECH TRADITIONS

Who's Sitting on a Horse? (And Why Is He Red?)

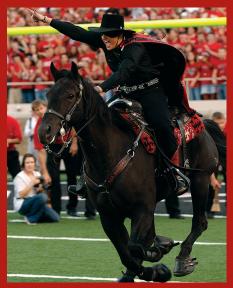
Will Rogers was one of the most famous entertainers in America in the 1920s and '30s, and his longtime friend, Amon Carter, was Texas Tech's first chairman of the Board of Directors. Rogers donated \$200 for the Texas Tech band to play at the football game against TCU in 1926 because he wanted people "to hear a real band." Then the cowboy humorist donated \$1,500 to buy band uniforms for the trip to Fort Worth. A few years after Rogers perished in a plane crash, Carter presented the statue of Rogers and his horse, Soapsuds, to Texas Tech. Sculpted by 18year old Electra Waggoner Biggs, the statue is one of four in the nation. Before every home game, the Saddle Tramps wrap "Old Will" with red crepe paper. The statue also has been wrapped in black to mourn national tragedies.





Raider Red or the Masked Rider?

Not every university wants a horse in its stadium, so Texas Tech had to find an alternate mascot prior to the 1971 football season. That was the year the school's athletic conference passed a rule that prevented taking live animals to non-home games. That also was the year Raider Red was born from the imagination of cartoonist Dirk West. Raider Red changes from boots to soft-soled shoes for basketball games, and his student persona is kept a secret as he mingles with the crowds.



The Texas Tech Class Ring

As a constant reminder of their academic achievements and the traditions of Texas Tech University, students proudly wear the official Texas Tech class ring. This bronze sculpture of the official class ring sits next to the Merket Alumni Center. Traditionally the rings are worn with the university name facing inward when the students' hands are extended. After the degree is granted on graduation day, the ring can be turned around so that the name faces outward, a symbol that the new alumnus has a Texas Tech diploma and is ready to face the world. (www.TexasTechRing.org)



The banners displayed at Texas Tech University commencement ceremonies are patterned on military, political, and trade guild insignia that date back to the Middle Ages and beyond. Known as gonfalons, they most closely resemble the flags created by Italian city states before and during the Renaissance. The Texas Tech University flags were individually designed to display symbols and colors that represent the areas of interest of each unit.

The Faculty Banner displays the university colors, red with black, and features the university seal encircled by the words "Seal of Texas Tech University." The seal was designed by William



Ward Watkin, the original campus master planner, in 1924. The shield is a black escutcheon quartered by a red cross, on which are arrayed 10 cotton bolls, symbolic of the importance of cotton to West Texas and representing

Lubbock County and the nine surrounding cotton-producing counties. These symbols also reflect one of the original missions of Texas Technological College: "To provide students with a thorough education in textiles and technical engineering." The shield features emblems that evoke the university, community, state and nation. In the upper-left quadrant, a book symbolizes religion and academic traditions. A star in the upper-right corner stands for the Lone Star State of Texas. In the lower left a key represents home, and in the lower right the lamp of knowledge indicates the primary mission of Texas Tech University: "To develop and advance knowledge." Above the shield, an eagle, the national bird of the United States, spreads its wings. Mindful of the claims of all these constituencies, the faculty of the university create, transmit, and preserve knowledge.

The Davis College of Agricultural Sciences & Natural Resources is proud to be unveiling a new banner design in honor of the generous gift of Gordon W. Davis and Texas Tech's centennial year. The background of the banner is



black, accented with scarlet chevrons and the Double T, representing Texas Tech University. The banner is bordered by maize, the intercollegiate color for the agricultural disciplines. The placement

of the maize indicates the foundational nature of our college as one of the four founding schools of Texas Tech. In the center of the banner is a globe flanked by stalks of wheat reflecting the global scope of modern agriculture and natural resources management. The new banner was designed by Maeley Herring and Tristin Campbell.

