UNIVERSITY OF | Daniel Felix Ritchie School DENVER | of Engineering & Computer Science

AWARDS & GRADUATION CELEBRATION

Friday, June 14, 2024

Elizabeth Eriksen Byron Theatre Robert and Judi Newman Center for the Performing Arts



Daniel Felix Ritchie School of Engineering & Computer Science UNIVERSITY OF DENVER

PROGRAM

WELCOME AND OPENING REMARKS

Dean Michelle Sabick, Ph.D.

STUDENT REFLECTION

Sunjoi Gandhi

RITCHIE SCHOOL AWARDS

Michelle Sabick, Ph.D. Breigh Roszelle, Ph.D. Dave Krenek, P.E. Chris GauthierDickey, Ph.D. Haluk Ogmen, Ph.D.

DOCTORAL HOODING RECOGNITION

Michelle Sabick, Ph.D.

TAU BETA PI RECOGNITION

Michelle Sabick, Ph.D.

GRAND CHALLENGES SCHOLAR PROGRAM

Michelle Sabick, Ph.D.

ORDER OF THE ENGINEER

Breigh Roszelle, Ph.D.

PLEDGE OF THE COMPUTING PROFESSIONAL

Chris GauthierDickey, Ph.D.

DATA SCIENCE, CYBERSECURITY, AND SYSTEMS ENGINEERING GRADUATE RECOGNITION

Michelle Sabick, Ph.D.

CLOSING REMARKS Michelle Sabick, Ph.D.



RITCHIE SCHOOL AWARDS

Faculty Teacher of the Year	The Faculty Teacher of the Year Award is given to a tenured or tenure track faculty member, lecturer, or adjunct recognized by students and colleagues for excellence in teaching and incorporating innovative teaching methods to improve the learning experience of undergraduate and/or graduate students.
Faculty Scholar of the Year	The Faculty Scholar of the Year Award is given to a Ritchie School faculty researcher recognized by the Ritchie School community for creative work that has been impactful and enhanced the reputation of the school for scholarly activity.
Excellence in DEIJ	The Excellence in Diversity, Equity, Inclusion and Justice (DEIJ) Award is given to a member of the Ritchie School community for advancing our efforts to the school culturally diverse and reflective of inclusive excellence.
Citizen of the Year	The Citizen of the Year Award is given to a faculty member, graduating student, staff member, or alumnus for going above and beyond to enhance the perception and image of the Ritchie School to DU and to the greater community through community service, university committee work, and/or volunteer work.
Staff Member of the Year	The Staff Member of the Year Award is given to a staff member for work done beyond job requirements to improve the work environment and the general culture of the Ritchie School.
Graduate Student Scholar of the Year	The Graduate Student Scholar of the Year Award is given to an active Ritchie School graduate student for excellence in both the quality and productivity of research with an emphasis on publications and breakthrough research.
Graduate Teaching Assistant of the Year (Engineering)	The Graduate Teaching Assistant of the Year (Engineering) Award is given to an active Ritchie School graduate teaching assistant for excellence in fostering a strong learning environment and going beyond the general job requirements to improve the classroom teaching environment.
Graduate Teaching Assistant of the Year (Computer Science)	The Graduate Teaching Assistant of the Year (Computer Science) Award is given to an active Ritchie School graduate teaching assistant for excellence in fostering a strong learning environment and going beyond the general job requirements to improve the classroom teaching environment.



RITCHIE SCHOOL AWARDS

Undergraduate Student Scholar of the Year	The Undergraduate Student Scholar of the Year Award is given to an active Ritchie School undergraduate student for excellence in both the quality and productivity of research.
Colorado Engineering Council	Each year, three engineering students are nominated for the Colorado Engineering Council Silver Medal Award, one of the highest honors an engineering student at the University of Denver can receive.
Student Service	The Student Service Award is given to a graduating undergraduate or graduate student who has worked to impact the student experience at the Ritchie School.
KEEN Entrepreneurial Mindset of the Year	The KEEN Entrepreneurial Mindset of the Year Award is given to an engineering or computer science student demonstrating a passion for Innovation and the Entrepreneurial Mindset.
Departmental Awards	The Mechanical and Materials Science Engineering Department, the Electrical and Computer Engineering Department, and the Computer Science Department present awards each year.
Dean's Award	The Dean's Award recognize someone who did something special, but the recognition of their accomplishments do not fit into an award category.



The Doctoral Hooding Recognition is a special acknowledgment for students receiving doctoral degrees. During the event, a faculty member speaks about the doctoral candidate's work and accomplishments, then places the doctoral hood over the head of the graduate, signifying the student's success in completing the doctoral program.

