



TEXAS A&M UNIVERSITY  
*Commencement*

*December 17, 2022, 9 a.m.*

*The audience is asked to stand for the procession. As a courtesy to the graduating class, guests are requested to refrain from leaving until after the recessional.*

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# TEXAS A&M UNIVERSITY COMMENCEMENT

## *Program*

Master's and Doctoral Degree Commencement and Hooding Ceremony

Saturday, December 17, 2022, 9 a.m.  
Reed Arena

Processional

The National Anthem

Invocation

Student Expression of Appreciation

Greetings and Authorization to Confer Degrees

Presentation of Degree Candidates and Conferring of Degrees

Roll Call of Graduates

Induction into The Association of Former Students

"The Spirit of Aggieland"

Recessional

*Faculty Marshals*

Mace Bearer

Dr. Nagamangala K. Anand, Vice President for Faculty Affairs

Stage Party

Dr. Rob Dixon, Communications Coordinator for Graduate and Professional School

Dr. Shannon Walton, Assistant Dean for Graduate and Professional School

Ms. Venesa Heidick, Registrar

Mr. Chris Reed, Executive Director of Admissions

Announcers

Mr. Mike Fitch, Admissions Counselor, Office of Admissions

Mr. Steve Fullhart, Manager, Brazos Valley Economic Development Corporation

*The Texas A&M University System  
Board of Regents*

Mr. Tim Leach, Chairman . . . . . Midland

Mr. Bill Mahomes, Jr., Vice Chairman . . . . . Dallas

Mr. Robert L. Albritton . . . . . Fort Worth

Mr. James R. "Randy" Brooks . . . . . San Angelo

Mr. Jay C. Graham . . . . . Houston

Mr. Michael A. "Mike" Hernandez III . . . . . Fort Worth

Ms. Elaine Mendoza . . . . . San Antonio

Mr. Michael J. Plank . . . . . Houston

Mr. Cliff Thomas . . . . . Victoria

Mr. Demetrius L. Harrell, Jr. (Student Regent) . . . . . Palatka, Florida

*Chancellor*

Mr. John Sharp . . . . . Placedo

*Texas A&M University Administrative Officers*

President . . . . . Dr. M. Katherine Banks  
Provost (interim), Vice President for Academic Affairs

and Chief Academic Officer . . . . . Dr. Alan R. Sams

Dean, College of Agriculture and

Life Sciences . . . . . Dr. Jeffrey W. Savell

Dean, School of Architecture (acting) . . . . . Dr. Patrick C. Suermann

Dean, College of Arts and Sciences (interim) . . . . . Dr. José Luis Bermúdez

Dean, Mays Business School (interim) . . . . . Dr. Ricky W. Griffin

Dean, School of Dentistry . . . . . Dr. Lily T. Garcia

Dean, School of Education and

Human Development . . . . . Dr. Michael A. de Miranda

Dean, College of Engineering (interim) . . . . . Dr. John E. Hurtado  
Dean, Bush School of Government and  
Public Service . . . . . General Mark A. Welsh III (Ret.)  
Dean, School of Law and Vice President for  
Professional Schools and Programs . . . . . Mr. Robert B. Ahdieh  
Dean, School of Medicine . . . . . Dr. Amy L. Waer  
Dean, School of Nursing (interim). . . . . Dr. Susan M. McLennon  
Dean, School of Performance,  
Visualization and Fine Arts (interim) . . . . . Mr. Timothy D. McLaughlin  
Dean, Irma Lerma Rangel School of Pharmacy. . . . . Dr. Indra K. Reddy  
Dean, School of Public Health . . . . . Dr. Shawn G. Gibbs  
Dean, School of Veterinary Medicine and  
Biomedical Sciences. . . . . Dr. John R. August  
Dean and Chief Operating Officer,  
Texas A&M University at Qatar. . . . . Dr. César O. Malavé  
Dean, Graduate and Professional School and  
Associate Provost (interim) . . . . . Dr. Fuhui Tong  
Chief Operating Officer and  
Senior Vice President. . . . . Mr. Gregory W. Hartman  
Chief Operating Officer and Senior Vice President,  
Texas A&M Health. . . . . Dr. Jon E. Mogford  
Chief Operating Officer and Vice President,  
Texas A&M University at Galveston. . . . . Colonel Michael E. Fossum (Ret.)  
Chief Financial Officer and Vice President. . . . . Mr. John W. Crawford  
Chief Information Officer and Vice President for  
Information Technology . . . . . Mr. Edwin L. Pierson  
Chief Compliance Officer and Vice President . . . . . Mr. Kevin P. McGinnis  
Executive Associate Vice President for Academic Affairs  
and Chief Academic Officer of Texas A&M University  
at Galveston and Associate Provost. . . . . Dr. Deborah Thomas  
Vice President for Academic  
and Strategic Collaborations . . . . . Dr. Susan G. Ballabina  
Vice President and  
Associate Provost for Diversity . . . . . Dr. Annie S. McGowan  
Vice President for Brand Development . . . . . Mr. Shane Hinckley  
Vice President for University Advancement . . . . . Mr. Andy Acker  
Vice President and Deputy CFO . . . . . Mr. Joseph P. Pettibon II  
Vice President for Facilities, Safety,  
and Security . . . . . Mr. Stephen B. Franklin  
Vice President for Faculty Affairs . . . . . Dr. Nagamangala K. Anand  
Vice President for Government Relations . . . . . Mr. Norman R. Garza, Jr.  
Vice President for Human Resources and  
Organizational Effectiveness . . . . . Mr. Damon Slaydon  
Vice President for Research . . . . . Dr. Jack G. Baldauf  
Vice President for  
Student Affairs . . . . . Brigadier General Joe E. Ramirez, Jr. (Ret.)  
Vice Provost of Student Success. . . . . Dr. Timothy P. Scott  
University Librarian and Assistant Provost,  
Texas A&M University Libraries . . . . . Ms. Julie A. Mosbo Ballestro  
Commandant of the  
Corps of Cadets . . . . . Brigadier General Patrick R. Michaelis (Ret.)

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*Candidates for Doctoral Degrees*

Presented by Dr. Fuhui Tong  
Interim Associate Provost and Dean

*Graduate and Professional School*

*College of Agriculture and Life Sciences*

*Doctor of Education*

Michael Roy Welch ..... Agricultural Education  
Record of Study: "Servant Leadership and U.S. Air Force Intelligence  
Officer Leadership Candidates"  
Chair: Barry L. Boyd  
Co-Chair: Amy Boren

*Doctor of Philosophy*

Yansoon Moneer Farhan Al-Jumaa ..... Poultry Science  
Dissertation: "The Evaluation of Various Antibiotic Alternatives  
for Optimum Poultry Performance under Pathogen  
Challenge"  
Chair: Christopher Bailey

Emilie Clare Baker ..... Animal Breeding  
Dissertation: "DNA Methylation Patterns in Prenatally Stressed  
Brahman Females"  
Chair: David G. Riley

Borja Barbero Barcenilla ..... Biochemistry  
Dissertation: "Plant Telomere Oxidation: Bridging the Oxidative Stress  
Response and Chromosome Ends Through Pot1b and  
Space"  
Chair: Jean-Philippe Pellois