The Huckabee College of Architecture at Texas Tech University originated



as the Department of Architectural Engineering within the College of Engineering in 1927. In 1968, this department became the College of Architecture and moved into its current building on campus. In

November 2022, the College of Architecture was renamed Huckabee College of Architecture and a new banner was created. The banner now reflects the new college name, the Double T logo, and a classic black and red theme. The banner was designed by the TTU Office of Communications & Marketing.

The blue background color of the



College of Education banner reflects the light blue color designated for education by the Intercollegiate Code and is also seen in the velvet border of education master's and doctoral hoods and doctoral gowns. The upper area of the banner carries a school building encircled by the words "College of Education" and "Scholarship, Leadership, Service" to represent the primary roles of the college as a unit dedicated to preparing teachers and furthering educational scholarship, leadership, and service. The Double T logo appears at the bottom of the banner.

The Jerry S. Rawls College of Business Administration banner was designed



through a collaborative effort of the staff in the college's Undergraduate Services Center. The background color of the banner is drab. The central image on the banner is a map of the world centered on Lubbock with the Texas Tech University

Double T symbol rising from a focal point in the South Plains. The banner symbolizes the impact of globalization in the modern business environment.

The **College of Arts & Sciences** banner was redesigned in 2014 by Randy Lacy, unit coordinator in the college. Crafted



with classical typography and bold lines, the banner replaces the previous college seal with the famous Double T logo. The red and black colors appropriately represent the largest and most diverse college in the university.

The **Graduate School** banner is blue. Imposed on this background is a white circle within a light blue one. These



circles contain the image of a golden open book and a burning lamp. The open book symbolizes knowledge and the lamp represents a light by which to study. The banner was designed by the late Associate Dean Thomas Langford and Ms. Beth Cain, who was a Graduate School staff member and artist for many years.

The banner of the Edward E. Whitacre, Jr. College of Engineering features the seal of the college set on a field of orange, the academic color for engi-



neering. The seal of the college, inspired by a 2009 design by chemical engineering student Unwana Essien, is encircled with a border of red, white, and black, symbolizing the spirit of Texas Tech Univer-

sity and the Red Raiders. The two stars represent the ethical duty of engineers to themselves and society. The four symbols in the center of the seal stand for the foundations of engineering:

• The light bulb, surrounded by a ribbon and questions, represents the inspiration of engineers to answer questions and solve problems.

• The square and globe represent the engineer's work as building blocks for the world.

• The hammer and screwdriver represent the practical application of the engineer's work.

• The atomic figure surrounding the beaker represents the confluence of math, science, and technology in the mind of the engineer.

The **Honors College** banner features a sky blue field onto which is placed a



silhouette of one of the Administration Building bell towers in dark blue. Superimposed on the silhouette is the Honors College emblem in gold: an open book that transforms into a bird taking flight. This symbol represents how

learning stimulates human creativity. At the bottom of the banner are the words in gold: "University Honors College." The **College of Human Sciences** banner was redesigned in 2016 and adapted



from an original design by former faculty member Dr. Ben Goh. The design depicts an adult, an adolescent, and a child. The diversity of faces and ages represents the families and communities served by the college

in its mission to improve and enhance human lives through teaching, research, and outreach. The image of the globe represents the goal of not only serving the lives of those in the local community but also connecting with the global community.

The College of Media & Communication banner illustrates waves of infor-



mation emanating from a single point—one voice heard by many. The banner is white with a crimson background framing waves of information reaching the public. Crimson is the color assigned by the Intercollegiate

Code to journalism, the common core subject area of the college. The white field represents honesty, decency, and purity. Beneath the crimson is the name of the college.

The banner for **University Studies** exhibits the colors of Texas Tech with a red background trimmed in black. The



focus of the banner is the silhouette of the Administration Building's bell tower, which is an iconic symbol of Texas Tech. Just as the university is comprised of many parts, University Studies integrates

multiple programs from colleges across the university. The traditional Double T placed in a window of the tower signifies the future that awaits students who complete these programs in preparation for successful careers.

