



TEXAS A&M UNIVERSITY
Commencement

August 6, 2022, 10 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

Doctoral Commencement and Hooding Ceremony

Saturday, August 6, 2022, 10 a.m.
Bethancourt Grand Ballroom

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

Recessional

Faculty Marshals

Mace Bearer

Dr. Heather C. Lench, Senior Associate Vice President for
Faculty Affairs

Stage Party

Dr. Adam R. Seipp, Associate Dean

Announcer

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 and Executive Vice President (interim) Dr. Timothy P. Scott
- Dean, College of Agriculture and
Life Sciences Dr. Jeffrey W. Savell
- Dean, College of Architecture (acting) Dr. Patrick C. Suermann
- Dean, Mays Business School (interim) Dr. R. Duane Ireland
- Dean, College of Dentistry (acting) Dr. Andreas A. Polycarpou
- Dean, College of Education and
Human Development Dr. Michael A. de Miranda
- Dean, College of Engineering (interim) Dr. John E. Hurtado
- Dean, College of Geosciences Dr. Debbie Thomas
- 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, College of Liberal Arts (interim) Dr. Steven M. Oberhelman
Dean, College of Medicine Dr. Amy L. Waer
Dean, College of Nursing Dr. Nancy L. Fahrenwald
Dean, Irma Lerma Rangel College of Pharmacy Dr. Indra K. Reddy
Dean, School of Public Health Dr. Shawn G. Gibbs
Dean, College of Science Dr. Valen E. Johnson
Dean, College 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 Dr. Karen L. Butler-Purry
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 Marketing and Communications Officer and
Vice President Ms. Marilyn M. Martell
Chief Information Officer and Vice President for
Information Technology Mr. Edwin L. Pierson
Chief Compliance Officer and Vice President Mr. Kevin P. McGinnis
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 for Enrollment and
Academic Services 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 Operational Innovation Dr. Alan Sams
Vice President for Research Dr. Jack G. Baldauf
Vice President for
Student Affairs Brigadier General Joe E. Ramirez, Jr. (Ret.)
Vice Provost of Undergraduate Studies (interim). Dr. Ann L. Kenimer
Associate Vice President for Academic Affairs, Texas A&M University at
Galveston, and Associate Provost (interim). Dr. Antonietta S. Quigg
University Librarian and Assistant Provost,
Texas A&M University Libraries Ms. Julie A. Mosbo Ballestro
Commandant of the
Corps of Cadets (interim) Colonel Byron F. Stebbins (Ret.)

Candidates for Doctoral Degrees

Presented by Dr. Karen L. Butler-Purry
Dean and Associate Provost

Graduate and Professional School

College of Agriculture and Life Sciences

Doctor of Philosophy

- Shirley Heidi Arbizu Berrocal ... Food Science and Technology
Dissertation: "Dark Sweet Cherry (Prunus avium) Supplementation Modulates Inflammation, Cognitive Function, and Intestinal Microbial Composition in Obese Individuals: A Single-Blind Randomized Clinical Trial"
Chair: Susanne Talcott
Co-Chair: Giuliana D. Noratto Dongo

Shishir Basant ... Ecology and Conservation Biology
Dissertation: "Changes in Ecohydrology Due to Woody Plant Encroachment in Subtropical Savannas"
Chair: Bradford Wilcox
Co-Chair: Cristine L. Morgan

Alexander Joseph Blumenfeld ... Entomology
Dissertation: "Studies on the Invasion Biology of Social Insects"
Chair: Edward L. Vargo

Gabriela Cardoso Dal Pont ... Poultry Science
Dissertation: "The Effects of Different Diets and Dietary Additives on the Intestinal Health of Broiler Chickens"
Chair: Yuhua Z. Farnell

Genevieve Meganrose D'Souza ... Animal Science
Dissertation: "Evaluation of Techniques in Ruminant Nutrition for Sustainable Production"
Chair: Luis Tedeschi

Jeffrey Paul Downey ... Recreation, Park, and Tourism Sciences
Dissertation: "Helping Festivals Thrive Through Generational Changes"
Chair: James Petrick

Nicholas Leo Drury ... Toxicology
Dissertation: "Ultrafine Particulate Matter Air Pollution Exposure Aggravates Pulmonary Responses to Influenza Infection During Pregnancy"
Chair: Susanne Talcott
Co-Chair: Natalie M. Johnson

Blake Elkins ... Entomology
Dissertation: "An Invasive Aphid Pest of Sorghum (Melanaphis sorghi) and its Natural Enemies Across Landscapes, Patches, and Host Plants"
Chair: Michael J. Brewer
Co-Chair: Micky Eubanks

- Xue Gong Biochemistry
 Dissertation: "Mechanism of Membrane Fission by Yeast Amphiphysin"
 Chair: Jean-Philippe Pellois
- Gabrielle Marie House Poultry Science
 Dissertation: "Evaluation of Light-Emitting Diode Spectral Output and Photoperiod Duration on Pekin Duck Performance, Stress, and Welfare"
 Chair: Gregory S. Archer
- Xinyue Huang Ecology and Evolutionary Biology
 Dissertation: "Estimation on Impacts of Vector Control Operations on *Culex quinquefasciatus* and *Aedes albopictus* in Harris County, Texas"
 Chair: Phillip E. Kaufman
 Co-Chair: Michel Slotman
- Tara-Kay Lencola Jones Entomology
 Dissertation: "A Collision of Maize Stressors: Drought and *Dalbulus maidis*, Vector of Corn Stunt Disease"
 Chair: Raul Medina
 Co-Chair: Julio Bernal
- Jamshaid Ali Junaid Plant Breeding
 Dissertation: "Development and Characterization of Advanced Generations A₂D₁ Chromosome Segment Substitution Lines in Cotton"
 Chair: David Stelly
- Rebecca Kirkpatrick Kemp Animal Science
 Dissertation: "Evaluation of Hempseed Meal as a Protein Source in Swine Finishing Rations"
 Chair: Kerri B. Gehring
- Ammani Naidu Kyanam Plant Breeding
 Dissertation: "Advancements in Sorghum Breeding to Address Emerging Challenges"
 Chair: William L. Rooney
- Zheng Li Ecology and Conservation Biology
 Dissertation: "Wildfires in the Western US Rangelands: Spatial and Temporal Patterns and Impacts on Vegetation Structure"
 Chair: Xinyuan Wu
 Co-Chair: Jay P. Angerer
- Randy Scott Lund Agricultural Leadership, Education, and Communications
 Dissertation: "An Analysis of Demand for Secondary Agricultural Teachers by Pathway"
 Chair: Timothy H. Murphy
- Rafael Ernesto Martinez Animal Science
 Dissertation: "Evaluation of Amino Acid Synthesis *In Vitro* by Equine Enterocytes and the Ability of Dietary Arginine Supplementation to Improve Gestational Performance of Aged Mares"
 Chair: Jessica L. Lucia

- Thomas James McGlynn..... Entomology
 Dissertation: "An Examination of Mating Behavior in *Anopheles gambiae* Species Complex Mosquitoes"
 Chair: Pete Teel
 Co-Chair: Gabriel L. Hamer
- Erin Nguyen..... Ecology and Evolutionary Biology
 Dissertation: "Stream Flow Management as a Conservation Tool for Great Plains Fishes"
 Chair: Joshua S. Perkin
- Kuan Qin..... Horticulture
 Dissertation: "Application of Lignite-Derived Humic Substances in Vegetable Production Systems"
 Chair: Daniel Leskovar
 Co-Chair: Sanjay Antony-Babu
- Jennifer Lyn Rhinesmith..... Entomology
 Dissertation: "Smelling, Searching, and Sabotage: Effects of Two Primary Colonizers, *Lucilia sericata* (Meigen) (Diptera: calliphoridae) and *Nicrophorus vespilloides* (Herbst) (Coleoptera: silphidae), on Carrion Volatiles and Attraction"
 Chair: Jeffery Tomberlin
- Jordan Elizabeth Rogan..... Ecology and Conservation Biology
 Dissertation: "Assessing the Impacts of Land Use Change on Mammals in a Social-Ecological System: Conservation Implications for Biodiversity and Livelihoods in Monteverde, Costa Rica"
 Chair: Thomas Lacher
- Nirvay Sah..... Physiology of Reproduction
 Dissertation: "Metabolism of One-Carbon Units and Creatine in Uterine-Placental Tissues During Pregnancy in Sheep"
 Chair: Fuller Bazer
- Xiaoqing Shen..... Agronomy
 Dissertation: "Application of Botanical Composition Identification and Accuracy Assessment for Grassland Mixtures and Brush from Unoccupied Aerial System Imagery"
 Chair: Jamie L. Foster
 Co-Chair: Russell W. Jessup
- Eric Benedict Sobotik..... Poultry Science
 Dissertation: "Evaluating the Efficacy of a Novel Consensus Bacterial 6-Phytase Variant on Broiler Performance"
 Chair: Gregory S. Archer
- Timothy Michael Sveeggen..... Genetics
 Dissertation: "Annexin A2 Controls Lipid Composition Necessary for Junctional Stability in Response to Sphingosine 1-Phosphate"
 Chair: Kayla J. Bayless
- Shaik Waseem Vali..... Biochemistry
 Dissertation: "Biophysical and Bioanalytical Probes to Study Iron Trafficking in Yeast, Archaea, and Mammals"
 Chair: Vishal Gohil

Joseph Garrett Vasselli..... Plant Pathology
 Dissertation: "Roles of Cytoskeletal Polarity in Fungal Spore Adhesion and Growth"
 Chair: Brian Shaw

Alicia Walker..... Poultry Science
 Dissertation: "The Evaluation of Live Production and Processing Interventions and their Impact on *Salmonella* Reduction in Broilers"
 Chair: John Carey

