



TEXAS A&M UNIVERSITY
Commencement

August 7, 2021, 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 7, 2021, 10 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

Recessional

Faculty Marshals

Mace Bearer

Dr. Blanca Lupiani, Dean of Faculties and Associate Provost

Stage Party

Dr. George B. Cunningham, Senior Associate Dean

Announcers

Ms. Nora Cargo, Director, Scholarships & Financial Aid

*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
- Ms. Matilin "Mati" Rigsby (Student Regent) Gainesville

Chancellor

- Mr. John Sharp Placedo

Texas A&M University Administrative Officers

- President Dr. M. Katherine Banks
- Provost and Executive Vice President (interim) Dr. Mark H. Weichold
- Vice Provost for Faculty Affairs and
Interdisciplinary Initiatives (interim) Dr. Patrick Louchouart
- Dean, College of Agriculture and Life Sciences Dr. Patrick J. Stover
- Dean, College of Architecture Dr. Jorge A. Vanegas
- Dean, Mays Business School (interim) Dr. R. Duane Ireland
- Dean, College of Dentistry (interim) Dr. Lynne A. Opperman
- Dean, College of Education and
Human Development Dr. Joyce M. Alexander
- 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 Mr. Robert B. Ahdieh
- Dean, College of Liberal Arts Dr. Pamela R. Matthews

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, Texas A&M University
Libraries (interim) Dr. Julie A. Mosbo Ballestro
Dean and Chief Operating Officer,
Texas A&M University at Qatar Dr. César O. Malavé
Dean of Faculties and Associate Provost Dr. Blanca Lupiani
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, Texas A&M Health and
Vice President Dr. Jon E. Mogford
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 (interim) Dr. Edwin L. Pierson
Vice President and
Associate Provost for Diversity (interim) Dr. Annie S. McGowan
Vice President for Brand Development Mr. Shane Hinckley
Vice President for Development Mr. Andy Acker
Vice President for Economic Development and
Dean, School of Innovation Dr. Andrew P. Morriss
Vice President for Enrollment and
Academic Services Mr. Joseph P. Pettibon II
Vice President of Facilities, Safety,
and Security Mr. Stephen B. Franklin
Vice President for Government Relations Mr. Norman R. Garza, Jr.
Vice President for Human Resources and
Organizational Effectiveness Dr. Jeffrey A. Risinger
Vice President for Research (interim) Dr. Jack G. Baldauf
Vice President for
Student Affairs (interim) Brigadier General Joe E. Ramirez, Jr. (Ret.)
Vice President and Chief Operating Officer,
Texas A&M University at Galveston Colonel Michael E. Fossum (Ret.)
Associate Provost for Undergraduate Studies Dr. Ann L. Kenimer
Associate Provost for Academic Affairs and
Student Success Dr. Timothy P. Scott
Chief Compliance Officer Mr. Kevin P. McGinnis
Commandant of the
Corps of Cadets (interim) Colonel Byron F. Stebbins (Ret.)

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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 Education

Michaëlle Blake CokerAgricultural Education
Record of Study: "Bridging the Gap Between Equine Experts and General
Horse Owners: A Qualitative Study"
Chair: Julie F. Harlin

Kellie Jean SealsAgricultural Education
Record of Study: "The Effects of Authentic Experiential Learning and
Student-Teacher Relationships on Situational Career
Interest of Rural Youth: A Mixed Methods Intervention
Approach"
Chair: Amy Boren-Alpizar
Co-Chair: Gary E. Briers

Miraj Rhiannon Rose WallaceAgricultural Education
Record of Study: "Factors Affecting Female Secondary Agricultural
Educator Job Satisfaction in Arizona"
Chair: John Elliot
Co-Chair: Courtney A. Meyers

Doctor of Philosophy

Jason Kenneth AllenBiochemistry
Dissertation: "Understanding How Endosomal Membrane Permeabi-
lizing Agents Can Be Improved for Efficient Intracellular
Delivery"
Chair: Hays S. Rye

Gessica Araujo FrancoPhysiology of Reproduction
Dissertation: "Investigating the Sire Contribution to Embryonic
Mortality in Cattle"
Chair: Ky G. Pohler

Nasta BabiryeSoil Science
Dissertation: "The Effect of Oilfield Brine on Soil Properties and Plant
Growth"
Chair: Paul S. Schwab
Co-Chair: Julie A. Howe