Lance William Bauer ..... Animal Breeding  
Dissertation: "Evaluation of Correspondence of Feed Efficiency,  
Ultrasound Carcass, and Maternal Traits in Purebred  
Beefmaster Cattle"  
Chair: James Sanders  
Co-Chair: David G. Riley

Sarah Christine Brinkley ..... Horticulture  
Dissertation: "Pre- and Postharvest Effects on Coffee Quality"  
Chair: Ioana Botezatu  
Co-Chair: Leonardo Lombardini

Joseph Alan Burke ..... Soil Science  
Dissertation: "Benefits and Consequences of No-Tillage and Cover  
Crops in Semi-Arid Cotton Production"  
Chair: Julie A. Howe  
Co-Chair: Katie R. Lewis

- Charlayna Ann Cammarata ..... Wildlife and Fisheries Sciences  
 Dissertation: "A Survey of Texas Freshwater Turtles for Turtle Blood Flukes (Digenea: Schistosomatoidea: "Spirorchidae"), with Comments on Morphology, Updated Phylogenies and Cryptic Species"  
 Chair: William Grant  
 Co-Chair: Norman Dronen
- Mustafa Cilkiz ..... Molecular and Environmental Plant Sciences  
 Dissertation: "Molecular Mechanisms of Flowering Revealed by Systematic and Comparative Analysis of Transcriptomes in Chickpea and Related Species"  
 Chair: Hongbin Zhang
- Haley Claire Collins ..... Animal Science  
 Dissertation: "Evaluation of White Blood Cell DNA Methylation as a Tool to Predict DNA Methylation of the Adrenal Axis in Prenatally Stressed, Mature Brahman Cows"  
 Chair: David G. Riley
- Mark William Dinhobl ..... Agricultural Economics  
 Dissertation: "Parametric and Nonparametric Measurements of Rural and Urban Transit Efficiency"  
 Chair: James Mjelde
- Bidemi Tokunbo Fashina ..... Soil Science  
 Dissertation: "Experimental and Computational Investigation of The Adsorption of Pyocyanin on Clay Minerals"  
 Chair: Youjun Deng
- Tingfeng Guo ..... Biochemistry  
 Dissertation: "Investigations Into the Relationship Between Metabolism and Morphogenesis in *Bacillus subtilis*"  
 Chair: Frank Raushel
- John Christian Hitzelberger ..... Plant Breeding  
 Dissertation: "Development and Characterization of Chromosome Substitution & Chromosome Segment Substitution Lines in Cotton (*Gossypium spp.*)."  
 Chair: Jane Dever  
 Co-Chair: David Stelly
- Cheng Hu ..... Plant Pathology  
 Dissertation: "Enhancing Lignin Renewable Carbon Fiber and Plastic Via Lignin Biosynthesis and Its Chemistry"  
 Chair: Yuan Dai  
 Co-Chair: Shuhua Yuan
- Amanda Marie Jons ..... Genetics  
 Dissertation: "Design Principles for Protein Biomaterials in Next-Generation Medicine"  
 Chair: Sarah Bondos
- Akriti Khadka ..... Recreation, Park and Tourism Sciences  
 Dissertation: "Women's Empowerment and Adaptive Capacity to Climate Change A Case of Changes in the Chitwan District of Nepal"  
 Chair: Michael Schuett

- Joan Theresa King ..... Entomology  
 Dissertation: "Investigating the Molecular Basis of Host Manipulation by Phorid Fly Parasitoids on the Red Imported Fire Ant and Exploring How to Communicate Complex Topics in Entomology"  
 Chair: Edward L. Vargo
- Katy Elizabeth Lane ..... Agricultural Leadership, Education, and Communications  
 Dissertation: "International Experiences for College Students: Benefits, Challenges, Best Practices, Influence, and Value"  
 Chair: Theresa P. Murphrey
- Lauren Amanda Lawless ..... Nutrition  
 Dissertation: "The Effects of Prenatal Cadmium Exposure on Maternal, Fetal, and Offspring Health"  
 Chair: Ke Zhang  
 Co-Chair: Linglin Xie
- Chujun Li ..... Entomology  
 Dissertation: "Thermal Preference and Tolerance of the Black Soldier Fly, *Hermetia illucens* L. (Diptera: Stratiomyidae) Based on Development Stage, Age, Size, Sex, and Nutrition"  
 Chair: Jeffery Tomberlin
- Cameron Lee Martin ..... Poultry Science  
 Dissertation: "Generation of Antibodies in Agricultural Species Using Classical and Novel Platforms"  
 Chair: Luc Berghman
- Jaclyn Elizabeth Martin ..... Entomology  
 Dissertation: "A Tale of Three Invasive Insect Pests: Exploring Control Mechanisms for the Potato Psyllid (*Bactericera cockerelli*), the Rice Water Weevil (*Lissorhoptrus oryzophilus*), and the Rice Delphacid (*Tagosodes orizicolus*)"  
 Chair: Julio Bernal
- Katherine Marie Modrow ..... Animal Science  
 Dissertation: "The Nitric Oxide Synthase System: An Innovative Alternative Curing System for Meat and Poultry Products"  
 Chair: Wesley N. Osburn
- Karina Yazmine Morales ..... Plant Breeding  
 Dissertation: "Blooming Diversity: Leveraging Genome Editing for Novel Diversity in Days to Flowering in Rice (*Oryza sativa*)"  
 Chair: Michael J. Thomson
- Jackson V. Nielsen ..... Agronomy  
 Dissertation: "Winter Cover Crops in Texas Corn and Grain Sorghum Production Systems"  
 Chair: Ronnie W. Schnell
- Terry Lee Poehl ..... Agricultural Leadership, Education, and Communications  
 Dissertation: "The Conceptualization of Leadership Behavior on Follower Job Performance and Organizational Culture: A Qualitative Case Study of Law Enforcement Leadership"  
 Chair: Jennifer Strong



- Alexander Sterling Riegert . . . . . Biochemistry  
 Dissertation: "Biosynthesis of the Glucuronamide Moiety of the  
 Capsular Polysaccharide of *Campylobacter jejuni*"  
 Chair: Tatyana Igumenova
- Jose Carlos Santiago Gonzalez . . . . . Entomology  
 Dissertation: "Assessment of the Bt Resistance Allele Frequency,  
 Effective Dominance, and Redundant Killing of Multiple  
 Cry Resistance in *Helicoverpa zea*"  
 Chair: David L. Kerns  
 Co-Chair: Julio Bernal
- Siwan Song . . . . . Agricultural Economics  
 Dissertation: "Essays on Food Insecurity Dynamics, Assistance  
 Programs, and Healthy Eating"  
 Chair: Ariun Ishdorj
- Zachary Daniel Steffensmeier . . . . . Ecology and Evolutionary Biology  
 Dissertation: "Spatial Ecology of Imperiled Great Plains Fishes"  
 Chair: Joshua S. Perkin
- Rohith Vulchi . . . . . Agronomy  
 Dissertation: "Development of Longterm Stewardship Practices in  
 XtendFlex Cotton and Economic Analysis for Grower  
 Adoption in Texas"  
 Chair: Scott A. Nolte
- Zhen Wang . . . . . Molecular and Environmental Plant Sciences  
 Dissertation: "Roles and Mechanisms of H3.1K27me1 Methyltransfer-  
 ases in Defense Against Virus in Arabidopsis"  
 Chair: Xiuren Zhang
- Linqing Yang . . . . . Ecology and Conservation Biology  
 Dissertation: "Seasonality of Ecosystem Processes"  
 Chair: Asko Noormets
- Ka Man Jasmine Yu . . . . . Biochemistry  
 Dissertation: "Developmental and Environmental Regulation of  
 Bioenergy Sorghum Stem Growth"  
 Chair: Ping He