Ying Wang..... Agricultural Economics
 Dissertation: "Essays on Social Connections and Environmental Economics"
 Chair: Richard Woodward

Lindsay Ann Westbrook..... Animal Science
 Dissertation: "Promotion of Lipid Accumulation in Adipose Tissue by GPR43 and Oleic Acid"
 Chair: Stephen B. Smith

Bin Wu..... Horticulture
 Dissertation: "Strategic Integration of Insect-Plant Interaction Study, Natural Enemy Investigation, and Establishment of Callus-Induced Crapemyrtle Regeneration for Managing Crapemyrtle Bark Scale (Hemiptera: Eriococcidae)"
 Chair: Mengmeng Gu
 Co-Chair: Hongmin Qin

Runshi Xie..... Horticulture
 Dissertation: "Biological Parameters of Crapemyrtle Bark Scale (CMBS; *Acanthococcus lagerstroemiae*) and the Plant-insect Interactions between Host Plants and CMBS"
 Chair: Mengmeng Gu
 Co-Chair: Hongmin Qin

Lahong Xu..... Molecular and Environmental Plant Sciences
 Dissertation: "Characterization of the Localized Immune Responses at the Single Cell Resolution in Arabidopsis Roots"
 Chair: Ping He
 Co-Chair: Jing Cai

Homa Zarghami..... Molecular and Environmental Plant Sciences
 Dissertation: "Genetic Analysis of Salt Tolerance in Cowpea"
 Chair: Dirk B. Hays

College of Architecture

Doctor of Philosophy

Mohammad S A A M Alawadhi..... Architecture
 Dissertation: "Teaching an Artificial Intelligence with Generated Virtual Buildings for Real-World Recognition"
 Chair: Wei Yan

- Ziad Mohammednoor J Ashour Architecture
 Dissertation: "BIM-Enabled Augmented Reality for Learning and Understanding Buildings"
 Chair: Wei Yan
- Mirsalar Kamari Construction Science
 Dissertation: "Construction Site Hurricane Preparedness Using Digital Twinning through Large-Scale Visual Data"
 Chair: Youngjib Ham
- Manogna Kavuru Architecture
 Dissertation: "Assessing the Potential of Infrared Thermography for Heritage Conservation in India – Case studies of the Former British Residency in Hyderabad and the Shivappa Nayaka Palace in Shivamogga, India."
 Chair: Stephen Caffey
- Namgyun Kim Construction Science
 Dissertation: "Curbing Construction Workers' Risk Habituation to Workplace Hazards: Observing Habituated Behaviors and Providing Interventions in a Virtual Reality Environment"
 Chair: Changbum R. Ahn
 Co-Chair: Brian A. Anderson
- Se Woong Kim Urban and Regional Science
 Dissertation: "Exploring The Effect of Physical Form on Urban Heat Island Variations"
 Chair: Robert D. Brown
- Taewoo Ko Construction Science
 Dissertation: "Natural Language Processing-Driven Approach to Utilization of Unstructured Textual Data for Enhanced Project Planning"
 Chair: Hyungseok D. Jeong
- Hoonyong Lee Construction Science
 Dissertation: "Generalization in Wi-Fi-Based Single Occupant Activity Recognition Through Activity-Specific Feature Representation"
 Chair: Changbum R. Ahn
- Ahmed Abdullah H Mezaien Architecture
 Dissertation: "Analysis of Regenerative, High-Performance and Cultural-Based Single-Family Homes: Impacts of a New Generation of Affordable Housing in Saudi Arabia"
 Chair: Juan-Carlos Baltazar
- Wonjae Yoo Architecture
 Dissertation: "BIM-Based Automatic Outdoor Thermal Environment and Thermal Comfort Evaluation System Using EnergyPlus-Driven Deep Learning"
 Chair: Mark Clayton

Mays Business School

Doctor of Philosophy

- James Ogden Driver Business Administration
 Dissertation: "Essays on Innovation in Corporate Finance"
 Chair: Shane A. Johnson
 Co-Chair: Adam C. Kolasinski

- Rachel Winn Flam Business Administration
 Dissertation: "Social Media Engagement with the Business Press"
 Chair: Nathan Sharp

- Melanie K. Prengler Management
 Dissertation: "Beyond 'Do Better, Try Harder': A Grounded Exploration of How Employees Evaluate, Experience, and Respond to Allyship Failure"
 Chair: Anthony Klotz

- Muzeeb Shaik Business Administration
 Dissertation: "Business-to-Business Sales Opportunity Management Strategy"
 Chair: Shrihari Sridhar
 Co-Chair: Vikas Mittal

- Pok Man Tang Management
 Dissertation: "Third-Party Reactions To Ethical Conflict in the Workplace"
 Chair: Joel E. Koopman

- Yun Wang Business Administration
 Dissertation: "Essays on Firms' Strategic Decisions under Consumer Uncertainty"
 Chair: Yan Liu
 Co-Chair: Cexun Cai

College of Dentistry

Doctor of Philosophy

- Ritesh Bhattacharjee Oral and Craniofacial Biomedical Sciences
 Dissertation: "Analysis and Quantification of Orbital Fractures: An Artificial Intelligence-Based Approach"
 Chair: Matthew Kestrerke
 Co-Chair: Ganes Sankaranarayanan

- Zheng Wang Oral and Craniofacial Biomedical Sciences
 Dissertation: "Tendon Cells Root into Rather Than Attach to the Humerus Bone Head via Entesis Fibrocartilage"
 Chair: Yan Jing
 Co-Chair: Kathy K. Svoboda

- Qian Xu Oral and Craniofacial Biomedical Sciences
 Dissertation: "Roles of Inositol-requiring Enzyme 1 Alpha (IRE1A) in Odontogenesis"
 Chair: Yongbo Lu

College of Education and Human Development

Doctor of Education

- Robin Ries Bova Curriculum and Instruction
Record of Study: "The Relationship Between Professional Development in Social-Emotional Learning and Symptoms of Compassion Fatigue in Middle School Educators"
Chair: Michelle M. Kwok
Co-Chair: Karen E. Rambo
- Elana Rebecca Goldbaum Curriculum and Instruction
Record of Study: "Racism, Genocide, and Social Hatreds: 'How Do We Teach Knowledge That Hurts?' Exploring a Community of Practice for Educator Support"
Chair: Radhika Viruru
Co-Chair: Susan Fields
- Kelly Kristina Harle Curriculum and Instruction
Record of Study: "Evaluating the Effectiveness of an Induction and Mentoring Program on Novice Educators' Teaching Efficacy and Impact on Pedagogical Skills"
Chair: Robin A. Rackley
- Ashton Hughes Curriculum and Instruction
Record of Study: "Affecting Student Growth in Reading Through Text Structure Strategy Intervention"
Chair: Sharon D. Matthews
Co-Chair: Debra McKeown
- Molley Ann Perry Educational Administration
Record of Study: "Examining School Administrators' Perceptions Regarding Special Education Enrollment Trends in Texas Public Schools"
Chair: Daniel H. Bowen
- Christina Dawn Richardson Educational Administration
Record of Study: "Early College High School Graduates' Perceptions of College Readiness During Bachelor's Degree Attainment"
Chair: Daniel H. Bowen
- Joey Michelle Shimek Curriculum and Instruction
Record of Study: "Closing the Gaps in Mathematics for Elementary-Aged Students using Various Musical Interventions"
Chair: Mary Capraro
Co-Chair: Robert Capraro
- Jennifer Beth Stumbaugh Educational Administration
Record of Study: "Principal Turnover in Texas, Title I High Schools: A Narrative Multiple Case Study"
Chair: Gwendolyn Webb-Johnson
- Brandon David Vestal Curriculum and Instruction
Record of Study: "Cultivating Compassion Through Discussion"
Chair: Sharon D. Matthews
Co-Chair: Radhika Viruru

Victoria Michelle Walloch Curriculum and Instruction
 Record of Study: "Professional Development Models for Secondary Co-Teachers"
 Chair: Michelle M. Kwok
 Co-Chair: Karen E. Rambo

Doctor of Philosophy

Sakina F. Ali Counseling Psychology
 Dissertation: "The Roles of Attitudinal Familism, Acculturative Stress, and Depressive Symptoms for South Asian College Students"
 Chair: Linda Castillo

Bhagyashree Barhate Educational Human Resource Development
 Dissertation: "Career Aspirations of Generation Z in India's Information Technology Industry: A Grounded Theory Exploration"
 Chair: Khalil M. Dirani

Rhonda Vickers Beassie Educational Administration
 Dissertation: "How the 'Danger Tours' Inform Protection of Controversial Speech in the Marketplace"
 Chair: Vicente Lechuga

Julia Elise Calabrese Curriculum and Instruction
 Dissertation: "Exploring the Connection between Word Problem Structure and Problem Posing"
 Chair: Mary Capraro
 Co-Chair: Jamaal R. Young

Sergio Heriberto Camarillo Arroyo Educational Psychology
 Dissertation: "Impact of Targeted Interventions for English Learners in the Domains of Word Recognition, Letter Sound, and Phonological Awareness"
 Chair: Rafael Lara-Alecio
 Co-Chair: Fuhui Tong

Hamada Ahmed Fahmy Ahmed Elfarargy Educational Administration
 Dissertation: "Practicing Elementary School Principals' Perceptions of How University Principal Preparation Programs Prepared Them for Instructional Leadership"
 Chair: Beverly Irby
 Co-Chair: Jean Madsen

Vassa Grichko Educational Administration
 Dissertation: "Essays on Technology Transfer at American Universities at Critical Time Points"
 Chair: Glenda D. Musoba

Jaime Angelle Guillot-Dykes School Psychology
 Dissertation: "Path Analysis on Factors Contributing to Victimization in Adolescence"
 Chair: Jamilia Blake