The J.T. & Margaret Talkington College of Visual & Performing Arts banner is designed to represent the three schools



that make up the college. The abstract design inspires intellectual skill, artistic ability, and creative thinking, representing the students emerging from the college. Subtle shapes hint at lines in reading music, sound waves for

theatre and dance, and line and shape to include the arts. Chloe Walser, an artist, graphic designer, and graduate from the School of Art, designed the banner for her commencement ceremony in May 2022.

The symbols on the **Texas Tech University Libraries**' banner reinforce the idea that the Library is the center of knowledge on campus. As such, it is the guardian and giver of knowledge and information. The key in the foreground



of the banner symbolizes the Libraries' role as guardian and safe keeper of all ideas. In the not too distant past, knowledge was considered sacred or something that was best kept locked away, thus the symbolism

of the key. The flames symbolize the Libraries' other and equally important role as the giver of knowledge, providing access to wisdom. For centuries, the use of fire was believed to be man's first step on the path to civilization; one characteristic of fire is its ability to spread, which represents the Library's role as purveyor of knowledge. The colors of the flames symbolize the three broad branches of knowledge; scarlet for humanities, gold for sciences, and the purple flame for social sciences.

ACADEMIC DRESS AND PROCESSION



MASTER'S ROBE: Velvet facing around the neck corresponds to color representing the field of study; hood lining represents the colors of the institution that conferred the degree.

earing academic dress at commencement ceremonies dates from the early history of the oldest universities created during the twelfth and thirteenth centuries. Because educated people were almost always of the clergy, the black gown is an adaptation of the "cope," a long mantle or cloak of silk or other cloth worn by church dignitaries in processions and on other occasions. The long gown and cowl (similar to the academic hood of today) were worn by priests and monks for warmth in the cold medieval buildings.

In the early centuries, a great diversity of color and style of cap, gown, and hood appeared in different universities of Europe. The European custom of wearing academic dress was later introduced at American colleges. Not until after 1895 was a uniform academic code of dress adopted by most U.S. colleges and universities. Today, the black robe, hood, and cap are worn at most institutions of higher learning. Some institutions have authorized doctoral gowns in colors other than the customary black.

The gowns used in American academic ceremonies vary according to the highest degree awarded to the wearer. Usually the bachelor's robe has long pointed sleeves and the master's has oblong sleeves, square at the end with a slit at the elbow. The doctoral gown is a more elaborate robe faced down the front with velvet and across the bell-shaped sleeves with three bars of velvet. The velvet facing and bars may be of the color distinctive to the field of study.

The doctoral hood has side panels and is slightly longer than the one worn for the master's degree. The color used in the velvet border of the hood indicates the field of study. The velvet border is widest on the doctor's hood, and the colors of the lining indicate the college or university that conferred the degree.



DOCTORAL ROBE: Velvet facing on front of robe and three bars on sleeve correspond to color representing the field of study; hood lining represents the colors of the institution that conferred the degree.

For example, those who have received advanced degrees from Texas Tech University wear hoods lined with red and black.

The Oxford—the so-called mortarboard—is black and has a long tassel fastened to the center. The tassel is usually worn with the pendant over the left front of the cap. Different colored tassels are often worn on the bachelor's and master's caps to indicate the type of degree. The tassel on the cap of the doctoral candidate, except for professional degrees, is either gold or black. The doctoral degree holders may also wear the velvet tam with a gold tassel.

Candidates for the undergraduate degree will wear the tassel on the right side of the cap at commencement. After the degrees have been conferred, baccalaureate degree recipients will turn the tassel to the left side of the cap, thus showing that they are now graduates. Those graduates who have the official Texas Tech Alumni Association class ring are invited to turn their rings at this time.

Candidates wearing red cords have earned the Latin designations of cum laude, magna cum laude or summa cum laude based on a minimum 3.5 cumulative grade point average. Candidates wearing kite-shaped medallions are Honors College graduates earning a minimum of 24 hours of Honors coursework. Medallions with red ribbons indicate a notation of "With Honors" (non-thesis) and gold ribbons indicating a notation of "With Highest Honors" (thesis).