*School of Architecture*

*Doctor of Philosophy*

- Shatha Mohammed A. Abdulmajeed . . . . . Architecture  
 Dissertation: "A Qualitative Assessment of Biomimetic and Vernacular  
 Approaches to Design for Future Extremely Hot  
 Environments"  
 Chair: Stephen Caffey
- Benjamin Edward Baaske . . . . . Architecture  
 Dissertation: "Between Measure and Meaning: Exploring Expressions  
 of 'Third Table' Emergence in Digital Cultural Objects"  
 Chair: Robert B. Warden

Maryam Mansoori ..... Architecture  
 Dissertation: "Toward Material-Driven Adaptive Architecture: An Exploration of Transformable Surfaces with Shape-Memory Behavior"  
 Chair: Negar Kalantar Mehrjardi  
 Co-Chair: Zofia K. Rybkowski

Amaryllis H. Park ..... Urban and Regional Science  
 Dissertation: "Planning for Child-Friendly Community: Neighborhood Environment and Children's Mobility and Health"  
 Chair: Chanam Lee

Zohreh Shaghaghian ..... Architecture  
 Dissertation: "Learning Spatial Transformations and Their Mathematical Representations for Architecture and STEM: An AR-Powered Approach"  
 Chair: Wei Yan

*College of Arts and Sciences*

*Doctor of Philosophy*

Gia Octavia Alexander ..... English  
 Dissertation: "Scrivenography: A Study of the Material Culture of Writing in Victorian Britain"  
 Chair: Maura Ives

Shahd B S A Aljandal ..... Oceanography  
 Dissertation: "Hydrocarbon Degradation Potential in Free-Living and Micro-Aggregate Bacterial Structures in the Waters of the Gulf of Mexico"  
 Chair: Jason B. Sylvan

Scheherzad Alvi ..... Chemistry  
 Dissertation: "Dynamic Effects of Alkoxy Radicals"  
 Chair: Daniel Singleton

Troy Joseph Arcomano ..... Atmospheric Sciences  
 Dissertation: "Machine Learning Applications For Weather and Climate Modeling"  
 Chair: Istvan Szunyogh

Elham Azadbakht ..... Physics  
 Dissertation: "Comparison of Simulations and Data from Small High Voltage Single Crystal Detectors for Dark Matter Searches"  
 Chair: David Toback

Kushal Bhavik Bakshi ..... Neuroscience  
 Dissertation: "Auditory Cortical Specializations for Bat Echolocation"  
 Chair: Michael Smotherman

Anindito Satrio Baskoro ..... Geology  
 Dissertation: "Source Rock Reconstruction and Hydrocarbon Mass Balance Assessment - Applied to the Wolfcamp Formation in the Permian Delaware Basin"  
 Chair: Ethan Grossman  
 Co-Chair: Alan Z. Yu

- Jericka S. Battle ..... Psychology  
 Dissertation: "How Shifts in Power Affect Racial Attitudes"  
 Chair: Heather Lench  
 Co-Chair: Phia S. Salter
- Chloe Jeanne Bennett ..... Biology  
 Dissertation: "Exploring the RNA Landscape of the Post-Mating Response in *Drosophila melanogaster*"  
 Chair: Rodolfo Aramayo
- Debora Berti ..... Oceanography  
 Dissertation: "Micro to Nanoscale Investigation of Volcanic Glass Aqueous Alteration: The Cases of Rare Earth Mineralization and Remobilization in Texas Bentonite Deposits and Early-Stage Alteration of Galapagos Coastal Basalt"  
 Chair: Niall Slowey
- Milan Brankovic ..... Geophysics  
 Dissertation: "Towards an Improved Distributed Acoustic Sensing Workflow for Geothermal Resource Development"  
 Chair: Mark Everett
- Peiyu Cai ..... Chemistry  
 Dissertation: "Extending the Structural Diversity of Metal-Organic Frameworks (MOFs)"  
 Chair: Hongcai Zhou
- Peng-Hsun Chen ..... Chemistry  
 Dissertation: "Development of Phage Display Techniques with Genetic Code Expansion for Peptide Drug Discovery"  
 Chair: Wenshe Liu
- Chia-Chuan Cho ..... Chemistry  
 Dissertation: "P188G Mutation Enhances Pyrrolysyl-tRNA Synthetase Activity and Stabilizes Full-Length Protein and Discovering Drugs Against SARS-CoV-2 M<sup>PRO</sup> and PL<sup>PRO</sup>"  
 Chair: Wenshe Liu
- Kristen M. Consalvo ..... Microbiology  
 Dissertation: "Elucidation of Eukaryotic Chemorepulsion Signal Transduction Pathways Identify Sex-Based Differences in Human Neutrophils"  
 Chair: Richard H. Gomer
- Nicholas Isaac Cool ..... Chemistry  
 Dissertation: "Dynamical Lattice Transformations in Metal Oxides for Applications in Thermochemical Fenestration, Desalination, and Regolith Matrix Transformation"  
 Chair: Sarbajit Banerjee
- Maddox Rhys Dotson ..... History  
 Dissertation: "Texas Pride: The Formation of Dallas' Gay Community, 1966-2003"  
 Chair: Albert Broussard
- Alexander Louis Estrada ..... Chemistry  
 Dissertation: "New Rhodium and Rhenium Coordination Chemistry: From Molecular Gyroscopes to Chiral Lewis Acids"  
 Chair: John Gladysz  
 Co-Chair: Janet Bluemel