Karen Mynhier BeathardNutrition
Dissertation: "Nutrition, Vision, and Cognition in Health: Egg
(Ionhealth-Egg) Study"
Chair: Steven Riechman

- Ariel Nicole Bergeron Poultry Science
Dissertation: "Evaluate the Effects of Fat Sources and Different Calcium Solubility on Broiler Performance, Nutrient Absorption, Intestinal PH, and Bone Development"
Chair: Audrey P. McElroy
- Michael Alexander Black Agricultural Economics
Dissertation: "Essays on the Benefits of Soil and Water Conservation"
Chair: Richard Woodward
- Karely Cantu Poultry Science
Dissertation: "The Enumeration and Mitigation of Microbial Loads on Hatchling Eggs, Embryos and Newly Hatched Chicks"
Chair: Craig D. Coufal
- Erika Leonor Garcia Villatoro Nutrition
Dissertation: "Role of the Aryl Hydrocarbon Receptor Activity in Intestinal Epithelial Cells in the Formation of Colonic Tertiary Lymphoid Tissue and Colorectal Cancer Development"
Chair: Clinton Allred
- Gabriela Geraldo Mendes Genetics
Dissertation: "Engineering Protein-Based Materials for Neovascularization"
Chair: Sarah Bondos
- Benjamin Ghasemi Jalal Abadi Wildlife and Fisheries Sciences
Dissertation: "Applying the Theories of Identity in the Human Dimensions of Wildlife Conservation"
Chair: Gerard Kyle
- Reagan Wesley Hejl Water Management and Hydrological Science
Dissertation: "Improving Irrigation Efficiency in Sand-Capped Turfgrass Systems and Urban Lawns"
Chair: Benjamin G. Wherley
- Rachel Anne Innocenti Ecosystem Science and Management
Dissertation: "Ecosystem-Based Solutions to Dune and Beach Erosion"
Chair: Russell A. Feagin
- A S M Faridul Islam Plant Breeding
Dissertation: "Genome-Wide Association Mapping for Rice Grain Quality and Nutrition"
Chair: Michael J. Thomson
- Demetrios Harry Kostomiris Biochemistry
Dissertation: "Application of Mechanistic Enzymology in Identifying Inhibitors of Critical Enzymes from Human Pathogens"
Chair: Jorge Cruz-Reyes
- Taniya Jayani Koswatta Agricultural Leadership, Education, and Communications
Dissertation: "Public Perception of Science Communication: Factual vs. Nonfactual Information About Organic Foods"
Chair: Gary Wingenbach

- Pierre Wai Kit Lau Entomology
 Dissertation: "Honey Bee Foraging Preferences and Nutritional Ecology"
 Chair: Juliana Rangel Posada
- Keehyun Lee Agricultural Economics
 Dissertation: "Studies Concerning Spending Behavior of Households by Store Type and Income Level and Effects of Changes in Immigration Policy on State-Level WIC Participation Rates"
 Chair: Oral Capps
- Maria Danielle Leon Recreation, Park and Tourism Sciences
 Dissertation: "Examining the Application of Social Justice Youth Development in Juvenile Justice Settings Using a Mestiza Methodology"
 Chair: Corliss W. Outley
- Lin Liu Nutrition
 Dissertation: "Role of Macrophage Osr1 in Liver Inflammation and Nonalcoholic Steatohepatitis (NASH)"
 Chair: Linglin Xie
- Pulkit Marwah Agribusiness and Managerial Economics
 Dissertation: "Three Essays on Consumer Research and Market Analysis for Agricultural Products: An Intersection of Agriculture, Business, and Economics"
 Chair: Yu Zhang
- Drake Michael Mellott Biochemistry
 Dissertation: "Drug Discovery and Kinetics in *Mycobacterium tuberculosis*, *Trypanosoma cruzi*, and SARS-CoV-2"
 Chair: Frank Raushel
- Jales Mendes Oliveira Fonseca Plant Breeding
 Dissertation: "Assessing the Genetic Variation, Performance, and Genomic Prediction of Grain Sorghum Hybrids Developed from U.S. Public Breeding Programs"
 Chair: William L. Rooney
- Ran Meng Biochemistry
 Dissertation: "Structural Basis for Adsorption of Single-Stranded RNA Bacteriophages"
 Chair: Ryland Young
- Shakirah Nakasagga Plant Breeding
 Dissertation: "Estimating Hydrogen Cyanide Potential, Biomass Yield and UAS-Based Regrowth Assessment in Perennial Sorghum and Zea Derived Lines"
 Chair: Seth Murray
 Co-Chair: William L. Rooney
- Joel Andrew Oliver Biochemistry
 Dissertation: "On the Importance of Watching Grass Grow: Plant Design and Internode Growth and Development in Sorghum Bicolor"
 Chair: John Mullet