Phi Beta Kappa students may wear their membership key as well as the society's dark blue honor stole and/or pink and blue honor cords. Members of Phi Kappa Phi, Mortar Board, and other honor societies may likewise display their societies' medallions and honor cords. Texas Tech University has five university-wide honoraries: Golden Key, Mortar Board, Omicron Delta Kappa, Phi Beta Kappa, and Phi Kappa Phi.

COLORS REPRESENTING FIELDS OF STUDY

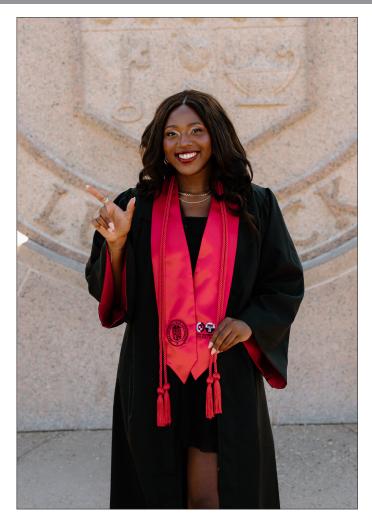
The following is a list of colors established by the Intercollegiate Code representing departments of learning and fields of study:

Maize Agriculture Blue-Violet Architecture White Arts, Letters and Humanities Drab Business Administration Lilac Dentistry Copper Economics Light Blue | Education Orange Engineering Brown | Fine Arts Russet Forestry Maroon Human Sciences Crimson Journalism Purple Law Lemon | Library Science Green Medicine Pink Music Apricot Nursing Silver Gray Oratory (Speech) Olive Green | Pharmacy Dark Blue | Philosophy Sage Green | Physical Education Peacock Blue Public Administration Salmon Pink | Public Health Gold-Yellow Science Citron | Social Work Scarlet | Theology or Divinity Gray Veterinary Science

HONOR CORDS / MEDALLION

The following is a list of honor cords/medallions issued by colleges.

Agricultural Sciences & Natural Resources | Green Architecture | White and Gold Arts & Sciences | Royal Blue Business Administration | Royal Blue and Gold Education | Jade Green and Violet Engineering | Orange Honors | Honors Medallion Human Sciences | Maroon Media & Communication | Crimson University Programs | Red Visual & Performing Arts | Brown Wind Energy | Blue and Green



UNDERGRADUATE ROBE: A red stole displaying the Double T and seal of Texas Tech University distinguishes students receiving baccalaureate degrees. Degree candidates wearing red cords will graduate with honors designations based on a minimum 3.5 GPA.

TEXAS TECH COMMENCEMENT ANNOUNCEMENTS

GRADUATE PHOTOGRAPHS

A professional photographer will be taking photos of graduates as they receive their diplomas. You may view and order photos online at www.candidcolorphotography.com. Click on "view proofs" and then "graduations." Images will be posted within 48 hours of the ceremony. Photographers also will be available after the ceremony for photos of friends and family with the graduates. Photographers will be located outside the arena near the north parking lot. There is no charge or obligation for having these photos taken.