- Andrew M. Evans ..... Geography  
 Dissertation: "Climate and the Boreal Forest: Investigating Climatic Drivers and Effects of Climate Change at Multiple Scales"  
 Chair: Charles W. Lafon
- Nafiseh Faghihi Renani ..... Psychology  
 Dissertation: "Social Influences on Implicit Causality and Consequentiality Judgements"  
 Chair: Jyotsna Vaid
- Kenton R. Fisher ..... Geology  
 Dissertation: "The Role of Microbial Mats within Wet Aeolian Systems in Barrier Island Geomorphology"  
 Chair: Ryan C. Ewing
- Robin L. Galloso ..... Anthropology  
 Dissertation: "Brazos Santiago's Legacy: Implications of CRM on a Texas Maritime Landscape"  
 Chair: Donny Hamilton
- Xiao Ge ..... Oceanography  
 Dissertation: "Investigating Loop Current Deep Dynamics and Separation Events from a Coupled Ocean-Atmosphere Regional Model and In-situ Observations"  
 Chair: Steven Dimarco
- Felix George, Jr. .... Industrial/Organizational Psychology  
 Dissertation: "Identifying Profiles of Moral Personality That Are Maximally Associated with Pro-Organizational Unethical Behavior, Counterproductive Work Behavior, and Organizational Citizenship Behavior"  
 Chair: Winfred Arthur
- Shannon M. Gonzenbach ..... English  
 Dissertation: "The Rise of the Red Dragon: The Evolution of King Arthur as a Symbol of English Nationalism"  
 Chair: Jennifer Wollock
- Zhiying Hai ..... Mathematics  
 Dissertation: "Linear Instability of Interfacial Hele-Shaw Flows of Viscoelastic Fluids"  
 Chair: Prabir Daripa
- Joseph Viau Handy ..... Chemistry  
 Dissertation: "Interstitial Chemistry Of s-, p-, And d-Block Cations in Polymorphs Of V<sub>2</sub>O<sub>5</sub>: An Atomistic And Electronic Structure Perspective"  
 Chair: Sarbajit Banerjee
- Mingze Huang ..... Economics  
 Dissertation: "Estimation of Latent Correlations between Mixed Types of Measurements with Applications in Social-Economic Research"  
 Chair: Tatevik Sekhposyan  
 Co-Chair: Irina Gaynanova
- Yibin Huang ..... Geology  
 Dissertation: "Groundwater Quality Deterioration Driven By Urban Pumping in Mexico and Bangladesh"  
 Chair: Peter S. Knappett

- Eileen Lanette Huey . . . . . Sociology  
 Dissertation: "Pleading Guilty until Proven Innocent: How Our Justice System Contributes to Wrongful Convictions"  
 Chair: Holly Foster
- Trevor Bryan Jackson, Jr. . . . . Psychology  
 Dissertation: "Contributions of Cerebellar-Basal Ganglia Networks in Cortical Processing and Psychiatric Symptomology in Healthy, Community, and Clinical Samples"  
 Chair: Jessica Bernard
- Yi Li . . . . . Atmospheric Sciences  
 Dissertation: "Shear Stress Conditions on Complex Terrain Surfaces: Basic Physics and Implementation"  
 Chair: Craig Epifanio
- Andrea Martinez Aguirre . . . . . Biology  
 Dissertation: "Factors that Affect *Clostridioides difficile* Infections Using *In Vivo* and *In Vitro* Approaches"  
 Chair: Joseph A. Sorg
- Zachary Michael Martinez . . . . . Chemistry  
 Dissertation: "Thiolate Bridges in the Design of Nickel, Iron, and Palladium Complexes for Catalysis, Magnetic Interactions, and Polymer Supported Dimanganese Complexes"  
 Chair: Marcetta Darensbourg
- Qingjun Meng . . . . . Geophysics  
 Dissertation: "Exploring Physical Controls on Subduction-Zone Slip Processes and Inverting Seismic Data for Dynamic Stress Changes"  
 Chair: Benchun Duan
- Sara Ann Milligan . . . . . Biology  
 Dissertation: "Elucidating Eukaryotic Chemorepulsion"  
 Chair: Richard H. Gomer
- Anthony Uei Mu . . . . . Chemistry  
 Dissertation: "Controlling the Conformation of  $\Pi$ -Conjugated Organic Molecules Using Hydrogen Bond Interactions"  
 Chair: Lei Fang
- Samuel Harrison Neely . . . . . Geology  
 Dissertation: "Taphonomic Processes Affecting Peat Accumulation in Mangroves, Barnes Sound, Florida, United States"  
 Chair: Anne Raymond
- Jared Scott Oliphint . . . . . Philosophy  
 Dissertation: "Employing Resources From Social Ontology, Conceptual Engineering, And Conceptual Ethics to Assess the Social, Agent-Dependent Features of Objects"  
 Chair: Christopher Menzel  
 Co-Chair: Jose Bermudez Ospina

- Anthony R. Ramirez . . . . . Communication  
 Dissertation: "Historias de la Frontera: Using Critical Latinx Border Cultural Studies Theory to Explore the Latinx Identity of the U.S.-Mexico Border in Comic Books"  
 Chair: Antonio La-Pastina  
 Co-Chair: Srividya Ramasubramanian
- Robert Patrick Reed . . . . . Philosophy  
 Dissertation: "Anscombe, Obligation and Moral Motivation"  
 Chair: Linda Radzik
- Timothy Regan . . . . . Clinical Psychology  
 Dissertation: "Examining the Viability of Video Game Interventions for Heavy Alcohol Drinkers"  
 Chair: Sherecce Fields
- Landon Jack Denson Sadler . . . . . English  
 Dissertation: "Time Will Tell: Dystopian Cultural Production and Queer Ethics of Care"  
 Chair: Vanita Reddy
- Rachael Suzanne Shudde . . . . . Statistics  
 Dissertation: "Non-Local Priors for Bayesian Linear Regression Hypothesis Testing"  
 Chair: Valen Johnson
- Terrence Pradakshana Sylvester . . . . . Biology  
 Dissertation: "Broad-Scale Structural Evolution in Invertebrate Genomes and the Population Genomics of Jewel Scarabs in the Southwestern US"  
 Chair: Heath L. Blackmon
- Amy Louise Tan . . . . . Biology  
 Dissertation: "Coordination of FGF, WNT, and HH for Sensory and Neural Patterning During Zebrafish Inner Ear Development"  
 Chair: Bruce Riley
- David V. Tran . . . . . Chemistry  
 Dissertation: "Constructing Degradable Polymer Materials Through Chemical Transformations of Cyclic Ethers Derived From Natural Products With C1 Feedstocks"  
 Chair: Karen Wooley
- Michael Joseph Upchurch . . . . . Sociology  
 Dissertation: "Historical Residential Segregation in the Los Angeles Metropolitan Area: An Exploration of Location Attainment in 1940 L.A."  
 Chair: Mark Fossett
- Mariela Vazquez . . . . . Chemistry  
 Dissertation: "Core-shell Inverse Amphiphilic Molecular Terpolymer Bottlebrushes Towards Lubrication and Microelectronic Applications"  
 Chair: Karen Wooley

- Shubham Dilip Verma . . . . . Physics  
 Dissertation: "Fabrication of CDMS Dark Matter Detector Using Bi-layer Lift-off Technique and Detection of Axions/axion Like Particles (Alps) Using CsI(Tl) Scintillator Detectors"  
 Chair: Rupak K. Mahapatra  
 Co-Chair: Bhaskar Dutta
- Thomas Edward Walker III . . . . . Chemistry  
 Dissertation: "Fundamentals that Underpin Native Mass Spectrometry: A Study of Thermodynamics, Osmolytes, and Electrospray Ionization"  
 Chair: David H. Russell
- Andrew Edward Whitley . . . . . Oceanography  
 Dissertation: "Coastline Evolution Modeling: Implications of Mega-Nourishments and Groin Fields"  
 Chair: Timothy Dellapenna  
 Co-Chair: Jens Figlus
- Wenrui Zhong . . . . . Chemistry  
 Dissertation: "Mirror Image Nucleic Acid Probes for Microrna Detection and Live Cell Imaging"  
 Chair: Jonathan T. Szczepanski