- Michaela Elizabeth Pawluk Wildlife and Fisheries Sciences
Dissertation: "Climate Change Effects on Fish Population and
Assemblage Dynamics in the Bays of Texas"
Chair: Masami Fujiwara
- Megan Rose Pineda Poultry Science
Dissertation: "Characterization of Avian Immunity and *Salmonella*
Intervention Strategies"
Chair: Morgan B. Farnell
- Erin Ann Posey Animal Science
Dissertation: "Effects of Glycine Supplementation on Creatine
Synthesis and Growth of Intrauterine Growth Restricted
Pigs (*Sus scrofa domestica*) Post-Weaning"
Chair: Guoyao Wu
Co-Chair: Fuller Bazer
- Ze Shen Agribusiness and Managerial Economics
Dissertation: "Price Analysis and Risk Management in Cryptocurrency
Market"
Chair: David Leatham
- Phillip Thomas Shults Entomology
Dissertation: "A Study of *Culicoides* Biting Midges in the Subgenus
Monoculicoides: Population Genetics, Taxonomy,
Systematics, and Control"
Chair: Edward L. Vargo
- Phillip Steven Steigerwald Ecosystem Science and Management
Dissertation: "Management of Woody Plant Encroachment: Decision
Theory, Ecological Theory, & Evaluation"
Chair: Merwyn Kothmann
- Alex Dale Sullins Recreation, Park and Tourism Sciences
Dissertation: "Mediating the Relationship Between Motivational
Climate and Intrinsic Motivation in Collegiate Physical
Activity Courses"
Chair: Corliss W. Outley
Co-Chair: Andrea Ettekal
- Manish Thakran Molecular and Environmental Plant Sciences
Dissertation: "*Sorghum bicolor* Genes Involved in Raffinose Oligosac-
charide Metabolism"
Chair: John Mullet
- Jeffrey Frederick Wahl Recreation, Park and Tourism Sciences
Dissertation: "The Ongoing Battles of the Little Bighorn: An Explora-
tion of Conflict in Battlefield Heritage Tourism"
Chair: Tazim B. Jamal
- David R. Walther Agricultural Leadership, Education, and
Communications
Dissertation: "A Qualitative Study of Mass Media Reports about Honey
Bee Decline and Beekeeper Practices"
Chair: Tracy A. Rutherford

- Crystal Wright Entomology
 Dissertation: "Helpers and Hindrances: The Role of Ecological Factors Mediating Future Biological Control of Sorghum Aphids"
 Chair: Raul Medina
 Co-Chair: Keyan Zhu-Salzman
- I-Fan Wu Biochemistry
 Dissertation: "Insights from Systematically Analyzing Microbial Phenotypic Profiles"
 Chair: Margaret Glasner
- Bing Xu Plant Pathology
 Dissertation: "Develop *Rhodococcus opacus* and *Pseudomonas putida* into Platforms for Lipid and Polyhydroxyalkanoate (PHA) Production"
 Chair: Yuan Dai
- Lizhihan Yu Agricultural Economics
 Dissertation: "Case Studies on Medical Laboratory Decision Optimization and Grass-Fed Beef Market Penetration"
 Chair: Bruce McCarl
- Ping Yu Horticulture
 Dissertation: "Biochar as a Way to Increase Environmental Friendliness for Potted Plants Production and Disease Suppression"
 Chair: Mengmeng Gu

College of Architecture

Doctor of Philosophy

- Mohammadmehdi Danesh Architecture
 Dissertation: "The Optimization of Energy Performance of Double-Skin Facade in High Rise Building: Using Building Information Modeling by a Parametric BIM-Base Plugin"
 Chair: Stephen Caffey
 Co-Chair: Edelmiro Escamilla
- You Joung Kim Urban and Regional Science
 Dissertation: "Pedestrian Activity, Outdoor Thermal Comfort and Urban Street Design: Case Studies for the Seoul-lo 7017 in Seoul and the High Line in New York City"
 Chair: Robert D. Brown
- Kanghyun Lee Urban and Regional Science
 Dissertation: "Urban Landscape Design for Improving Thermal Environments and Protecting Human Health"
 Chair: Robert D. Brown
- Clare S. Losey Urban and Regional Science
 Dissertation: "Much Ado About Affordability: Examining the Intersection Between Purchase Affordability and Neighborhood Opportunity"
 Chair: Shannon S. Van Zandt