Bing Han Curriculum and Instruction
 Dissertation: "Understanding Metalinguistic Awareness and Literacy Development in a Morphosyllabic Orthography"
 Chair: R Joshi

- Daphne Jasmine Hill School Psychology
 Dissertation: "Socialization on Social Media: An Exploration of Online Race-Related Experiences and Black Youth Development"
 Chair: Leann V. Smith
- Dylan Stone Holly Kinesiology
 Dissertation: "Genetic Background Influences Arterial Vasomotor Function in Male and Female Mice"
 Chair: Christopher Woodman
- Emily Machel Jimenez School Psychology
 Dissertation: "Predictors of Social Functioning in Adolescents with Pediatric Epilepsy"
 Chair: Cynthia Riccio
- Sang Hoon Kim Kinesiology
 Dissertation: "Fan Agency, Social Modeling of Stadium, and Behavioral Engagement: A Perspective on Building Participatory Fan Culture and Community"
 Chair: Hyun-Woo Lee
- Steven David Koether Educational Human Resource Development
 Dissertation: "Critical Thinking in the Undergraduate Classroom: Attitudes and Preferences from Emerging and Adult Learners"
 Chair: Junghwan Kim
 Co-Chair: Elizabeth Roumell
- Cynthia Kathleen Lang School Psychology
 Dissertation: "Preventative Medical Care for Pediatric Asthma and Utilization of Mental Health Care Services"
 Chair: Cynthia Riccio
- Cristal Lopez Counseling Psychology
 Dissertation: "Experiencing Impostor Phenomenon? You're Not Alone: Impostor Phenomenon, General Self-efficacy, and Burnout Among STEM Professionals in the U.S."
 Chair: Lizette Ojeda
- Karen Elizabeth Graham McIntush Curriculum and Instruction
 Dissertation: "Teacher Preparation and Implementation: Examining Culturally Responsive Classroom Management"
 Chair: Hersholt Waxman
- Tracie Lynn Miller Educational Human Resource Development
 Dissertation: "A Qualitative Study of African American Women's Learning Experiences in Financial Literacy Courses"
 Chair: Elizabeth Roumell
 Co-Chair: Lisa Baumgartner
- Karol Ann Moore Curriculum and Instruction
 Dissertation: "The Identification and Prevalence of Dyslexia Among English Learners"
 Chair: R Joshi
- Sonya S. Panjwani Health Education
 Dissertation: "Integrated Health Service Delivery Networks and their Implications for the First 1,000 Days in Rural Colombia"
 Chair: Whitney R. Garney

- Sangchul Park Kinesiology
 Dissertation: "The In-Depth Investigation of Performance Attribution Effect in Fitness Service: Before, During, and After Service Operation"
 Chair: Hyun-Woo Lee
- Luis Fernando Ponte Rodriguez Counseling Psychology
 Dissertation: "Masculine Gender Role Conflict and Suicidal Ideation Among Justice Involved Veterans: A Moderation Analysis"
 Chair: Lizette Ojeda
- Ambyr Ruth Acton Rios Curriculum and Instruction
 Dissertation: "Cultivating Culturally Multidimensional Literacy Teachers: Examining Possibilities in Preservice Teacher Preparation"
 Chair: Cheryl J. Craig
 Co-Chair: Andrew H. Kwok
- Lauren Gail Santarelli Curriculum and Instruction
 Dissertation: "'Imagine You Are...': Historical Empathy and U.S. History Textbook Activities"
 Chair: Lynn Burlbaw
- Jenna Kristine Schwartz School Psychology
 Dissertation: "Reading Development in Childhood Epilepsy and Neuropsychological Predictors: Utility and Longitudinal Results"
 Chair: Cynthia Riccio
- Ticiane Silva School Psychology
 Dissertation: "Associations between Neurocognitive Processes, Academic Achievement, and Social Functioning in Children and Adolescents with Symptoms of ADHD"
 Chair: Cynthia Riccio
- Brandon Paul Smith Counseling Psychology
 Dissertation: "Military and Civilian College Male Mental Health Stigma, Disclosure, and Treatment Efficacy Beliefs"
 Chair: Linda Castillo
- Mariah Montgomery Stickle Counseling Psychology
 Dissertation: "Behavioral Health Diagnoses in Rural Primary Care"
 Chair: Timothy Elliott
 Co-Chair: Carly E. McCord
- Huilin Sun School Psychology
 Dissertation: "The N400 Effect and Reading Difficulties in Elementary School Children"
 Chair: Steven Woltering
 Co-Chair: Cynthia Riccio
- Ileana Yasmin Umama School Psychology
 Dissertation: "Designing a Culturally Grounded Psychoeducational Intervention for Spanish-Speaking Parents of Children with ASD"
 Chair: Sara M. Castro Olivo
 Co-Chair: Julie Thompson

- Sarah Kathleen Ura Educational Psychology
 Dissertation: "Race and Teachers' Differential Decision-Making About Students' Behavior: Results from a Name Experiment"
 Chair: Jeffrey Liew
 Co-Chair: Sara M. Castro Olivo
- Laurel Brinley Wade Counseling Psychology
 Dissertation: "Positive Psychological Mechanisms Through Which Resilience Facilitates Adjustment Among Individuals With Spinal Cord Injury and Disease"
 Chair: Timothy Elliott
- Erika Wright Counseling Psychology
 Dissertation: "Resilience and the Prospective Prediction of Adjustment of Adults with Disabling Conditions from Early to Middle Adulthood"
 Chair: Timothy Elliott
- Yu Xiao Curriculum and Instruction
 Dissertation: "Effects of STEM Teachers' Self-Efficacy on Their Job Satisfaction: A Multidimensional Study"
 Chair: Yeping Li
- Sijin Yan Curriculum and Instruction
 Dissertation: "Toward A Feminist and Femme-nist Reconsideration of Moral Education: Levinas, Anti-Violence Education, and the Issue of Femmephobia"
 Chair: Geor Slattery
- Caroliina He Yin Counseling Psychology
 Dissertation: "Boundary Setting of Mental Health Professionals: Its Relationship to Self-Care, Burnout, and Well-Being"
 Chair: Charles Ridley
- Bo Yu Kinesiology
 Dissertation: "Athlete Branding in the Digital Era: Athlete Personal Branding through Self-Presentation on Twitch"
 Chair: Gregg Bennett
 Co-Chair: Natasha T. Brison
- Mehrangiz Zadegh Abadi Educational Human Resource Development
 Dissertation: "Work/Nonwork Boundary: A Phenomenological Investigation of the U.S Pre-Tenured Academic Faculty during the Covid-19 Pandemic"
 Chair: Khalil M. Dirani
- Fubiao Zhen Educational Psychology
 Dissertation: "Examining the Impact of Literacy Infused Science Curriculum and Professional Development on Diverse Learners' Science Content Knowledge Learning"
 Chair: Fuhui Tong

College of Engineering

Doctor of Engineering

Victor Hugo Hernandezgaytan Engineering
Record of Study: "The Reemergence of a Geotechnical, Special Inspection,
and Construction Material Testing Firm"
Chair: Charles M. Wolf

Doctor of Philosophy

Bilal Saad Azeez Abada Civil Engineering
Dissertation: "Municipal and Industrial Wastewater Treatment via
Reverse Osmosis, Electrocoagulation, and Dissolved Air
Flotation"
Chair: Shankararaman Chellam

Amal Abdelaziz Civil Engineering
Dissertation: "Multiscale Characterization of Asphalt Binders and Mix-
tures with High Reclaimed Asphalt Pavement Content"
Chair: Amy E. Martin
Co-Chair: Eyad Masad

Mohammed Gomaa Eid Farag Abdoelatef. Materials Science and Engineering
Dissertation: "A Novel Mesoscale Modeling of Fracture in Nuclear Fuels"
Chair: Karim E. Ahmed

Lena Baker Mohammad Abu-Ennab. Civil Engineering
Dissertation: "Comparative Life Cycle Assessment of Large-Scale 3D
Printing Utilizing Kaolinite-Based Calcium Sulfoalumi-
nate Cement Concrete and Conventional Construction"
Chair: Bjorn Birgisson
Co-Chair: Manish K. Dixit

Davis Weaver Adams Aerospace Engineering
Dissertation: "Velocimeter LIDAR Information Fusion For Guidance,
Navigation, and Control of Aerospace Systems"
Chair: Manoranjan Majji
Co-Chair: John Junkins

Diana Al Husseini Materials Science and Engineering
Dissertation: "Surface Functionalization for Selective Mid-Infrared On-
Chip Sensing"
Chair: Svetlana Sukhishvili

Luay Mohammad Deeb Alawneh Nuclear Engineering
Dissertation: "Conceptual Design of a 3 MWTH Yttrium Hydride
Moderated Heat Pipe Cooled Micro Reactor for Spacefar-
ing Applications"
Chair: Yassin Hassan

Mohammad Fuad Amin Aljarrah Civil Engineering
Dissertation: "Characterization, Generation, and Computational
Modeling of Asphalt Nanostructures for Predicting Their
Mechanical Response"
Chair: Eyad Masad
Co-Chair: Dallas Little