*Bush School of Government and Public Service*

*Doctor of Philosophy*

- Kyung Suk Lee . . . . . Political Science  
 Dissertation: "Political Elites, Mass Publics, and Nuclear Proliferation"  
 Chair: Matthew C. Fuhrmann
- Yohan Park . . . . . Political Science  
 Dissertation: "Domestic Audiences and Public Signals in Militarized Crises"  
 Chair: Matthew C. Fuhrmann

*School of Dentistry*

*Doctor of Philosophy*

- Faisal Alnashmy N Alshalawy . . . . . Oral and Craniofacial Biomedical Sciences  
 Dissertation: "Osterix - Positive Cell-Intrinsic IRE1 $\alpha$ /XBP1 Signaling Regulates the Postnatal Bone Development and Bone Marrow Homeostasis"  
 Chair: Hongjiao Ouyang
- Bikash Lamichhane . . . . . Oral and Craniofacial Biomedical Sciences  
 Dissertation: "The Role of Din in Murine Bone and Tooth Development"  
 Chair: Xiaofang Wang

School of Education and Human Development

Doctor of Education

Chelsea Pope Collins . . . . . Educational Administration  
Record of Study: "Understanding Why Faculty of Color Choose to Teach  
at Independent Schools"  
Chair: Jean Madsen

Jacklyn C. Davenport . . . . . Curriculum and Instruction  
Record of Study: "Self-Regulated Strategy Development Writing Approach:  
A Single Fifth Grade Classroom"  
Chair: Sharon D. Matthews  
Co-Chair: Debra McKeown

Laura Marie Gallardo . . . . . Curriculum and Instruction  
Record of Study: "Understanding the Needs of Beginning Career Technical  
Education Teachers as They Transition to the Classroom"  
Chair: Michelle M. Kwok  
Co-Chair: Karen E. Rambo

Raynaldo D. Gallardo . . . . . Curriculum and Instruction  
Record of Study: "Human Connections: Adapting an Ethic of Care for  
Fostering the Growth of Student Teacher Relationships"  
Chair: Mary Capraro  
Co-Chair: Robert Capraro

Patrick W. Kelly . . . . . Curriculum and Instruction  
Record of Study: "Before Students Hurt: Curriculum Supports for Social,  
Emotional, and Mental Development in Public Schools"  
Chair: Michelle M. Kwok

Cassandra Rios Bailey . . . . . Curriculum and Instruction  
Record of Study: "Key Instructional Strategies and Behaviors to Support  
Student Motivation and Learning in the High School  
STARR English Remedial Classroom"  
Chair: Sharon D. Matthews  
Co-Chair: Radhika Viruru

Julia Ana Schneider . . . . . Curriculum and Instruction  
Record of Study: "Your Zip Code Is Not Your Destiny: High Performing  
Title I Elementary Schools in South Texas"  
Chair: Robin A. Rackley  
Co-Chair: Paul R. Hernandez

Ruthie Lynn Walker . . . . . Curriculum and Instruction  
Record of Study: "Using a Mixed-Methods Needs Analysis of a Com-  
munity of Stakeholders to Identify Perceptions of School  
Readiness"  
Chair: Shaun D. Hutchins  
Co-Chair: Michelle M. Kwok

Doctor of Philosophy

Matthew Bekins Bird . . . . . Kinesiology  
Dissertation: "Markerless Motion Capture and Force Plates Utilizing  
Machine Learning and Its Utility to Identify Musculo-  
skeletal Injuries in Marine Officer Candidates"  
Chair: James Fluckey



- Brianne Marie Breidenbach . . . . . Kinesiology  
 Dissertation: "The Influence of Calcium Propionate on Regulating Physical Activity"  
 Chair: John T. Lightfoot
- Sabarish Chandrasekaran . . . . . Educational Human Resource Development  
 Dissertation: "Factors Influencing Learning Behavior Among Indian Technology Workers on H-1B Visas: Motivations and Barriers"  
 Chair: Michael M. Beyerlein
- Yun-Ling Chang . . . . . Counseling Psychology  
 Dissertation: "The Perception and Experience of Sexual Harassment Among Female Chinese International Students and Their Relationship with Cultural Factors and Depression"  
 Chair: Linda Castillo
- Kimberly Ann Currens . . . . . Curriculum and Instruction  
 Dissertation: "Reading Mathematics—Eleven English Teachers Plus One Mathematics Teacher, the Scoping Review, and a New Survey: A Sequential Mixed Method, Three-Article Dissertation"  
 Chair: Cheryl J. Craig  
 Co-Chair: Dianne Goldsby
- Heather Marie Dulas . . . . . Educational Psychology  
 Dissertation: "Examining the Effectiveness and Quality of Employment-Related Social Skills Interventions for Individuals with Disabilities: A Quality Review, Meta-Analysis and Survey Investigation"  
 Chair: Lisa Perrott  
 Co-Chair: Carly B. Gilson
- Yessenia Gamez . . . . . Educational Psychology  
 Dissertation: "Exploring the Influence of Virtual Mentoring and Coaching on In-Service Teachers"  
 Chair: Fuhui Tong  
 Co-Chair: Rafael Lara-Alecio
- Chenxuan He . . . . . Educational Psychology  
 Dissertation: "Understanding the Role of Radicals in Chinese Character Acquisition for Non-Native Chinese Learners"  
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- Megan Lee Higginbotham . . . . . Educational Administration  
 Dissertation: "Religious Coping in Female Undergraduate Sexual Assault Survivors"  
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- Juliet Mariam Nyanamba . . . . . Educational Psychology  
 Dissertation: "Impact of Autonomy-Supportive Scientific Communities on Minority Students' Well-Being"  
 Chair: Jeffrey Liew  
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- Carlos Sepulveda, Jr. . . . . Educational Human Resource Development  
 Dissertation: "The National Football League's Star Peformers: An  
 Exploration of National Football League Veterans, Team  
 Captains, and Pro Bowl Players' Emotional Competence"  
 Chair: Larry M. Dooley
- Song Yi Shin . . . . . Kinesiology  
 Dissertation: "Effect of Aging on Vascular Smooth Muscle Contractility  
 in Skeletal Muscle Resistance Arteries"  
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 Co-Chair: Andreea Trache
- Brian Anthony Young . . . . . Educational Administration  
 Dissertation: "A Culturally Meaningful Imperative: How An African  
 American Male Culturally Responsive Instructional  
 Leader Allowed Spirituality to Have The Last Word"  
 Chair: Gwendolyn Webb-Johnson

*College of Engineering*

*Doctor of Philosophy*

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 Dissertation: "Understanding The Corrosion Response of Biodegradable  
 Magnesium Alloys Through Microstructure Design"  
 Chair: Bilal Mansoor  
 Co-Chair: Arun R. Srinivasa
- Javed Ali . . . . . Electrical Engineering  
 Dissertation: "Phosphor in Glass Composite Fabrication on Glass  
 Substrate using Pulsed Co2 Laser Sintering for White  
 Light Applications"  
 Chair: Christi Madsen
- Muhammad Ali . . . . . Civil Engineering  
 Dissertation: "Impact of Coupled Gas Migration Phenomena on  
 Barriers for Highly Pollutant Wastes"  
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- Randy Ardywibowo . . . . . Electrical Engineering  
 Dissertation: "Learning under Data Irregularity and Uncertainty"  
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 Dissertation: "Categorizing Travelers Based on Travel Decisions:  
 Impact on Freeways with Managed Lanes"  
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- Shyam Sundar Balasubramanian . . . . . Mechanical Engineering  
 Dissertation: "Novel Fatigue Testing of Laser Powder Bed Fused  
 Inconel 718"  
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 Co-Chair: Li-Jung Tai