- Lingyi Qiu Architecture
Dissertation: "Impacts of Housing and Neighborhood Environments on Elementary School Children's Independent Mobility"
Chair: Xuemei Zhu
- Anusree Saseendran Architecture
Dissertation: "Community Engagement and Outreach in the Construction Industry"
Chair: Stephen Caffey
Co-Chair: Edelmiro Escamilla
- Ki Jin Seong Urban and Regional Science
Dissertation: "Living with Floods: Longitudinal Impact of Floodplain Buyouts on Neighborhood Change"
Chair: Shannon S. Van Zandt
- Fatemeh Shahsavari Architecture
Dissertation: "Integrating Probabilistic Methods into BIM and Parametric Modeling for Performance-Driven Building Design and Risk Assessment"
Chair: Wei Yan
Co-Chair: Charles Culp
- Huaqing Wang Urban and Regional Science
Dissertation: "Effects of Greenspace Morphology on Population Health"
Chair: Louis Tassinary
Co-Chair: Galen D. Newman

Mays Business School

Doctor of Philosophy

- Yuna Choe Business Administration
Dissertation: "Essays on Mental Budgeting and Consumer Spending Behavior"
Chair: Christina S. Kan
Co-Chair: Haipeng Chen
- Yiwen Li Business Administration
Dissertation: "Light the Dark: Voluntary Disclosure and Equity Trading Venue Choice"
Chair: Korok Ray
Co-Chair: Anwer Ahmed
- David Walter Sullivan Management
Dissertation: "Does Something Seem Wrong? Misfit During the Job Search"
Chair: Murray Barrick
- Elizabeth June Tori Business Administration
Dissertation: "Rival Firms' Voluntary Disclosure Response to a Competitor's Financial Distress"
Chair: Senyo Tse

Junhyok Yim Management
 Dissertation: "What Are You Talking About? Follower Construal Level
 and Cognitive Appraisals of Visionary Leadership"
 Chair: Stephen H. Courtright
 Co-Chair: Anthony Klotz

College of Dentistry

Doctor of Philosophy

Rajay Agnel Daniel Kamath Oral Biology
 Dissertation: "Ephrin-B Signaling in Calvarial Bone Formation"
 Chair: M. Douglas Benson

Yongxi Liang Oral Biology
 Dissertation: "Sharpey's Fibers and Periodontal Ligament
 Regeneration"
 Chair: Xiaohua Liu

College of Education and Human Development

Doctor of Education

Michael Anthony Cardona Educational Administration
 Record of Study: "A Case Study of Intra-District School Choice Policy in a
 Large Urban District"
 Chair: Mario Torres

Penelope Wyma Flores Curriculum and Instruction
 Record of Study: "Teachers' Perspectives of the Impact of Social Emotional
 Learning on Student Behavior"
 Chair: James D. Laub
 Co-Chair: Michelle M. Kwok

Ashley Andrea Leverett Curriculum and Instruction
 Record of Study: "Black Smart: Examining a Gifted Education Program's
 Outreach and Engagement to Empower Parents of Gifted
 Black Students"
 Chair: Trina J. Davis
 Co-Chair: Monica V. Neshyba

Kasey Leah Lowry Curriculum and Instruction
 Record of Study: "A Case Study of the Leadership Styles a Highly Effective
 Principal Employed to Cultivate Teacher Collective
 Efficacy"
 Chair: James D. Laub
 Co-Chair: Michelle M. Kwok

Andrew Jace McMullin Curriculum and Instruction
 Record of Study: "Induction, Mentoring, and Coaching of Novice
 Performance Arts Educators"
 Chair: Sharon D. Matthews
 Co-Chair: Radhika Viruru

Lanora McNeil Curriculum and Instruction
Record of Study: "Does Social Milieu Impact Retention and Separation at High School X? Special Education Teachers Speak!"
Chair: Trina J. Davis
Co-Chair: Monica V. Neshyba

Doctor of Philosophy

Lobat Asadi Curriculum and Instruction
Dissertation: "Art, Learning and Literacy: Parallel Monsters from Borderland Spaces"
Chair: Cheryl J. Craig
Co-Chair: Yolanda Padron