- Richard C. Allen Chemical Engineering
 Dissertation: "Solution Strategies for Developing Large-Scale Energy Systems"
 Chair: Efstratios Pistikopoulos
- Sulaiman Mohammed S Alsaleem Mechanical Engineering
 Dissertation: "Experimenetal Investigation of Convective Heat Transfer and Pressure Losses in Turbine Blade Internal Cooling Channels"
 Chair: Je Han
 Co-Chair: Lesley M. Wright
- Abdulrahman Saleh A Alsuhaibani Chemical Engineering
 Dissertation: "A Multiscale-System Analysis of the Techno-Economic and Environmental Aspects of Shale and Natural Gas Monetization Pathways"
 Chair: Mahmoud El-Halwagi
 Co-Chair: Nimir Elbashir
- Sulaiman Abdulaziz A Alturaifi Mechanical Engineering
 Dissertation: "Laser Absorption Diagnostic for Chemical Kinetics Studies of Ammonia"
 Chair: Eric Petersen
- Ahmad Amiri Mechanical Engineering
 Dissertation: "Multifunctional Energy Storage Devices: Charging Up the Future Technologies"
 Chair: Andreas A. Polycarpou
- Maria Stefany Angarita Gomez Chemical Engineering
 Dissertation: "Dynamics and Mechanisms of Ion Transport Through Liquid and Amorphous Phases of Lithium Metal Batteries"
 Chair: Perla Balbuena
- Begona Aranguren Nuclear Engineering
 Dissertation: "Secondary Electron Transport in Nuclear Avalanche Cells Induced by Photon Irradiation"
 Chair: Sean McDeavitt
- Michael Bae Chemical Engineering
 Dissertation: "Novel Nanocomposite Biopesticides with Azadirachtin to Protect Tomato Plants against Fall Armyworms"
 Chair: Mustafa Akbulut
- Mohammed Saad Faizan Bangi Chemical Engineering
 Dissertation: "Hybrid Modeling Approaches Integrating Physics-Based Models with Machine Learning for Predictive Control of Biological and Chemical Processes"
 Chair: Joseph S. Kwon
- Kian Bashandeh Khodaeinaeini Mechanical Engineering
 Dissertation: "Tribology of High-Performance Polymers at Extreme Conditions From Cryogenic to Elevated Temperatures"
 Chair: Andreas A. Polycarpou
- Jaskirat Singh Batra Materials Science and Engineering
 Dissertation: "Low-Cost Wearable Biosensors for Virus and Lithium Monitoring in Healthcare"
 Chair: Jun Kameoka

- Patrick Alan Behne Nuclear Engineering
 Dissertation: "Data-Driven, Projection-Based Model Order Reduction with Proper Orthogonal Decomposition for Parametric Radiation Transport"
 Chair: Jean C. Ragusa
- Ethan Samuel Beyak Aerospace Engineering
 Dissertation: "Transition Physics and Boundary-Layer Stability: Computational Modeling in Compressible Flow"
 Chair: Helen Reed
- Casey Joseph Broslawski Aerospace Engineering
 Dissertation: "The Modeling and Experimentation of Hypersonic Turbulent Boundary Layers With and Without Thermal Nonequilibrium"
 Chair: Rodney Bowersox
- Kaiyu Cao Chemical Engineering
 Dissertation: "Integration of Pumping Profile Design and Water Management Optimization for Shale Gas Production Systems"
 Chair: Joseph S. Kwon
- Jingfan Chen Mechanical Engineering
 Dissertation: "Dynamic Transport of Magnetic Driven Nanocarriers for Brain-Specific Drug Delivery"
 Chair: Ya Wang
- Jinhao Chen Computer Engineering
 Dissertation: "Roundoff-Error-Free Solution to Sparse Linear System: Low-Rank Modification"
 Chair: Timothy A. Davis
- Phakpoom Chinprutthiwong Computer Science
 Dissertation: "The Service Worker Hiding in Your Browser: Novel Attacks and Defenses in Appified Websites"
 Chair: Guofei Gu
- Byung-Hee Choi Mechanical Engineering
 Dissertation: "Numerical Simulation of Flow through a Piping System - Recirculation and Mixing"
 Chair: Nagamangala Anand
 Co-Chair: Yassin Hassan
- Kenny Chour Mechanical Engineering
 Dissertation: "Methods for Solving the Multi-UAV Rendezvous Recharging Problem and Variants"
 Chair: Sivakumar Rathinam
- Edison Orlando Cobos Torres Mechanical Engineering
 Dissertation: "New Spatially Dependent Models for Web Lateral Dynamics and Model-Based Designs for Control of Web Lateral Position and Slope"
 Chair: Prabhakar Pagilla
- Vedang Mohanrao Deshpande Aerospace Engineering
 Dissertation: "Sparse Sensing and Actuation Architectures with Optimal Precision and Guaranteed H_2/H_∞ Performance"
 Chair: Raktim Bhattacharya

- Xiaoyu Duan Electrical Engineering
 Dissertation: "Dual Modal Optical and Acoustic Communication and Ranging (Pair) Device Based on Water Immersible Micro Scanning Mirrors (WIMSM)"
 Chair: Jun Zou
 Co-Chair: Dezhen Song
- Ian Johnny Echols Chemical Engineering
 Dissertation: "Layer-by-Layer Assembly of MXene-Based Thin Films"
 Chair: Jodie L. Lutkenhaus
 Co-Chair: Micah Green
- Jesse M. Fine Biomedical Engineering
 Dissertation: "Computational Modeling Systems for the Development of Remote Monitoring Medical Devices"
 Chair: Gerard Cote
 Co-Chair: Michael J. McShane
- Camila Freitas Matozinhos Mechanical Engineering
 Dissertation: "Experimental And Numerical Analysis Of The Flow In Rod Bundles With Spacer Grids"
 Chair: Yassin Hassan
- Gunner Smith Fritsch Aerospace Engineering
 Dissertation: "Robust Approaches to Nonlinear Filtering with Applications to Navigation"
 Chair: Kyle DeMars
- Diego Eduardo Galvez Aranda Electrical Engineering
 Dissertation: "Solid Electrolyte Formation in LI-Metal Batteries and LIFSI/TMP Electrolyte"
 Chair: Jorge Seminario
- Yang Gang Mechanical Engineering
 Dissertation: "Sustainable and Scalable Synthesis of Metal-Nitrogen-Carbon Catalysts for Efficient Electrochemical CO2 Reduction"
 Chair: Ying Li
- Parisa Ghane Electrical Engineering
 Dissertation: "Novel Approaches in Classification Error Estimation, Predicting Generalization in Deep Learning, and Hybrid Compartmental Models"
 Chair: Ulisses Braga Neto
- Julian Camilo Gomez Diaz Electrical Engineering
 Dissertation: "Multi-Channel Receivers for Wireless and Wireline Communication Systems"
 Chair: Sebastian Hoyos
- Meghan Roberta Graul Biomedical Engineering
 Dissertation: "Evaluation of an Acute Animal Model of Heart Failure with Preserved Ejection Fraction and Simulation with Consideration of the Pulmonary Baroreceptor Reflex"
 Chair: John Criscione

- Christine Marie Greve Aerospace Engineering
 Dissertation: "Real-Time State Estimation in Plasma Modeling Applications"
 Chair: Manoranjan Majji
 Co-Chair: Kentaro Hara
- Tristan D. Griffith Mechanical Engineering
 Dissertation: "A Modal Approach to the Space Time Dynamics of Cognitive Biomarkers"
 Chair: James E. Hubbard, Jr.
 Co-Chair: Mark Balas
- Yun He Computer Science
 Dissertation: "Intelligent Knowledge Transfer for Multi-Stage and Multi-Task Learning"
 Chair: James Caverlee
- Minki Hong Biological and Agricultural Engineering
 Dissertation: "Representing Hydraulically-Based Stream-Hillslope-Continuum in the National Water Model for Improved Hydrologic Predictions: Catchment-Scale Application of Boussinesq Theory"
 Chair: Binayak Mohanty
- Sarah Katherine Hopko Industrial Engineering
 Dissertation: "Brain-Behavior Mappings of Trust in Shared Space Human-Robot Collaboration"
 Chair: Ranjana Mehta
- Jie Hu Mechanical Engineering
 Dissertation: "Active Robot Perception for Object Pose Estimation"
 Chair: Prabhakar Pagilla
 Co-Chair: Dvahg Swaroop
- Qin Huang Computer Science
 Dissertation: "Big Data Algorithms with Limited Local Resources"
 Chair: Jianer Chen
- Alisa Helen Isaac Biomedical Engineering
 Dissertation: "Assessing the Impact of the Anti-PEG Response on Tissue Engineering Efficacy with PEG Hydrogels"
 Chair: Daniel L. Alge
- Fernando Xavier Jarrin Perez Biological and Agricultural Engineering
 Dissertation: "The Suitability of the SWAT Model to Perform Hydrological Assessments in High-Elevation Neotropical Catchments"
 Chair: Vijay Singh
- Himanshu Shekhar Jha Petroleum Engineering
 Dissertation: "Production Forecasting in High Gas-Oil-Ratio Wells"
 Chair: William Lee
 Co-Chair: Thomas A. Blasingame
- Aditya Katiyar Biomedical Engineering
 Dissertation: "Studying Nuclear Deformation During Migration of Cells through Confining Environments"
 Chair: Tanmay P. Lele