The following three doctoral candidates have selected to participate in this year's Doctoral Hooding Recognition:

Thor Andreassen

Dissertation: Digital Twins of the Living Knee:

From Measurements to Model

Advisor: Kevin Shelburne, Ph.D.

Simone Martini

Dissertation: Koopman Based Modeling for Nonlinear Control of Multirotor UAVs Advisors: Margareta Stefanovic, Ph.D. & Kimon Valavanis, Ph.D.

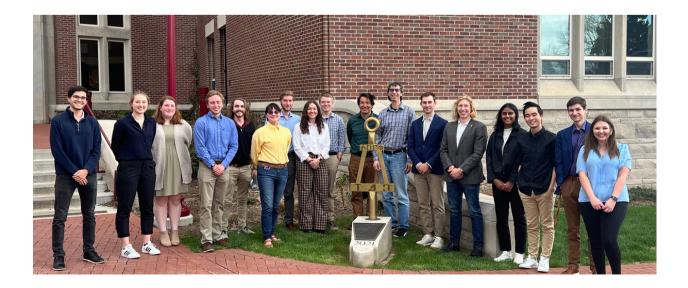
Matt A. Reil

Dissertation: Effect of Oxidation of Graphene on Agglomeration and the Mechanical Properties of Thermosetting Resins Advisor: Maciej Kumosa, Ph.D. Tau Beta Pi is the oldest engineering honor society and the second oldest collegiate honor society in the United States. It honors engineering students who have shown a history of academic achievement as well as a commitment to personal and professional integrity.

Faculty Advisors: Matthew Gordon, Ph.D., Jason Roney, Ph.D.

Samuel Adams Zachary Bayler Madeline Bohn Hannah Bosak Milana Diaz Stormy Hegg Elliott Ische Eric Jacobs

Clayton Mosher Ella Ross Steven Said Noe Sheridan Daniel Silva Rios Darius Soo Hoo Bryce Swearingen



GRAND CHALLENGES SCHOLARS PROGRAM

With a mission of advancing technical and scientific knowledge and capabilities to improve quality of life for our global society, the Ritchie School of Engineering and Computer Science is a natural fit for the Grand Challenges Scholar Program. The program is a unique opportunity for our students to gain the expertise, knowledge, and social, ethical and environmental awareness needed to become leaders in addressing the National Academy of Engineering's Grand Challenges.

Our students have the unique opportunity to work with a team of fellow Grand Challenges Scholars towards sustainability, security, health, and joy of living advancements while focusing on the five core Grand Challenges competencies.

- Talent Competency: mentored research/creative experience on a Grand Challenge-like topic
- Multidisciplinary Competency: understanding multidisciplinary of engineering systems solutions developed through personal engagement
- Viable Business/Entrepreneurship Competency: understanding, preferably developed through experience, of the necessity of a viable business model for solution implementation
- Multicultural Competency: understanding different cultures, preferably through multicultural experiences, to ensure cultural acceptance of proposed engineering solutions
- Social Consciousness Competency: understanding that engineering solutions should primarily serve people and society reflecting social consciousness

We extend our heartfelt congratulations to the following students for successfully completing the Grand Scholars Challenge Program at the Ritchie School of Engineering and Computer Science:

Zachary Bayler Brooke Bernier Stormy Hegg



"Upholding devotion to the Standards and Dignity of the Engineering Profession"

The Order of the Engineer was initiated in the United States to foster a spirit of pride and responsibility in the engineering profession, to bridge the gap between training and experience, and to present to the public a visible symbol identifying the engineer. The Engineer's Ring in the United States is a stainless-steel ring, worn on the fifth finger of the working hand by engineers who have accepted the Obligation of an Engineer in a Ring Ceremony.

Obligation

I am an Engineer. In my profession, I take deep pride. To it, I owe solemn obligations.

As an Engineer, I pledge to practice integrity and fair dealing, tolerance and respect, and to uphold devotion to the standards and the dignity of my profession, conscious always that my skill carries with it the obligation to serve humanity by making the best use of Earth's precious wealth.

As an Engineer, I shall participate in none but honest enterprises. When needed, my skill and knowledge shall be given without reservation for the public good. In the performance of duty and in fidelity to my profession, I shall give the utmost.



PLEDGE OF THE COMPUTING PROFESSIONAL

"Intended to promote and recognize the ethical and moral behavior of graduates of computing-related degree programs as they transition to careers of service to society."

The Pledge of the Computing Professional is an organization to promote the notion of computing as a recognized profession at the time of graduation for students in Computer Science and related programs. The Pledge is modeled after the Order of the Engineer – a long-standing rite-of-passage for graduates from engineering programs.

Oath

I am a Computing Professional. My work as a Computing Professional affects people's lives, both now and into the future. As a result, I bear moral and ethical responsibilities to society.