Manjari Banerjee Curriculum and Instruction
Dissertation: "Teacher Professional Development for the Digital Age: Making Technology Integration Possible"
Chair: Hersholt Waxman

Aaron Rachelle Campbell Educational Psychology
Dissertation: "Culturally Responsive Positive Behavioral Support for African American Learners at Risk for Emotional and Behavioral Disorder"
Chair: Julie Thompson

Shannon Leah Clark School Psychology
Dissertation: "How Mother's Attitudes and Communication Affect Body Image Satisfaction Status of Daughters"
Chair: Cynthia Riccio

Amin Davoodi Curriculum and Instruction
Dissertation: "Promoting Equity and Access for English Language Learners and Home-Bound Students: From Bilingual Education to Robot Assisted Learning"
Chair: Cheryl J. Craig
Co-Chair: Rafael Lara-Alecio

Sidai Dong Counseling Psychology
Dissertation: "Alpha and Beta Factors of Resilience and the Mediating Effects of Coping and Problem-Solving Styles on Family Caregiver Adjustment"
Chair: Timothy Elliott

Amir Fidai Curriculum and Instruction
Dissertation: "OpenBrick: Encouraging Equity in STEM Education Through Open Source Educational Robotics"
Chair: Robert Capraro
Co-Chair: Mary Capraro

Derek Charles Ford Educational Human Resource Development
Dissertation: "The Graying of the Oil and Gas Industry in the United States: Knowledge Transfer Perceptions and Experiences in a Multigenerational Workforce"
Chair: Larry M. Dooley

- Deyanira Garcia Zea Educational Human Resource Development
 Dissertation: "Barriers and Facilitators to Venezuelan Refugee Professionals' Career Development in South Florida: A Case Study"
 Chair: Larry M. Dooley
- Zihan Geng Curriculum and Instruction
 Dissertation: "Exploring the Effects of Task Complexity on Interaction and L2 Performance with Math Word Problems in FTF and SCMC Environments"
 Chair: Zohreh Eslami
- Alyssa Alinda Gonzalez School Psychology
 Dissertation: "Effects of Student Belonging and Engagement in an At-Risk Population Over Time"
 Chair: Cynthia Riccio
- Eliel Hinojosa, Jr. Curriculum and Instruction
 Dissertation: "Bridges or Barriers: Making Sense of Principals' Change Facilitator Style Variation in Three Elementary Schools"
 Chair: Lynn Burlbaw
- Meghan Ann Hokom Educational Administration
 Dissertation: "English Learners and Students with Disabilities: A Texas School District Perspective"
 Chair: Mario Torres
 Co-Chair: Beverly Irby
- Ehikowoicho Elizabeth Idoko Health Education
 Dissertation: "Exploring Mental Health Literacy Among Black and African American Adults in Predominantly White Higher Education Institutions"
 Chair: Idethia S. Harvey
- Nuzulul Isna Educational Human Resource Development
 Dissertation: "A Study of Teacher Development Program on Transfer of Learning in Indonesia"
 Chair: Fredrick Nafukho
 Co-Chair: Khalil M. Dirani
- Qian Ji Health Education
 Dissertation: "Expressive Writing as a Strategy to Reduce Academic Stress and Enhance Writing Productivity Among a Sample of Graduate Students"
 Chair: Patricia Goodson
- Mirim Kim Educational Psychology
 Dissertation: "Testing Measurement Invariance on Zero-Inflated Measures with Two-Part Factor Model and MGCFM"
 Chair: Myeongsun Yoon
- Hyunkyung Kwon Curriculum and Instruction
 Dissertation: "Striking While the Iron is Hot: Reform-Based Instruction and Problem Solving"
 Chair: Robert Capraro
 Co-Chair: Mary Capraro