- Baik Jin Kim Mechanical Engineering
 Dissertation: "Rotordynamics Analysis with a Hirth and Curvic Coupling: 3D Solid Finite Element and Efficient Beam Model"
 Chair: Alan Palazzolo
- Jinwoo Kim Interdisciplinary Engineering
 Dissertation: "Biosensing of Location-based Environmental Distress of Pedestrians for Walkable Built Environments"
 Chair: Changbum R. Ahn
 Co-Chair: Theodora Chaspari
- Xiaoqiang Kong Civil Engineering
 Dissertation: "Incorporating Mobility Information into an Epidemiological Model to Model Infected Cases at the Onset of COVID-19 Pandemic"
 Chair: Yunlong Zhang
- Vasileios Kyriakopoulos Nuclear Engineering
 Dissertation: "Development of a Transient Single-Phase Subchannel Code & Integration within the Multi-Purpose, Multi-Physics MOOSE Computational Framework"
 Chair: Jean C. Ragusa
- Jonathan David Dionela Lasco Civil Engineering
 Dissertation: "Development of NRCS Peak Rate Factors for Hydrologic Modeling in Texas"
 Chair: Francisco Olivera
- Jiawei Li Petroleum Engineering
 Dissertation: "Hydraulic Fracture Height Growth in Laminated Shale Formations"
 Chair: Kan Wu
- Ming Li Industrial Engineering
 Dissertation: "Experimental Investigation and Modeling of Powder-Bed Additive Manufacturing Processes"
 Chair: Zhijian Pei
 Co-Chair: Chao Ma
- Wei Li Industrial Engineering
 Dissertation: "Design and Fabrication of Photo-Thermal and Thermo-Electric Materials and Systems"
 Chair: Shiren Wang
- Xudong Li Civil Engineering
 Dissertation: "Modeling and Forecasting Hurricane Floods over Coastal Urban Watersheds"
 Chair: Huilin Gao
- Yaguang Li Computer Engineering
 Dissertation: "Machine Learning Techniques for Performance Driven Analog IC Layout"
 Chair: Jiang Hu
- Guanyang Liu Chemical Engineering
 Dissertation: "Multiscale Model-Based Design for Inhibition of Thermal Runaway in Free-Radical Polymerization"
 Chair: Benjamin A. Wilhite

- Yi Liu Computer Science
 Dissertation: "Topology and Position Aware Graph Neural Networks"
 Chair: Shuiwang Ji
- Yijing Liu Electrical Engineering
 Dissertation: "System Dynamics Modeling of Synthetic Power Grids
 with High Renewable Penetration Level"
 Chair: Thomas Overbye
 Co-Chair: Katherin M. Davis
- Rong Ma Chemical Engineering
 Dissertation: "Development and Application of Surface-Active
 Graphene Quantum Dots"
 Chair: Qingsheng Wang
- Saheli Majumdar Civil Engineering
 Dissertation: "Managed Aquifer Recharge Using Multiwell Aquifer
 Storage Recovery Systems and Enhanced Infiltration
 Systems"
 Chair: Gretchen R. Miller
- Matthew Aaron Martinez Mechanical Engineering
 Dissertation: "The Dual Mesh Control Domain Method for Linear
 and Nonlinear Convection-Diffusion Equations in Two
 Dimensions"
 Chair: Junuthula Reddy
- Johnathan Tyler McKenzie Industrial Engineering
 Dissertation: "Countering Task-Induced Cognitive Fatigue via Rotation
 of Tasks with Contrasting Resource Demands"
 Chair: Thomas K. Ferris
- Guanxiong Miao Mechanical Engineering
 Dissertation: "Binder Jetting Additive Manufacturing: Fundamental
 Studies on Powder Spreading"
 Chair: Chao Ma
 Co-Chair: Zhijian Pei
- Jacob Lee Mingear Materials Science and Engineering
 Dissertation: "Enabling High Power Density NiTi Shape Memory
 Alloys Actuators Using Liquid Metal Driven Energy Cir-
 cuits Facilitated by Additive Manufacturing and Surface
 Engineering"
 Chair: Darren J. Hartl
- Subodh Mishra Mechanical Engineering
 Dissertation: "Multi-Sensor Registration for Autonomous Systems"
 Chair: Srikanth Saripalli
- Ahmed Mohamed Morsy Mechanical Engineering
 Dissertation: "The Impact of Continuous Commissioning on Peak
 Electric Demand in Buildings"
 Chair: David Claridge
- John Patrick Mulloy, Jr. Mechanical Engineering
 Dissertation: "Erosion of Hypersonic Warhead by Nuclear Dust Cloud
 Impact"
 Chair: Yassin Hassan

- Juran NohMaterials Science and Engineering
 Dissertation: "Ion and Electron Transport in Porous Media for Electrochemical Energy Storage System"
 Chair: Choongho Yu
- Opeyemi Adekunmi Olokede Chemical Engineering
 Dissertation: "Anaerobic Digestion and Pretreatment Techniques that Enhance the Digestibility of Lignocellulosic Biomass"
 Chair: Mark Holtzaple
- Andrew Joseph PalughiMaterials Science and Engineering
 Dissertation: "An Investigation Into Modeling Heat Transfer In Polyethylene Molecular Crystal Systems with Molecular Dynamics"
 Chair: Tahir Cagin
- Iosif Pappas Chemical Engineering
 Dissertation: "Multiparametric Optimization Strategies For Process Operations Under Uncertainty"
 Chair: Efstratios Pistikopoulos
- Trent Forrest Parker Chemical Engineering
 Dissertation: "Application of Safety Triad in Relation to Chemical Hazards"
 Chair: Qingsheng Wang
- Sina PourjabarComputer Engineering
 Dissertation: "Reconfigurable LDPC Decoders for Adaptable Throughput in 5G, Wi-Fi and Storage"
 Chair: Seong G. Choi
- Pranav Pradeep Kumar Civil Engineering
 Dissertation: "From Fatigue-to-Fracture: Probabilistic Total-Life of Steel Bridge Structures"
 Chair: John Mander
- Abhinav Prakash Industrial Engineering
 Dissertation: "Novel Function Estimation and Comparison Methods with Applications in Wind Power Curve Modeling"
 Chair: Yu Ding
- Rameez Riyaz Qureshi Civil Engineering
 Dissertation: "Community Disaster Recovery Resourcing Strategy Design and Assessment"
 Chair: David Ford
- Hemant Janardhan RathodMaterials Science and Engineering
 Dissertation: "Mechanisms and Implications of Kink-Banding in Layered Materials"
 Chair: Ankit Srivastava
 Co-Chair: Miladin Radovic
- Jay Kamlesh RavalMechanical Engineering
 Dissertation: "Visualization and Analysis of Tool-Fluid Interactions in Through-Tool MQL Drilling"
 Chair: Li-Jung Tai

- Robert William Reese Biomedical Engineering
 Dissertation: "Strategies to Augment Mesenchymal Stem Cell Mediated Bone Regeneration in Fracture, Fusion, and Osteolytic Lesions"
 Chair: Roland Kaunas
- Peter A. Renner Mechanical Engineering
 Dissertation: "Adaptive Additively Manufactured High-Performance Thermal Coatings"
 Chair: Hong Liang
- Emilio Jose Rocha Coutinho Petroleum Engineering
 Dissertation: "Embedding Reservoir Physics into Machine Learning"
 Chair: Eduardo Gildin
 Co-Chair: Thomas A. Blasingame
- Rupali Sahu Aerospace Engineering
 Dissertation: "Full Fluid Model for Low Temperature Plasmas"
 Chair: Albina Tropina
- Pravin Saraswatula Civil Engineering
 Dissertation: "Durability Based Performance Evaluation of Bridge Deck High-Performance Concrete (HPC) Mixes Through Innovation in Pore Solution and Transport Properties"
 Chair: Anal Mukhopadhyay
 Co-Chair: Dan Zollinger
- Robert N. Saunders Industrial Engineering
 Dissertation: "Metal Additive Manufacturing Process-Structure-Property Relational Linkages Using Gaussian Process Surrogates"
 Chair: Alaa Mohamed H. Elwany
 Co-Chair: Dimitris Lagoudas
- Maryam Savari Computer Engineering
 Dissertation: "Utilizing Human Feedback in the Soft Actor-Critic Algorithm for Autonomous Driving"
 Chair: Yoonsuck Choe
- Nathaniel David Schulz Civil Engineering
 Dissertation: "Investigation of the Relationship Between Bridge Rail Geometrics and AASHTO MASH Compliance"
 Chair: Stefan Hurlbaeus
- Amirali Selahi Biomedical Engineering
 Dissertation: "Lymphangion-Chip: Microengineering of Lymphatic Vascular Physiology and Pathophysiology"
 Chair: Abhishek Jain
- Hussein Saleh Sulaiman Sharadga Mechanical Engineering
 Dissertation: "Sizing and Scheduling Solar Photovoltaic Battery Systems for Peak Electrical Demand Management"
 Chair: Bryan Rasmussen
- Yang Shen Civil Engineering
 Dissertation: "Hybrid Building Energy-Structure Performance Analysis"
 Chair: Matthew T. Yarnold

- Karyn Marie Stern Nuclear Engineering
 Dissertation: "Compressive Creep of Porous Gamma Phase Uranium Metal"
 Chair: Sean McDeavitt
- Kristin Nichole Stolte Nuclear Engineering
 Dissertation: "x-MeRA: A Physics Based Adaptive Mesh Refinement Method and Program for Mesh Based Monte Carlo Tallies"
 Chair: Pavel V. Tsvetkov
- Yang-Denis Su Chemical Engineering
 Dissertation: "The Integration of Design, Control, and Inherent Safety"
 Chair: Efstratios Pistikopoulos
- Wei Trinh Electrical Engineering
 Dissertation: "The Efficient Determination of Electric Grid Modes for Large Systems Using the Matrix Pencil Method"
 Chair: Thomas Overbye
- Samira Vafay Eslahi Electrical Engineering
 Dissertation: "Convolutional Neural Network Optimization and Parallel Compressive Sensing Algorithms for Accelerated MRI Reconstruction"
 Chair: Jim Ji
 Co-Chair: Jian Tao
- Antoni Viros i Martin Aerospace Engineering
 Dissertation: "A Cognitive Assistant for Human-AI Collaborative Early Mission Formulation"
 Chair: Daniel Selva Valero
- Patrick Philip Walgren Aerospace Engineering
 Dissertation: "A Nonlinear Substructure Method for Efficient Reduced-Order Structural Modeling Based on a Classical Plasticity Framework"
 Chair: Darren J. Hartl
- Payton Ross Walker Computer Science
 Dissertation: "An Exposition of Speech-Based Threats in the Face of Emerging Technology"
 Chair: Nitesh Saxena
- Ran Wang Aerospace Engineering
 Dissertation: "Decoupled Data-Based Control (D2C) for Complex Robotic Systems"
 Chair: Suman Chakravorty
 Co-Chair: Dileep Manisseri Kalathil
- Xiao Wang Biological and Agricultural Engineering
 Dissertation: "Activated Iron Media for Wastewater Treatment: Mechanisms for Anionic Contaminants Immobilization and Transformation"
 Chair: Yongheng Huang
- Abdullah Ghassan Weiss Nuclear Engineering
 Dissertation: "Development of a Low-Order Multiphysics Analysis Framework for the Neutron-Irradiation of Samples in the Versatile Test Reactor Rabbit Environment"
 Chair: Mark Kimber