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 Dissertation: "Advanced Plasma Nitriding of Reactor Cladding Materials"  
 Chair: Lin Shao  
 Co-Chair: Sean McDeavitt
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 Dissertation: "Computational Studies of the Patterning Systems in Early *Drosophila* Embryos"  
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- Sayali Milind Belsare . . . . . Biomedical Engineering  
 Dissertation: "Colorimetric Sensing System for Monitoring Gestational Diabetes at the Point-of-Care"  
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 Dissertation: "Design, Development, Scale-up, and Experimental Investigations of an Oil Treatment Reactor Using Non-Thermal Nanosecond Pulsed Plasma"  
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 Dissertation: "A Sociotechnical Framework for Telehealth Integration into Clinical Workflow"  
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 Dissertation: "Graph Neural Network-Based Cybersecurity of Smart Grids"  
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 Co-Chair: Katherin M. Davis
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 Dissertation: "Experimental Investigation of the Interfacial Thermal Resistance in Uranium Dioxide and Beryllium Oxide Composites by the Flash Method"  
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 Dissertation: "Curvature-Driven Favorable Pressure Gradient Effects on Shock Boundary Layer Interactions"  
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 Dissertation: "Towards Unbiased Estimation and Probabilistic Forecasting of Flash Flood Human and Economic Impacts"  
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 Dissertation: "An Investigation of Ecologically-Inspired Architecting Principles for Resilient System of Systems Design"  
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 Dissertation: "Multi-Network Hydrogels for Synthetic Cartilage Replacements"  
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 Dissertation: "Feasibility, Safety, and Sustainability Analysis of Metal-Organic Framework (MOF) Synthesis and Industrial Production"  
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 Dissertation: "Leveraging Big Data and Network Analysis for Assessment of Flood Resilience in Urban Infrastructure"  
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 Dissertation: "Tunable Bandgaps in Locally Resonant Shape Memory Alloy Metastructures"  
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 Co-Chair: Sami El Borgi
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 Dissertation: "Studying the Correlation Between Swelling, Radiation Damage Rate, and Temperature in Nuclear Reactor Materials Using Ion Irradiations"  
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- Guillermo Gabriel Garayar Leyva . . . . . Electrical Engineering  
 Dissertation: "Square-Wave-Based Systems: Theory, Application and Implementation"  
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 Dissertation: "Quantitative and Qualitative Evaluation of Shape Memory Polymer Polyurethane Foam Biodegradation"  
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- Rachit Gupta . . . . . Chemical Engineering  
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 Dissertation: "Microscale Insight into the Deformation and Fracture of Post-Processed Additively Manufactured Ti-6Al-4V"  
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 Dissertation: "Development of a Finite Element Analysis (FEA) Framework for Predicting Performance of an EVA Space Suit Lower Arm Assembly"  
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 Dissertation: "Injectable Hydrogels for Therapeutic Delivery and 3D Printing"  
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 Dissertation: "Corrosion of Rebars in Simulated Concrete Pore Solutions with the Presence of Chloride Ions"  
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 Dissertation: "Lyapunov Function Consistent Adaptive Network  
 Signal Control with Back Pressure and Reinforcement  
 Learning"  
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 Dissertation: "Machine Learning with Heterogeneous and Cross-  
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 plex Fracture Geometries for Unconventional Reservoir  
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 Dissertation: "Supporting Self-Management of Health Care Through  
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 Dissertation: "Amphiphilic Additives for Modification of Biomedical  
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 Separated from a Low-Burnup Low-Enriched Uranium  
 for Nuclear Forensics"  
 Chair: Sunil S. Chirayath



- Tanmay Mathur . . . . . Biomedical Engineering  
 Dissertation: "Models of Single Blood Vessels and Vascular Networks in Health and Disease: From Blood-Derived Patient-Specific Organ-On-Chips to Computational Transport Phenomena"  
 Chair: Abhishek Jain
- Luke Andrew McHale . . . . . Computer Engineering  
 Dissertation: "Flow Table Management in Programmable Network Data Planes"  
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 Dissertation: "Novel Architectures and Training Algorithms for Deep Neural Networks"  
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 Dissertation: "Understanding Security Inconsistencies of Mobile and Web Integration"  
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 Dissertation: "Experimental Investigations of Fuel Assemblies for Fast Reactor Applications"  
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 Dissertation: "On Selected Topics in Space Domain Awareness"  
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 Dissertation: "Reliability Constrained Optimal Sizing of Renewable Energy Resources and Capacity Credit Evaluation"  
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 Dissertation: "Novel Design Integration for Advanced Nuclear Heat-Pipe Systems"  
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 Dissertation: "Learning Based Controllers for Off-Road Trajectory Tracking of Unmanned Ground Vehicles"  
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 Dissertation: "Natural Gas to Hydrogen via a Process Intensified Plasma-Based Reformer"  
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- Ju Hyun Oh . . . . . Chemical Engineering  
 Dissertation: "Site-Specific Radio Frequency Heating of Nanomaterials and Conductive Polymers"  
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- Zhihong Pang . . . . . Mechanical Engineering  
 Dissertation: "Development, Quantification, and Demonstration of the Occupancy-Based Controls for Smart and Healthy Buildings"  
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 Dissertation: "A Probabilistic Modeling Framework for Integration of Distributed Energy Resources"  
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 Dissertation: "Cell and Tissue Adaptation to Mechanical Alterations"  
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 Dissertation: "An Investigation of Stochastic and Process-Based Models Describing the Influence of Vegetation and Storms on Barrier Island Dynamics"  
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 Co-Chair: Orencio Duran Vinent
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 Dissertation: "On Barrier Islands: Drivers and Controls"  
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 Dissertation: "Computationally Efficient Low-Rank Algorithms for Gaussian Process Regression"  
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 Dissertation: "Data Driven Interatomic Potential Development"  
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 Co-Chair: Raymundo Arroyave
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 Dissertation: "Mechanical & Electrochemical Characterization of Newly Designed High-entropy Alloy System Al<sub>2</sub>Cr<sub>5</sub>Cu<sub>5</sub>Fe<sub>53</sub>Ni<sub>35</sub> in Marine Environment"  
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- Shih-Hung Yang . . . . . Civil Engineering  
 Dissertation: "Elucidating Factors Affecting Biodegradation and Uptake of 6:2 Fluorotelomer Sulfonate (6:2 FTSA) in Phyto/Rhizoremediation"  
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 Dissertation: "Flexible Sensors for Biodynamic Studies: Enabling the In-Lab to On-Site Translation"  
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 Dissertation: "Study of Defect-Enhanced Charge Multiplication in an Irradiated Avalanche Photodiode"  
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 Dissertation: "On the Fabrication of Shape Memory Alloys by Laser Powder Bed Fusion"  
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Tyler Nicole Fields .....	Medicine
Yongchang Jang .....	Medicine
Caleb Peter Shin .....	Medicine
Jeyvikram Thirumavalavan .....	Medicine