- Yi-Fan Li Educational Psychology
Dissertation: "Universal Design for Learning in Postsecondary Education: Measure and Explore Perspectives of Students with Disabilities"
Chair: Dan Zhang
- Jiacheng Lu Educational Human Resource Development
Dissertation: "Factors Leading to Engineering Student Team Performance During Intense International Design Competition"
Chair: Michael M. Beyerlein
- Austin Taylor McCulloch Kinesiology
Dissertation: "The Influence of Neural Stimulation on the Acquisition and Consolidation of Bimanual Coordination Tasks"
Chair: John Buchanan
- Samantha Marie Meek School Psychology
Dissertation: "Effects of Maternal Mental Illness on Behavioral Difficulty in Preschool Children: Do Parental Perceptions of Parenting Ability and the Parent-Child Relationship Play a Role?"
Chair: Sara M. Castro Olivo
Co-Chair: Krystal T. Simmons
- Jihye Oh Educational Human Resource Development
Dissertation: "The Impact of Social Capital in the Workplace: A Systematic Review and Quantitative Study"
Chair: Jia Wang
- Trupti Jayant Palkar Educational Human Resource Development
Dissertation: "Leaving For-Profit Careers to Become Spiritual Leaders Serving in the Context of HRD: Using Case Studies to Inquire into the Transformative Experiences of Professionals"
Chair: Larry M. Dooley
- Dorothy Yee Lok Pang School Psychology
Dissertation: "Chinese American Emerging Adults' Telling of Their Life Stories: A Mixed-Methods Study of the Acculturation Process as Immigrant Children"
Chair: Jeffrey Liew
Co-Chair: Sara M. Castro Olivo
- Eunhee Park Curriculum and Instruction
Dissertation: "Unearthing Embodied Truths in Curriculum and Instruction: Narrative Plotlines Through a Musical Lens"
Chair: Cheryl J. Craig
- Roya Pashmforoosh Educational Psychology
Dissertation: "Virtual Mentoring and Coaching Through Virtual Professional Learning Communities and Reflection: Building Instructional Capacity of School Leaders to Impact Bilingual and English Learners"
Chair: Rafael Lara-Alecio

- Christopher Slaughter Prickett School Psychology
 Dissertation: "Bodily Emotion Recognition Differences Between
 Autism Spectrum Disorder and Typical Development"
 Chair: Steven Woltering
 Co-Chair: Cynthia Riccio
- Elisabeth Kathryn Pugliese Educational Administration
 Dissertation: "An Analysis of Policy and Practices in Preparing
 Culturally Responsive Leaders"
 Chair: Beverly Irby
- Shakiba Razmeh Curriculum and Instruction
 Dissertation: "ESL Beyond the Classroom: Life Stories, Virtual
 Knowledge Communities, and Identity Reconstruction of
 Three Immigrants in the USA"
 Chair: Cheryl J. Craig
- Mayra Danielle Rojas-Vargas Educational Psychology
 Dissertation: "Examining the Impact of Virtual Mentoring and
 Coaching on Teachers of English Learners' Professional
 Growth"
 Chair: Rafael Lara-Alecio
 Co-Chair: Fuhui Tong
- Mary Rose Sallese Educational Psychology
 Dissertation: "Knowledge and Use of Evidence-Based Practices in
 Special Education"
 Chair: Kimberly Vannest
 Co-Chair: Jennifer Ganz
- Mandy Nicole Spadine Health Education
 Dissertation: "Investigating Social Influence on Fad Diet Behavior
 Using Social Network Analysis"
 Chair: Megan S. Patterson
- Daniel Lorenz Springer Kinesiology
 Dissertation: "Student Development Implications of Loose Coupling
 Between University Sport Club Subsystems"
 Chair: Marlene A. Dixon
- Kaitlyn Elizabeth Stein Counseling Psychology
 Dissertation: "The Use of Clinical Outcomes to Measure Within-Group
 Differences in Counselors in Training"
 Chair: Dan F. Brossart
- Carlene Ann Swift School Psychology
 Dissertation: "Examining Psychotherapy Dropout Among Racially and
 Ethnically Diverse Youth"
 Chair: Jamilia Blake
- Vy Tuong Tran Counseling Psychology
 Dissertation: "Clinical Supervisors' Conceptualization and Evaluation
 of Supervisee's Multicultural Counseling Competence:
 An Exploratory Study"
 Chair: Charles Ridley

- Siming Xie Counseling Psychology
 Dissertation: "Acculturative Stress, Chinese Proactive Coping, Time Perspective, and Subjective Well-Being Among Chinese International Students: A Moderation Model"
 Chair: Charles Ridley
- Valeria Yllades Educational Psychology
 Dissertation: "The Use of Telepractice for Communication and Behavioral Challenges for Individuals with ASD and ID"
 Chair: Jennifer Ganz
 Co-Chair: Lisa Perrott
- Zhiqing Zhou School Psychology
 Dissertation: "Acculturation and Eating Disturbance Among Asian American College Students: The Role of Self-Objectification"
 Chair: Jeffrey Liew
 Co-Chair: Sara M. Castro Olivo