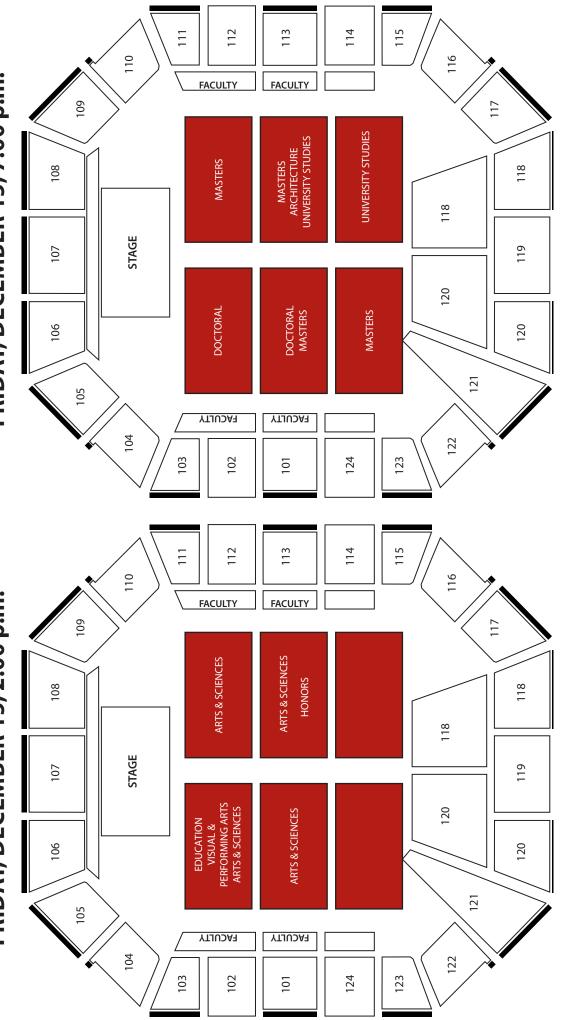
COMMENCEMENT DVD

The Texas Tech Alumni Association encourages graduates to order a Texas Tech Commencement DVD to commemorate their achievement. The \$45 purchase also will include a one-year Texas Tech Alumni Association gift membership. This membership will help graduates stay connected to Texas Tech. To reserve a copy of today's ceremony, complete and mail an order form located at one of the tables in each corner of the concourse. Do not leave the forms on the tables. Please mail them to the address on the form. To learn more about the Alumni Association, visit www.TexasTechAlumni.org or call 806.742.3641.









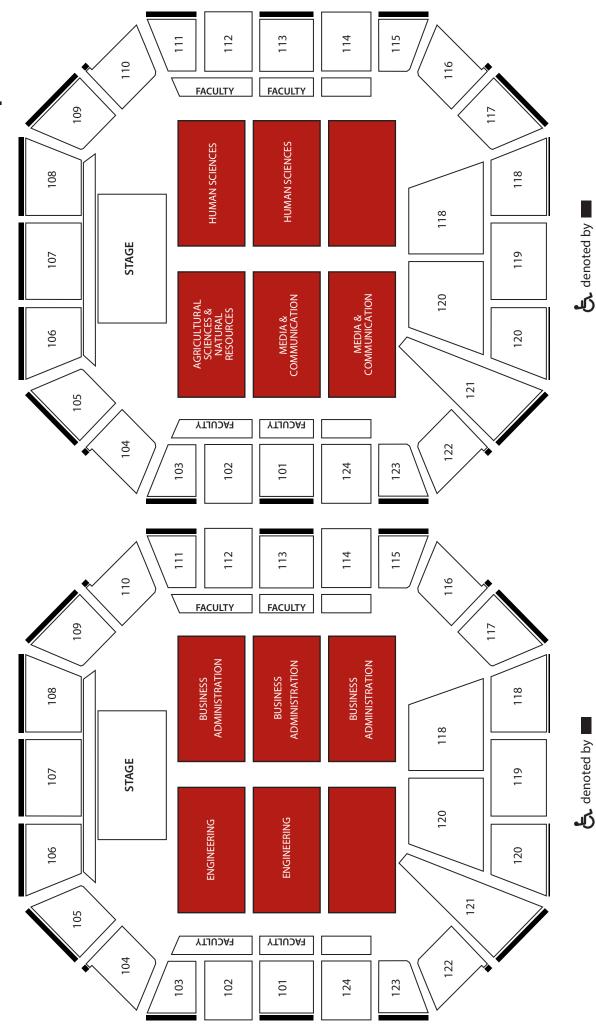
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SATURDAY, DECEMBER 16, 9:00 a.m.

SATURDAY, DECEMBER 16, 1:30 p.m.



Fight, Matadors, for Tech! Songs of love we'll sing to thee, Bear our banners far and wide. Ever to be our pride, Fearless champions ever be. Stand on heights of victory. Strive for honor evermore. Long live the Matadors!