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Dissertation: "Brucella and Coronaviridae Subversion of Novel Blos1-  
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Dissertation: "Explorations in Parkinson's disease: a Systematic Exami-  
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Treatments"  
Chair: Rahul Srinivasan

*School of Public Health*

*Doctor of Philosophy*

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Dissertation: "Aging in Place in the United States: Exploring the  
Current and Future Landscape of Informal Caregiving"  
Chair: Robert L. Ohsfeldt
- Fahad Ibrahim E Bin Radhyan . . . . . Health Education  
Dissertation: "Incorporating Professional Responsibilities into Health  
Education Programs and Understanding Professional  
Needed Skills and Training from Employers' Perspec-  
tives"  
Chair: Kelly L. Wilson  
Co-Chair: Elisa H. McNeill
- Aditi Tomar . . . . . Health Education  
Dissertation: "Examining the Influence of Patient-Centered Communi-  
cation in Promoting HPV Vaccine Acceptability Among  
U.S. Adults"  
Chair: Idethia S. Harvey

*Doctor of Public Health*

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Dissertation: "Understanding and Alleviating Musculoskeletal Disor-  
ders in Remote Office Workers: A Follow-Up Study and  
Intervention"  
Chair: Mark E. Benden
- Michael Louis Lopez . . . . . Public Health Sciences  
Dissertation: "Community Setting Use for Physical Activity in Texas  
Rural Adults"  
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 Dissertation: "Seasonal Influenza (Flu) Vaccine Uptake Among United States (U.S.) Adults"  
 Chair: James Burdine  
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*School of Veterinary Medicine and Biomedical Sciences*

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 Dissertation: "Identification of *E. coli* Core and Uropathogen-Specific Genes Involved in Adaptation to Copper Stress"  
 Chair: Sargurunathan Subashchandrabose

Matthew John Jevit ..... Genetics and Genomics  
 Dissertation: "Dissecting the Most Complex Regions of the Mammalian Genome; the Sex Chromosomes"  
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Kalen Alane Johnson ..... Biomedical Sciences  
 Dissertation: "Coronary Microvessel Vasodilation Downstream of H<sub>2</sub>O<sub>2</sub>: Effects of Ischemia, Exercise Training, and Sex"  
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Ross Alan Shore ..... Toxicology  
 Dissertation: "Lactational Transfer of Sulforaphane to Activate Nrf2 in Neonatal Mice"  
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Alan Cristobal Valdiviezo ..... Toxicology  
 Dissertation: "Exposure Science Solutions for New Approach Methods in Regulatory Toxicology"  
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Elise Voltura ..... Biomedical Sciences  
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Steven Wesley Wall ..... Biomedical Sciences  
 Dissertation: "Non-Canonical Role of Singleminded 2 In Energy Metabolism"  
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Garhett Loftin Wyatt ..... Biomedical Sciences  
 Dissertation: "Investigating Singleminded 2s in Regulation of Breast Cancer Progression and Therapeutic Resistance"  
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 Saurav Dev  
 Manideep Reddy Dondeti  
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Xu Shi

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*Industrial Distribution*

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Varun Rajanikant Panchal  
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 Soham Ajit Patil  
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*Ocean Engineering*

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Phuc Huynh  
Kenyari Keith  
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Michael Lee Merritt

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Angel R. Perez  
Kathleen Smith  
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*Medical Sciences*

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*Forensic Nursing*

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*Performance Studies*

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Hannah Noel Hartley

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*Master of Science*

*Health Education*

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*Health Policy and Management*

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Alisha George  
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Reagan Nicole Heun

Faraz Karim Jivraj  
Jaccard Malik Nelson  
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*School of Veterinary Medicine and Biomedical Sciences*

Presented by Dr. Michael F. Criscitiello, Associate Dean

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*Master of Science*

*Biomedical Sciences*

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Hailee M. Conley  
Andrew Wyatt Ezzell  
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Paul David McMurrey  
Maegan Lynn Mendoza  
Chioma M. Mordi  
Tony V. Phan  
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Madison Michaela Williamson

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Daniel Vincent Obregon

*Department of Veterinary Large Animal Clinical Sciences*

*Master of Science*

*Biomedical Sciences*

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*Department of Veterinary Pathobiology*

*Master of Science*

*Biomedical Sciences*

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Anthony J. Garibay

Charlotte Nicole Stanley  
Jennise Amaris Williams

*Genetics*

Livia Alexandra Schuller

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*Biomedical Sciences*

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Avery H. Morland

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*Department of Veterinary Small Animal Clinical Sciences*

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*Biomedical Sciences*

Chanel Nicole Berns  
Kaitlynn Elizabeth Blankenship  
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Nicole Enid Mendez-Maio  
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## *Academic Regalia*

Academic institutions throughout the world have created a wide variety of customs including distinctive dress, color and ceremony to indicate the accomplishments of scholars. English traditions originating at Oxford and Cambridge led to the development of American academic regalia. By the twentieth century, institutions of higher learning in the United States had adopted a well-defined code of academic costume, which now includes the identification of the different academic degrees by distinctive gowns, hoods and colors. For instance, the baccalaureate gown is worn closed and is identified by long, pleated front panels and long, pointed sleeves. The master's gown has very long sleeves, closed at the bottom, and the arms of the wearer are placed through an opening in the front of the sleeves. Doctoral gowns are distinguished by velvet panels around the neck and down the front of the gown. Three horizontal black velvet bars also mark the doctorate. In America, the hood is the most colorful feature of academic regalia. The bachelor's hood, when worn, is comparatively short; the master's, a bit longer; and the doctor's, at four feet, reaches far down the wearer's back. The outside of the hood is black and is bordered with a two-, three- or five-inch band of velvet in the color representing the degree received, and the hood is lined with the colors of the granting institution. For instance, the Master of Arts hood from Texas A&M has a white border, for the discipline color of Arts, Letters and Humanities, with a maroon and white lining; the Master of Science hood has a golden yellow border, for Science, with a maroon and white lining; and the Doctor of Philosophy hood has a border in the blue of Philosophy with a maroon and white lining. Among the other discipline colors are Agriculture—maize, Architecture—violet, Business—olive green, Education—light blue, Engineering—orange and Veterinary Medicine—gray. These colors represent the degree earned, not the academic major. The Ph.D. in Engineering, for example, would normally wear the dark blue of Philosophy on the hood and gown instead of the orange of Engineering. Official guests of the University and members of the Board of Regents wear the doctor's gown with the blue of Philosophy on the front and hood.

## *Ceremonial Mace*

The University mace, a gift of the Class of 1990, leads the academic procession at commencement and on other special ceremonial occasions. Historically, the use of a mace dates back to the Middle Ages and was carried before or placed near a magistrate or other dignitary as an ensign of authority. This mace is made of sterling silver, walnut and oak and depicts various University symbols. It was designed by Rodney Hill, Texas A&M architecture professor who also carved the staff. Silversmith Lane Coulter '78, of Santa Fe, prepared the silver head of the mace and Lars Stanley '74, of Austin, designed and manufactured the stand.