College of Engineering

Doctor of Philosophy

- Mohsen Aghashahi Civil Engineering
 Dissertation: "Evaluation and Detection of Leaks in a Laboratory-Scale Water Distribution System with Acoustic, Acceleration, and Dynamic Pressure Sensors"
 Chair: Katherine Banks
 Co-Chair: James Brumbelow
- Ahmad F. Al Douri Chemical Engineering
 Dissertation: "Systematic Frameworks for Reliability, Availability, and Maintainability (RAM) Considerations in Chemical Process Design"
 Chair: Mahmoud El-Halwagi
- Mina Aliakbari Industrial Engineering
 Dissertation: "Optimization Models for Train Routing in Railyard Networks"
 Chair: Joseph P. Geunes
- Vamsi Krishna Amalladinne Electrical Engineering
 Dissertation: "Coding and Compressed Sensing for Massive Random Access"
 Chair: Krishna Narayanan
 Co-Chair: Jean-Francois Chamberland-Tremblay
- Muhammad Anas Chemical Engineering
 Dissertation: "Radio Frequency Heating of Carbon-Based Nanomaterial Films"
 Chair: Micah Green
- Jyot Antani Chemical Engineering
 Dissertation: "Sensory Functions of the Bacterial Flagellar Motor"
 Chair: Pushkar P. Lele

- Joshiba Ariamuthu Venkidasalopathy Chemical Engineering
 Dissertation: "Safety-Centered Quantitative Approach for Alarm System Design and Process Control Design"
 Chair: Costas Kravaris
- Akhil Arora Chemical Engineering
 Dissertation: "Process Design, Optimization and Material Screening Methods for Small-Scale Chemical Manufacturing with Application to Unconventional Natural Gas"
 Chair: M M Faruque Hasan
- Shreedevi Arun Kumar Biomedical Engineering
 Dissertation: "Engineering Druieg Delivery Platforms for Cancer and Infectious Diseases"
 Chair: Akhilesh K. Gaharwar
- Amrita Bal Electrical Engineering
 Dissertation: "Additive Manufacturing and Electroless Metallization of a 4X4 V-Band Contorted Waveguide Butler Matrix"
 Chair: Gregory Huff
 Co-Chair: Robert Nevels
- Pedro Batista Camara Leal Aerospace Engineering
 Dissertation: "Reduced-Order Modeling and Parameterized Optimization of Bio-Inspired Adaptive Structures"
 Chair: Darren J. Hartl
- Shahin Boluki Electrical Engineering
 Dissertation: "Knowledge-Based Bayesian Learning"
 Chair: Edward Dougherty
 Co-Chair: Xiaoning Qian
- Ting-Ju Chen Mechanical Engineering
 Dissertation: "Association, Reflection, Stimulation: Problem Exploration in Early Design Through AI-Augmented Mind-Mapping"
 Chair: Vinayak R. Krishnamurthy
- Yan Chen Materials Science and Engineering
 Dissertation: "In Situ Tribochemical Characterization of Nanolubricants"
 Chair: Hong Liang
- Ting-Yen Chi Materials Science and Engineering
 Dissertation: "Molecularly Imprinted Polymers for Chemical Detection on a Paper Substrate"
 Chair: Jun Kameoka
- Seunghwan Chun Petroleum Engineering
 Dissertation: "Experimental Study of Proppant Transport for Slickwater Fracturing in Unconventional Reservoirs"
 Chair: Kan Wu
- Richard Andrew Couperthwaite Materials Science and Engineering
 Dissertation: "Microstructure Sensitive Design"
 Chair: Raymundo Arroyave
 Co-Chair: Ibrahim Karaman
- Jyotikrishna Dass Computer Engineering
 Dissertation: "Efficient and Scalable Machine Learning for Distributed Edge Intelligence"
 Chair: Rabinarayan Mahapatra