- Hyun-Myung Woo Electrical Engineering
 Dissertation: "Optimal Decision Making for Accelerating Scientific Discovery"
 Chair: Byung-Jun Yoon
 Co-Chair: Edward Dougherty
- Dongqi Wu Electrical Engineering
 Dissertation: "Data-Driven Hazard and Disaster Mitigation in Power System Abnormal Conditions"
 Chair: Le Xie
- Haoran Wu Chemical Engineering
 Dissertation: "Valorizing High-Strength Wastewater through the Carboxylate Platform via Methane-Arrested Anaerobic Digestion"
 Chair: Mark Holtzapple
- Chang Xu Ocean Engineering
 Dissertation: "Experiments on Instabilities and Energy Dissipation of Nonlinear Gravity-Capillary Waves"
 Chair: Marc Perlin
- Ziwei Xuan Electrical Engineering
 Dissertation: "Deep Representation Learning: Applications in Joint Source-Channel Coding and Semantic Segmentation"
 Chair: Zixiang Xiong
 Co-Chair: Krishna Narayanan
- Pappu Kumar Yadav Biological and Agricultural Engineering
 Dissertation: "Artificial Intelligence-Based Computer Vision for Rapid Detection and Classification of Objects in Agricultural Situations"
 Chair: John A. Thomasson
 Co-Chair: Stephen W. Searcy
- Chun-Lin Yang Mechanical Engineering
 Dissertation: "An Energy Based General Framework for Dynamical Complex Networks"
 Chair: Chii-Der Suh
- Xiaoqing Yu Computer Science
 Dissertation: "Deep Learning Approaches for Textual Data Generation"
 Chair: Anxiao Jiang
- Manali Sunil Zantye Chemical Engineering
 Dissertation: "Computational Frameworks for Integrated Design and Operation of Carbon Capture, Renewables and Energy Storage Systems"
 Chair: M M Faruque Hasan
- Mingzhen Zhao Materials Science and Engineering
 Dissertation: "Synthesis and Structure-Property Relationship of Polyolefin/Zirconium Phosphate Nanocomposites"
 Chair: Hung-Jue Su
- Qing Zhou Materials Science and Engineering
 Dissertation: "Effect of Crosslinker Flexibility and Crosslinking Density on Stereochemistry and Thermo-Mechanical Behavior of 3D Printable Diels-Alder Polymer Networks"
 Chair: Svetlana Sukhishvili

Ziwei Zhu Computer Science
 Dissertation: "Toward Responsible Recommender Systems"
 Chair: James Caverlee

College of Geosciences

Doctor of Philosophy

Monica Rae Barbery Geophysics
 Dissertation: "Frictional Weakening During Earthquake Slip on Faults: A Laboratory Study of Sliding-Surface Temperature During High-Speed Slip in Granite Under Biaxial Loading Conditions"
 Chair: Frederick M. Chester
 Co-Chair: Judith S. Chester

Chenrui Diao Atmospheric Sciences
 Dissertation: "The Time-Evolving Role of Anthropogenic Aerosols in Driving Global and Regional Climate Changes"
 Chair: Yangyang Xu

Xiliang Diao Oceanography
 Dissertation: "Open Ocean Polynyas and Antarctic Slope Current in High-Resolution Earth System Model Simulations"
 Chair: Achim Stoessel

James Michael Fiorendino Oceanography
 Dissertation: "Identifying Drivers of Toxic *Dinophysis* Bloom Dynamics Along the Texas Coast"
 Chair: Lisa Campbell

Victoria Lauren Ford Geography
 Dissertation: "The Role of Arctic Sea Ice Decline on a Changing Freshwater Budget"
 Chair: Oliver W. Frauenfeld

Bum Soo Kim Oceanography
 Dissertation: "Tracing Past Marine Methane Hydrate Dissociation and Methane Release Events Using Lipid Biomarkers and Isotopes"
 Chair: Yige Zhang

Szu-Ting Kuo Geology
 Dissertation: "Experimental Constraints on Heterogeneous Mechanical Properties of Rocks and Faults at Subduction Zones and Numerical Investigations of Their Roles in Megathrust Earthquake Characteristics"
 Chair: Benchun Duan

Xiaoqing Liu Oceanography
 Dissertation: "Making Sense of Climate Change Since the Late Miocene"
 Chair: Yige Zhang

Meng Lyu Oceanography
 Dissertation: "An Observational Study of the Impact of Gustiness on Air-Sea Momentum Fluxes and Waves Using a Novel Gustiness Metric"
 Chair: Henry Potter

- Sakib Mahmud Oceanography
 Dissertation: "Estimating Mixing Parameters Using Ocean Buoyancy
 Glider Hydrography and Vehicle Dynamics: Applications
 to Gulf Loop Current Structure"
 Chair: Steven Dimarco
- Eric James Peavey Geology
 Dissertation: "Outcrop to Subsurface Geochemical Characterization and
 Correlation of Upper Wolfcamp (Wolfcamp-A Equivalent)
 and Middle Wolfcamp (Wolfcamp-B Equivalent) Strata in
 the Southern Delaware Basin"
 Chair: Mike Pope
 Co-Chair: Art Donovan
- Yang Shi Atmospheric Sciences
 Dissertation: "Quantifying Dust Ice Nucleation Effects on Mixed-Phase
 Clouds and Contributions from Arctic Emissions and
 Agricultural Sources"
 Chair: Xiaohong Liu
- Richard Marshall Sullivan Oceanography
 Dissertation: "The North Atlantic Subtropical High Modulates Extreme
 Holocene Hydroclimate Variability in the Intra-American
 Seas"
 Chair: Peter Van Hengstum

School of Law

Juris Doctor

- Kailen W. Grant Law
- Dominique Lee Law
- Aaron Daniel Leiter Law

College of Liberal Arts

Doctor of Philosophy

- Maxwell B. Allamong Political Science
 Dissertation: "Three Essays on Disaffection in American Politics"
 Chair: Paul Kellstedt
- Michaela Baca English
 Dissertation: "'Thys boke ys myn': Evolutions of Queenly Literary
 Authority, 1460-1603"
 Chair: Britt Mize
 Co-Chair: Nandra Perry
- Xiaoxiao Bai Economics
 Dissertation: "Essays on Fiscal Policy Effects on the Macroeconomy"
 Chair: Sarah Zubairy

- Cassandra L. Baldwin Psychology
 Dissertation: "Against All Odds: Looking at Effects of Effort and Fatigue on Reward Sensitivity"
 Chair: Brandon Schmeichel
- Hannah K. Ballard Neuroscience
 Dissertation: "Brain Networks and Behavior in Aging Females: Impacts of Menopause, Sex Hormones, and Sleep Patterns"
 Chair: Jessica Bernard
- Laura Itzel Bernal Rios Hispanic Studies
 Dissertation: "Diversidad en los Libros del Rincón: Los Mensajes Tras el Discurso"
 Chair: Maria Quintana
- Jacob A. Canterbury Anthropology
 Dissertation: "Not By Maize Alone: Assessing The Effects Of Temporal, Geographic, And Cultural Variability On A Stable Isotope Mixing Model Of Ancient Maya Diets"
 Chair: Lori Wright
- Kimberly Angela Clough English
 Dissertation: "Women of Cover in Contemporary Transnational Literature"
 Chair: Marian Eide
- Alexander Michael Crist Philosophy
 Dissertation: "A Hermeneutics at the Limit: The Prelinguistic Testimony of Human Finitude"
 Chair: Theodore George
- Micheal Joseph Fasulo History
 Dissertation: "Struggling with Satan: U.S. Nuclear Strategy and Capabilities in the First Half of the 1970s"
 Chair: Jason Parker
- Angela Kay Gore Anthropology
 Dissertation: "Exploring the Lithic Landscape of the Nenana Valley, Interior Alaska"
 Chair: Kelly E. Graf
- Manuel A. Grajales II History
 Dissertation: "'Our Fight is Here': Coalition Networking and the Puerto Rican Anti-War Movement, 1940-1970"
 Chair: Felipe Hinojosa
- Bethany Luanne Harris Clinical Psychology
 Dissertation: "Examining the Validity of Two Types of Self-Administered Electrodermal Stimulation Behaviors as Behavioral Measures of Sensation Seeking in Emerging Adult Nicotine Users"
 Chair: Sherece Fields
- Jongwoo Jeong Political Science
 Dissertation: "Essays on Party Identification Among the New Americans in the Era of Immigration and Polarization"
 Chair: Paul Kellstedt