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## *Gonfalons*

The gonfalon, a flag that hangs from a crosspiece or frame, originated in the medieval republics of Italy as an ensign of state or office. Gonfalons have been adopted in many universities around the world as college or institutional insignias. The gonfalons displayed represent the colleges of Texas A&M University. The colors of the University, maroon and white, are joined together in a pattern common to all of the flags. The top portion is the designated color for each unit. The white field serves as a background for the symbol of each.

**College of Agriculture and Life Sciences.** On a ground of white appears an emerging sun of yellow and russet rays. Yellow, the discipline color of science, russet, the discipline color of natural resources, and the center orange, color of engineering, combine to illustrate the intellectual interest in human and biological systems and structures. The interweaving ring encompasses the dawn making a full circle of life.

**School of Architecture.** The School of Architecture is comprised of three departments, all dedicated to the advancement of the built environment: Architecture, Construction Science, and Landscape Architecture and Urban Planning. The central triangle, a key shape in the field of architecture, symbolizes power, resilience, and direction, which is tilted to reveal its dimensionality, a non-planar object manipulated by the designer in exploration of unique perspectives. The rectilinear towers that encompass the triangular shape represent the monumental constructions throughout the history of architecture. These structures are all places upon the foundation, which symbolizes the beginning of architectural education and knowledge. The three ribbons represent the builder's creativity (yellow), reliability (blue), and dedication (red), the essential values instilled within each student in the School of Architecture, leading towards a better world through the scope of knowledge and exploration.

**College of Arts and Sciences.** The symbol shows the connectivity of the distinct areas of knowledge in the College of Arts and Sciences. The components around the hexagonal ring are the domains of sciences, humanities, and social sciences. The design of the ring illustrates how these interlocking domains of learning and scholarship are united in the College of Arts and Sciences.

**Mays Business School.** The golden knot symbolizes unity and coordination of the disciplines of business administration. Surrounding the golden knot, a field of purple represents the rank of authority. The foundation of lozenges under the triangle illustrates the flow of order.

**School of Dentistry.** The color lilac has been associated with dentistry since the 1800s, symbolizing compassion and inspiration. Upon it, rests the Greek Omicron, O, representing the first letter in “odont,” meaning tooth, along with an interlaced Delta representing the letter D for Dentistry. The inner-most component of the emblem depicts healing, as signified with a serpent intertwined around the ancient cauterizing rod of the Greek god of healing, Ascepius. Included in the emblem, are 32 leaves and 20 berries representing both the primary and secondary teeth.

**School of Education and Human Development.** The flourishing flame blazoned with gold, light blue and royal purple signifies the burning zeal of the three missions of education--teaching, research and service. The hands hold the spiritual, social and intellectual flame of education.

**College of Engineering.** As the triangles collaborate alongside each other, projecting a diamond shape, they depict the strong relationship between the diverse engineering disciplines. The use of mathematics, science and technology provide the foundation of solving today’s challenging ideas between and within each engineering department. The center illustrates a circuit board to express the continuing growth in technology and engineering today, resulting in new industries and opportunities. The cohesive elements of this design work together as a whole symbolizing communication, interaction, teamwork, and balance in Engineering as the green, blue and navy color palette represents energy, loyalty, wisdom, professionalism and ambition.

**Bush School of Government and Public Service.** The star symbolizes pride and heritage in our great state of Texas. The two lines on either side of the star represent our connection with the past, and with the future, in an effort to build on experiences from history, while contributing and presenting new opportunities to future generations.

**School of Law.** A widely accepted symbol of peace, the olive leaves highlight one of the most critical contributions of law and legal order to human development. Curving inwards, they also bring to mind the Aggie Ring – and the circle of fellowship and community it represents. Lady Justice symbolizes the values our graduates bring to bear in their careers: a spirit of objectivity (blindfold), an unwavering commitment to fairness (scales), and the strength necessary to pursue it (sword). The six stars, finally, represent Texas A&M’s Core Values – Leadership, Respect, Loyalty, Excellence, Selfless Service, and Integrity – essential requirements of not only members of the legal profession, but all those who study the law and seek to advance justice, fairness, and the Rule of Law.

**School of Medicine.** The white field provides a background for the Aesculapian staff and serpent, long used as the symbol of the healing arts. The green color is the same displayed on the hoods and robes worn for the degree of Doctor of Medicine.

**School of Nursing.** The stars on the College of Nursing gonfalon represent caring, innovation and empowerment, while the cross symbolizes the origins of nursing. The candle honors the founder of nursing, Florence Nightingale. Apricot is the color of nursing.

**School of Performance, Visualization and Fine Arts.** The center of the design is a Penrose triangle, which is a continuous triangle, and an impossible 3D shape. The triangle combines math and creativity through the optical illusion it creates. The extensions of the triangle symbolize growth in all directions, while the overall triangular form communicates unity and continuity.

**Irma Lerma Rangel School of Pharmacy.** The mortar and pestle on the College of Pharmacy gonfalon symbolize the tools of traditional pharmacy. The Rx is from the Latin, "Take thou."

**School of Public Health.** The anchor and caduceus are adapted from the national Public Health Service, which evolved from the Marine Hospital Service to the Public Health and Marine Hospital Service, and finally became the U.S. Public Health Service. The star represents the linkage of the School of Public Health with the Texas A&M Health Science Center and the State of Texas. The salmon color is the color of the public health hoods.

**School of Veterinary Medicine and Biomedical Sciences.** Resting upon a ground of purity, a white snake stands for the science and the art of prevention, cure or alleviation of disease and injury to animals. It is found entwined around a herald's green staff--the symbol of service. The golden radiant triangle atop the Aesculapius illustrates the breadth of veterinary medical science.



*“The Spirit of Aggieland”*

By Mimms-Dunn

Some may boast of prowess’ bold,  
Of the school they think so grand,  
But there’s a spirit can ne’er be told,  
It’s the spirit of Aggieland.

Chorus

We are the Aggies—the Aggies are we,  
True to each other as Aggies can be.  
We’ve got to fight, boys,  
We’ve got to fight!  
We’ve got to fight for Maroon and White.  
After they’ve boosted all the rest,  
They will come and join the best,  
For we are the Aggies—the Aggies so true,  
We’re from Texas A M U.



## CONGRATULATIONS NEW GRADUATES!

### WELCOME TO THE ASSOCIATION OF FORMER STUDENTS!

Today, as a proud graduate of Texas A&M University, you will turn your Aggie Ring so that the Class year faces away from the body symbolizing a readiness to face the world.

Being an Aggie is a lifelong experience that is supported by the Aggie Network. By staying involved with Texas A&M through The Association of Former Students, together, we will continue the work of passing back the core values, traditions and experiences that make Texas A&M unique.

As you begin your new journey, we ask that when you're ready, you consider helping to pass it back to future generations. Join the Century Club at a 50% discount and proudly showcase your very own Century Club member decal.



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OF FORMER STUDENTS®

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*This program is accurate with respect to the degree awarded and conferred based on available information at the time of print production. Neither a name listed herein nor participation in the ceremony guarantees the awarding of a degree. The Office of the Registrar retains each student's permanent academic record, which indicates these official designations.*

*This program is available for download on the graduation website at <https://graduation.tamu.edu/Home/Ceremonial-Symbols-History/Program-Archives>.*