- Dinesh Dhankhar Electrical Engineering
 Dissertation: "Novel Spectroscopic Instrumentation and Spectroscopic Studies on Biologically Important Molecules and Crystals"
 Chair: Peter M. Rentzepis
- Catherine Anne Marie Dillier Mechanical Engineering
 Dissertation: "High-Pressure Exponent Break of AP/HTPB-Composite Propellants"
 Chair: Eric Petersen
- Onder Dincel Electrical Engineering
 Dissertation: "Low-Cost Passive Wireless Sensors for Agriculture and Environment Monitoring"
 Chair: Jun Kameoka
 Co-Chair: Laszlo Kish
- Roshan Thomas Eapen Aerospace Engineering
 Dissertation: "Semi-Analytic Methods for Averaging and Rectification of Complex Dynamical Systems"
 Chair: Manoranjan Majji
 Co-Chair: Kyle Alfriend
- Yixiao Feng Electrical Engineering
 Dissertation: "Multiscale Energy Network Tomography and SmartNIC-Accelerated In-Band Network Telemetry for Network Internal State Monitoring"
 Chair: Nicholas G. Duffield
- Hongxiang Fu Mechanical Engineering
 Dissertation: "An Expanded and Updated Framework for Whole-Facility Energy Consumption Statistical Models of Commercial Buildings"
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 Dissertation: "Sediment Movement Due to Non-Linear Forcing Generated by Irregular Waves, Pressure Gradients, and Ships"
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 Dissertation: "Effect of Inorganic Particles in the Protection Behavior of Epoxy-Based Composite Coatings"
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 Dissertation: "The Implications of Uncertainty in the Results of Simulation Models and Applications of Entropy Measures as a Method for Uncertainty Quantification in Simulation Models"
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 Dissertation: "AI Tools for Design and Operation of Distributed Spacecraft Missions"
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 Dissertation: "Multiphysics Model Order Reduction for Molten Salt Reactors"
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 Dissertation: "Large Scale Data Analytics for Fault Detection and Diagnosis of Residential HVAC Systems"
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 Dissertation: "Synthetic Antioxidant Polymers: Synthesis, Adsorption, and Layer-By-Layer Assembly"
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 Dissertation: "Physical and Cyber Anomaly Management in Massively Digitized Power Systems"
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 Dissertation: "The Theory of Functional Connections: A Journey from Theory to Application"
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 Dissertation: "Multiscale Spatio-Temporal Big Data Fusion of Hydrological Variables from Point to Satellite Footprint Scales"
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 Dissertation: "Innovative Tool for Optimizing Hole Cleaning Efficiency in Deviated and Extended Reach Wells"
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 Dissertation: "Reinforcement Learning Based Decision Making for Self Driving and Shared Control Between Human Driver and Machine"
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 Dissertation: "Proliferation Risk Assessment of a Pebble-Bed Reactor"
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 Dissertation: "Control of Curvature Extrema in Curve Modeling"
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 Dissertation: "Development of a Parallel Geomechanics Code Based on the Message-Passing-Interface (MPI) Approach and Iterative Coupling with a Parallelized Flow and Thermal Simulator for the Analysis of System Behavior in Hydrate-Bearing Geologic Media"
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 Dissertation: "From Fresh- to Sea-Water and From Shallow to Deep - A Turbulence Perspective"
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 Dissertation: "Reconstructing Dysoxia in the Gulf of Alaska and the Eastern North Pacific: Severity, Duration, and Drivers"
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 Dissertation: "Developing Geochemical Evidence for Holocene Hydroclimate Variability in the Subtropical Western North Atlantic"
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 Dissertation: "Bacteriophage Therapy for Treatment of Multiple Drug Resistant *Klebsiella pneumoniae* Derived Hospital Acquired Bacteremia"
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 Dissertation: "Comprehensive Data Analysis Toolkit Development for Low Input Bisulfite Sequencing"
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 Dissertation: "Prostate Cancer Epigenetic Mechanism Study and Biomarker Discovery Using Bioinformatics Approaches"
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 Dissertation: "Early High-Fat Dietary Exposures Epigenetically Program Mammary Cancer Susceptibility"
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 Dissertation: "Three Essays in Health Services Research: Impact of the Affordable Care Act on Access to Care and Hospitalization in Texas"
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 Co-Chair: Benjamin Ukert
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 Dissertation: "Analysis of Factors Associated with Access to Pharmacy Services and Pharmacy Closures"
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 Dissertation: "Rural Medicare Beneficiaries and Frequent Emergency Department Users"
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- Eva Linda Trevino Veterinary Medicine

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.

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.

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 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.

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.

“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, graduates will turn their Aggie Rings so that the Class year faces away from the body symbolizing a readiness to face the world.

Being an Aggie lasts a lifetime! It is a life-long 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 take 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 honors 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 or honors. 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>.