- Hwalmin Jin Political Science
 Dissertation: "Essays on Political Control Over the Military in Civil-Military Relations"
 Chair: Matthew C. Fuhrmann
 Co-Chair: Hyeran Jo
- Kendall Cheyenne John Clinical Psychology
 Dissertation: "Attachment Style and Treatment Seeking Behavior in the Telemental Health Context"
 Chair: Carly E. McCord
 Co-Chair: Gerianne Alexander-Packard
- Andrea Junqueira Machado Political Science
 Dissertation: "Why So Tough? Understanding the Politics Behind Aggressive Crime-Fighting Policies"
 Chair: Guy Whitten
- Haena Kim Psychology
 Dissertation: "Fractionating Selection History: Dissociable Components of Experience-Driven Attention"
 Chair: Brian A. Anderson
- Amy Joanne King Hispanic Studies
 Dissertation: "Quixotic Canonization: Ernesto 'Che' Guevara in Postmodern Fiction"
 Chair: Hilaire A. Kallendorf
- Anton Leontyev Psychology
 Dissertation: "Emotional Impulsivity and the Relationship between Impulsive Choice and Impulsive Action"
 Chair: Takashi Yamauchi
- Jesus Jaime Lopez Psychology
 Dissertation: "Towards the Development of an Ecologically Valid Assessment of Multitasking: A Series of Experiments"
 Chair: Joseph M. Orr
- Andrew Craig Ruarie McNeely Sociology
 Dissertation: "Over-Churched, Under-Fed: The Culture of Religiously-Affiliated Food Pantries in Brazos County, Texas"
 Chair: Sarah Gatson
- Namrata Nanavaty Clinical Psychology
 Dissertation: "Traumatic Life Experience and Sensitivity to Laboratory-Controlled Pain Stimuli: A Meta-Analysis"
 Chair: Vani Dawson Mathur
 Co-Chair: Mary W. Meagher
- Josephine Rose Nummi Sociology
 Dissertation: "21st Century Protests in Ferguson, Missouri: How Protest Policing Strategies Lead to Technological Innovations in Social Movement Communication"
 Chair: Joe Feagin
- Tristin Nyman Clinical Psychology
 Dissertation: "Time Lag as a Moderator of Parental Control Effects on Child Anxiety Outcomes"
 Chair: Robert Heffer
 Co-Chair: Rebecca Brooker

- April M. Paluka History
 Dissertation: "Saving the Nazca Lines: An Ancient Site as a Post-WWII Battleground"
 Chair: Sonia Hernandez
- Michelle Christine Phillips Political Science
 Dissertation: "Prime Minister Discretion and Government Behavior"
 Chair: David Fortunato
 Co-Chair: Jose Cheibub
- James Hunter Plummer English
 Dissertation: "Public Spaces / Private Lives: Fictionalizing the Female Journalist, 1880-1946"
 Chair: David McWhirter
- David Lee Pritchard, Jr. Economics
 Dissertation: "Three Essays in Applied Microeconomics"
 Chair: Jason M. Lindo
- Robin Rose Saywitz Political Science
 Dissertation: "It Takes Two: Gender, Governance Institutions, and Public Administration Labor Markets"
 Chair: Scott J. Cook
 Co-Chair: Manuel P. Teodoro
- Hedieh Tajali Economics
 Dissertation: "Essays on Public & Health Economics"
 Chair: Jonathan Meer
- Shuo Tian Economics
 Dissertation: "Three Essays on Structural Auction Models"
 Chair: Yonghong An
 Co-Chair: Zheng Fang
- Michael Sean Totty Neuroscience
 Dissertation: "Thalamic Coordination of Prefrontal-Hippocampal Interactions Underlying the Retrieval of Fear Extinction Memories"
 Chair: Stephen Maren
- Shih-Keng Yen Sociology
 Dissertation: "Social Dynamics of Geographic Mobility"
 Chair: Ernesto Amaral
- Ungyung Yi English
 Dissertation: "Exoteric Confession and Sad Literary Figures in Postwar America: Elizabeth Bishop, Anne Sexton, and Frank O'Hara"
 Chair: Shawna Ross
- Felicia Nicole York Communication
 Dissertation: "Capturing Black Maternal Voices: A Culture-Centered Approach to Understanding the Health Care Communicative Experiences of African American Mothers"
 Chair: Lu Tang

College of Medicine

Doctor of Philosophy

- Ann Cassany Anselme Medical Sciences
 Dissertation: "Tumor Microenvironment Remodeling in Triple Negative Breast Cancer Using Combination Therapy: One Size Does Not Fit All"
 Chair: David P. Huston

- Bhagath Chirra Medical Sciences
 Dissertation: "Novel Antimicrobials and Drug Delivery Systems to Treat Multidrug Resistant Bacterial Infections"
 Chair: Carolyn L. Cannon

- Liam Matthew Guthrie Medical Sciences
 Dissertation: "Elesclomol Alleviates Menkes Pathology in Mice by Delivering Cu to Brain Cytochrome C Oxidase"
 Chair: Gregg Wells
 Co-Chair: James Sacchetti

- Jessica Lynn Huebschman Neuroscience
 Dissertation: "FMRP's Striatal Function: Implications for Synaptic Plasticity, Fragile X Syndrome, and Substance Use Disorders"
 Chair: Laura N. Smith

- Simin Pan Medical Sciences
 Dissertation: "A Therapeutic Strategy Targeting the Dickkopf Wnt Signaling Pathway Inhibitor 1 (Dkk-1) In Osteolytic Osteosarcoma Results In Tumor Suppression And Bone Protection"
 Chair: Carl A. Gregory

- John Culver Taylor Medical Sciences
 Dissertation: "Streptococcus gallolyticus subspecies gallolyticus: A Mechanism of Virulence"
 Chair: Yi Xu

- Linying Zhang Medical Sciences
 Dissertation: "Genome-Wide Analysis of DNA Replication Origins in *Tetrahymena Thermophila*"
 Chair: Geoffrey Kapler

Irma Lerma Rangel College of Pharmacy

Doctor of Pharmacy

- Quincy Uchenna Madunezim Pharmacy

School of Public Health

Doctor of Public Health

- Leanne Sue Fawkes Public Health Sciences
 Dissertation: "Residential Creosote Exposure: An Assessment of
 Community Health and Environmental Health Risks in
 the Greater Fifth Ward, Houston, Texas"
 Chair: Garrett T. Sansom
 Co-Chair: Thomas J. McDonald
- Md Mahbub Hossain Public Health Sciences
 Dissertation: "Informal Caregiving in the Digital Age"
 Chair: Ping Ma
 Co-Chair: Ellisa Jones-Mckyer
- Alyssa Danielle McNulty-Nebel Public Health Sciences
 Dissertation: "A Bird's Eye View of COVID-19 During the First 18
 Months of a Pandemic in a College City"
 Chair: Rebecca Fischer

College of Science

Doctor of Philosophy

- Weston Theodore Cotter Baines Mathematics
 Dissertation: "Inverse Problems Arising in Medical, LIDAR, and
 Homeland Security Imaging"
 Chair: Peter Kuchment
- Aayushi Bajpayee Chemistry
 Dissertation: "Structuring Ceramics Across Length Scales to Modulate
 Solid/ Liquid Interfaces"
 Chair: Sarbajit Banerjee
- Marko Baloh Microbiology
 Dissertation: "The Early Stages of *Clostridioides difficile* Spore Germina-
 tion"
 Chair: Joseph A. Sorg
- Richard Stephen Bovio Ecology and Evolutionary Biology
 Dissertation: "Microevolution in Natural and Experimental Hybrid
 Populations of Swordtail Fish"
 Chair: Gil Rosenthal
 Co-Chair: William Murphy
- Wenmiao Chen Chemistry
 Dissertation: "Postsynthetic Modification of UIO-Type Metal-Organic
 Frameworks (MOFs) for Advanced Heterogeneous
 Catalysis"
 Chair: Hongcai Zhou
 Co-Chair: Sherzod T. Madrahimov
- Hsu-Cheng Chiang Chemistry
 Dissertation: "High Gas Barrier Polyelectrolyte Complex Thin Films"
 Chair: Jaime Grunlan

- Eric J. Chuu Statistics
 Dissertation: "Approximate Methods for Marginal Likelihood Estimation"
 Chair: Anirban Bhattacharya
 Co-Chair: Debdeep Pati
- Jonathan Hall Cohn Astronomy
 Dissertation: "Exploring the Extremes of Galaxy Evolution: Progenitors of Star-Forming Galaxies and Relics of Quiescent Galaxies"
 Chair: Jonelle Walsh
- Patrick Ding Statistics
 Dissertation: "Multivariate Normal Probability, Truncated Sampling, and Approximation for Statistical Modeling"
 Chair: Debdeep Pati
- Hannah Fay Drake Chemistry
 Dissertation: "Investigations into the Enhanced Gas Storage Capabilities of Photoresponsive and Redox Active Metal-Organic Frameworks"
 Chair: Hongcai Zhou
- Katelynn Jane Edgehouse Chemistry
 Dissertation: "Encapsulation of Active Liquids Using a Pickering Emulsion Platform"
 Chair: Emily Pentzer
- Bradford Alexander Garcia Mathematics
 Dissertation: "The Second Moment of Dirichlet L -functions Along a Coset"
 Chair: Matthew Young
- Indrajit Ghosh Statistics
 Dissertation: "Exploration of Densities from a Bayesian Perspective"
 Chair: Debdeep Pati
 Co-Chair: Anirban Bhattacharya
- Zehua Han Physics
 Dissertation: "Raman Spectroscopy of Mold Conidia"
 Chair: Alexei Sokolov
- Taylor Alexandra Hutchison Astronomy
 Dissertation: "Peering Through the Cosmic Fog: Spectroscopy of Galaxies During Reionization"
 Chair: Casey Papovich
- Brian Jeremy Kidd Statistics
 Dissertation: "Directed Graphs and Applications"
 Chair: Yang Ni
 Co-Chair: Matthias S. Katzfuss
- Anupam Kundu Statistics
 Dissertation: "Estimation of Jointly Constrained Mean-Covariance of Multivariate Normal Distribution"
 Chair: Mohsen Pourahmadi
- Ming-Che Lee Physics
 Dissertation: "Fingerprint-Region and Low-Frequency Raman Spectroscopy of Biomolecules"
 Chair: Alexei Sokolov
 Co-Chair: Zhenhuan Yi

- Guanxun Li Statistics
 Dissertation: "New Variational and Sampling Algorithms for Large-scale Bayesian Model Selection Problems"
 Chair: Quan Zhou
 Co-Chair: Jianhua Huang
- Huiling Liao Statistics
 Dissertation: "Acquisition-Guided Sampling-Based Approach for Detection of Regions of Interest"
 Chair: Jianhua Huang
 Co-Chair: Xiaoning Qian
- Aldrin Benzon Lugena Biology
 Dissertation: "Chasing Clock-Controlled and Migratory Genes in the Monarch Butterfly Brain Using Omics"
 Chair: Christine Merlin
- Jacob Wayne Mashburn Mathematics
 Dissertation: "Distributions and von Neumann Algebras Over Fock Spaces with Depth-Two Action"
 Chair: Michael Anshelevich
- Anushree Mondal Chemistry
 Dissertation: "Thiamin Biosynthesis in Yeast – Mechanistic Studies on THI5, A Remarkable Suicide Enzyme"
 Chair: Tadhg Begley
- Jared S. Morse Chemistry
 Dissertation: "Phage Display with an Expanded Genetic Code for the Discovery of Peptide Inhibitors"
 Chair: Wenshe Liu
- Debsuvra Mukhopadhyay Physics
 Dissertation: "Quantum Photonics in Waveguide-Integrated Architectures"
 Chair: Girish Agarwal
- Brianna Lynn Myre Biology
 Dissertation: "Energy Resource Allocation and Use in Reproducing Olive Ridley Sea Turtles"
 Chair: Duncan Mackenzie
- Balakrishnan Nagaraj Physics
 Dissertation: "De Sitter Vacua and Inflation in No-Scale Supergravity"
 Chair: Dimitri Nanopoulos
- Maelani N. Negrito Chemistry
 Dissertation: "Controlling the Properties of Graphene via Tailored Substrate Interactions"
 Chair: James Batteas
 Co-Chair: Matthew T. Sheldon
- Kristyn Jae Pantoja Statistics
 Dissertation: "Methods for Model Discrimination and Evaluation: An Experimental Design, a Microbiome Modeling Framework, and a Measure of Prior Impact"
 Chair: Huiyan Sang
 Co-Chair: David E. Jones

- Sandipan Pramanik Statistics
 Dissertation: "Efficient Choice of Priors for Bayesian Hypothesis Tests in Psychology and for Dynamic Modeling of Zero-Inflated Directed Networks"
 Chair: Valen Johnson
 Co-Chair: Yang Ni
- Tian Qiao Chemistry
 Dissertation: "Synthesis of Lead Halide Perovskite Nanocrystals for Studying Their Optical, Magnetic and Charge Transfer Properties"
 Chair: Dong Son
- Josephina Amalia Rau Neuroscience
 Dissertation: "Morphine Undermines Recovery of Function After a Spinal Cord Injury: The Role of Glial and Kappa Opioid Receptor Activation"
 Chair: Michelle Schapiro
- Alexander Herbert Riley Astronomy
 Dissertation: "Dynamics All the Way Down: The Satellites, Streams, and Stellar Halo of the Milky Way in the Gaia Era"
 Chair: Louis E. Strigari
- Luther Dale Rinehart Mathematics
 Dissertation: "Uniform Acceleration Radiation with a Proca Field"
 Chair: Stephen Fulling
- Gabrielle Risica Chemistry
 Dissertation: "Advanced Molecular Design for Heterometallic Single Molecule Magnets: Elucidating the Magnetic Properties of Lanthanide-[1]metallo-cyclophane Complexes"
 Chair: Michael Nippe
- David Alejandro Santos Chemistry
 Dissertation: "Bridging Atomistic, Mesoscale, and Systems Perspectives in the Design of Vanadium-Based Energy Storage Technologies"
 Chair: Sarbajit Banerjee
- Samantha Rose Schrecke Chemistry
 Dissertation: "K2P Channel Lipid Binding and Structural Impacts"
 Chair: Arthur Laganowsky
- Gerard Pierre Van Trieste III Chemistry
 Dissertation: "Spectroscopic and Structural Characterization of Reactive Metal Nitrenoids"
 Chair: David C. Powers
- Jiayi Wang Statistics
 Dissertation: "Reproducing Kernel Hilbert Space Modeling in Functional Data Analysis and Causal Inference"
 Chair: Raymond Ka Wai Wong
- Jizhou Wang Physics
 Dissertation: "Molecular-Spectroscopic Techniques for Label-Free Imaging"
 Chair: Alexei Sokolov

- John Munroe Weeks Mathematics
 Dissertation: "Property of Rapid Decay and Free Wreath Products"
 Chair: Eric Rowell
- Taveechai Wititsuwannakul Chemistry
 Dissertation: "Computational Investigations of Chiral-at-Metal Complexes and Their Enantioselective Reactions"
 Chair: John Gladysz
 Co-Chair: Michael Hall
- Zhaojie Xu Physics
 Dissertation: "Perturbative/Non-Perturbative Aspects of Topological String Theory and Condensed Matter Physics"
 Chair: Dimitri Nanopoulos
 Co-Chair: Katrin Becker
- Bin Yang Physics
 Dissertation: "Thermal Spin Current Injection into Graphene and Deep Learning Potential in Graphene"
 Chair: Winfried Teizer
- Dongbang Yuan Statistics
 Dissertation: "Matrix Decomposition for Multi-view Data"
 Chair: Irina Gaynanova
- Bowen Zhang Chemistry
 Dissertation: "Density Functional Theory Calculations of Iron Porphyrin, Dimetallo-Tetrylene and Astatine Systems: Revealing the Electronic Structure and the Reaction Mechanism"
 Chair: Michael Hall
- Fangting Zhou Statistics
 Dissertation: "Causal Graphical Models: Heterogeneous Data Meet Structure Identification"
 Chair: Yang Ni
- Lin Zhu Statistics
 Dissertation: "Application and Fast Inference Method of Spatial Point Patterns"
 Chair: Huiyan Sang
 Co-Chair: Mikyoung Jun

College of Veterinary Medicine and Biomedical Sciences

Doctor of Philosophy

- Caitlin Patricia Castaneda Biomedical Sciences
 Dissertation: "Dissecting Genomic Factors of Stallion Fertility"
 Chair: Terje Raudsepp
- Xin Fang Biomedical Sciences
 Dissertation: "Using Conditional Gene Manipulation to Study Reproductive Physiology and Pathology"
 Chair: Qinglei Li

- Juan Camilo Hernandez Aviles Biomedical Sciences
 Dissertation: "Studies on the Acrosomal Function of Sperm from Fertile and Subfertile Stallions"
 Chair: Charles Love
- Patrícia Eri Ishii Miyagawa Biomedical Sciences
 Dissertation: "Intestinal Permeability in Dogs with Chronic Enteropathy"
 Chair: Jan Suchodolski
 Co-Chair: Jonathan A. Lidbury
- Susanne Kathryn Kahn Biomedical Sciences
 Dissertation: "Passive Immunization with Hyperimmune Plasma to Protect Foals Against *Rhodococcus equi* Pneumonia"
 Chair: Noah Cohen
- Koedi Savannah Lawley Biomedical Sciences
 Dissertation: "Characterization of the Neuropathological Effects of Theiler's Murine Encephalomyelitis Virus in a Genetically Diverse Mouse Panel"
 Chair: Candice L. Brinkmeyer Langford
 Co-Chair: Raquel R. Rech
- Danielle Renee Michaud Biomedical Sciences
 Dissertation: "The Grisly World of MYOSIN-5A: Griscelli Syndrome Type 1 and the Search for an Effective Gene Therapy"
 Chair: Peter P. Nghiem
- Nan Ni Biomedical Sciences
 Dissertation: "The Role of TGF β Signaling and Epigenetic Regulators in the Female Reproductive Tract"
 Chair: Qinglei Li

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.

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.

College of Architecture. The hexagonal symbol is composed of three colors that represent the solid foundation of the college. Our Aggie core values (maroon) connect limitless possibilities and opportunities in learning, scholarship, and engagement for the college (blue) with the energy of creativity, innovation, and design to address them (yellow). The striped ribbon represents the drivers of the college's vision of quality of life, place, and human endeavors which is intertwined with a solid ribbon that represents where this vision is applied: the natural, built, and virtual environments. The six segments defined by the alternating striped and solid ribbon represent the six disciplinary domains of the college: urban planning, architecture, landscape architecture, land and property development, construction science, and visualization.

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.

College 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, Asclepius. Included in the emblem, are 32 leaves and 20 berries representing both the primary and secondary teeth.

College 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.

College of Geosciences. The white field reveals a yellow sun representing our surrounding atmosphere. The mountain peaks and the horizontal band of golden land represent the lithosphere. The banded waves of white signify the hydrosphere. The atmosphere, lithosphere and hydrosphere form the total environment for life in our world.

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.

College of Liberal Arts. The golden torch symbolizes the various disciplines lighting the path to our goal, "Knowledge for Life." The circle of blue, the traditional color of knowledge, represents the college's unending, unbroken commitment to scholarship, learning, and responsible citizenship.

College 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.

College 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.

Irma Lerma Rangel College 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.

College of Science. This symbol's segments represent the five departments of the College of Science--Biology, Chemistry, Mathematics, Physics and Astronomy, and Statistics. The interweaving of each depicts their close relationship to each other. The inner quilting represents the intellectual search in science and its continuing growth.

College 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.



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.



The Association
OF FORMER STUDENTS®

TEXAS A&M UNIVERSITY®

The Association of Former Students is **HERE** for Aggies during their days as students and former students, **THERE** for Aggies as they make their way around the world and **EVERYWHERE** that the Aggie Network needs us to be.

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 will be available for download on the graduation website the week after ceremonies have been held at <https://graduation.tamu.edu/Home/Ceremonial-Symbols-History/Program-Archives>.