As a Computing Professional, I pledge to practice my profession with the highest level of integrity and competence. I shall always use my skills for the public good. I shall be honest about my limitations, continuously seeking to improve my skills through life-long learning.

I shall engage only in honorable and upstanding endeavors. By my actions, I pledge to honor my chosen profession.



SPECIAL PROJECTS

2023-2024

ENGINEERING SENIOR DESIGN PROJECTS

Providing Accessible, In-Home Care with Parallel Bars Team: Shooq Alasousi, Eric Jacobs, Oliver Nickel, Ana Vences Sponsor: Agile Orthopedics

Peripheral IV Catheter Needle Tracking with Vein Visualization Technology Team: Abdihalim Bihi, David Ki, Johnathan McHorse, Toby Werthan Sponsor: *B-BRAUN*

Building Opportunities with Tactile Geometry Team: Hannah Bosak, Ryan Choi, Savannah Palmer, Bryce Swearingen Sponsor: Blind Institute of Technology

DU Mobility Solutions Team: Ethan Burnett, Kevin Fuentes, Evan Hill, Clay Mosher, Evan Snell Sponsor: Craig Hospital Rugged and Ready: Data Recording in Extreme Environments Team: Brooke Bernier, Phillip Chiem, Reagan Hardy, Brian Lee, Mason Niccoli Sponsor: *daqscribe*

Beyond Electricity: A Peristaltic Wound Pump for Global Health Challenges Team: Joseph Pham, Charlie Podiak, Bryan Sharp, Lucy Ward Sponsor: Design Outreach

Optical Biosensor Team: Hiroto Bauer, Alex Kondracki, Raul Medina-Estrada Sponsor: Dr. Sangho Bok



ENGINEERING SENIOR DESIGN PROJECTS

DU Cyclorotor

Team: Anthony Delgado, Will Howhannesian, Michael Kahler, Eyobel Kahsay, Cade Thornton Sponsor: Ritchie School of Engineering and Computer Science (Electrical and Computer Engineering)

Surfing into Sustainability

Team: Milana Diaz, Lukas Fisher, Ryan Pineda Sponsor: *Matthew Taylor*

Underwater Autonomous Vehicle Team: Avery Doss, Charlie Hancock,

Eliot Howell, John Leseur, Ella Ross, Cole Schweitzer Sponsor: DU SRI, Unmanned Systems Research Institute

Skin Mounted Sensors for Total Hip Replacement Cup Alignment Team: Samuel Adams, Zach Bayler, Madeline Bohn, Connor McCoy, Josh Mejia Sponsor: Eventum Orthopaedics

Quantifying Tension During Vertebral Body Tethering Team: Mattie Hyde, Adam Page, Noe Sheridan, Dylan Yapp Sponsor: *Highridge Medical*

LARRS – Lunar Astronaut & Rover Recovery System Team: Ryan Considine, John Denfeld, Leonel Gomez Flores, Kelby Modene, Adam Nobs, Daniel Silva Rios Sponsor: Lockheed Martin

Charcot Reconstruction Surgery: Osteotomy Guide Team: Stormy Hegg, Elliott Ische, Steven Said Sponsor: Paragon 28



COMPUTER SCIENCE SYMPOSIUM & RESEARCH PROJECTS

Exploring the Digital Romance Frontier: Empowering Older Adults in Online Dating While Understanding Their Perceptions Muskan Fatima

Rising Tides - Recreating an Interactive Java Programming Assignment in Python George Kreye (Thesis)

Designing Safer and Easier Multi-MAV Swarm Interfaces Joe Ontiveros Rodriguez

Developing a Mastery Learning Service for ASSISTments Hector Rodriguez NYKU: A Social Robot Matthew Hessler

Using Webcam-Based Eye Tracking to Model Attention with Neurodivergent Learners Demi Jaiyeola

Defensive Perimeters Aaron Kraft

Social Robots- Attachment and Embodiment Weston Laity

Less can be More! Enhancing Detection Performance of Lightweight Models Nidhi Madabhushi

Is Your Playlist Gender-Biased? Sunny Shrestha

Brush-E Bot: Your Toothbrushing Companion Maisey Toczek

CLASS OF 2024

BACHELOR OF ARTS

Applied Computing

Jailene Lisset Castillo Murphy Li Kevin J. Lynch

Game Development

Fiona Kathleen Bolen Adrian Dahvin Kum Logan Donald Skaletski

BACHELOR OF SCIENCE

Computer Science

Nicolas Abelanet Rula Ali Al-Saloom Preston Davis Alexander Nick Stephen Andrews Ethan Blair Mike Allan Blanding Blake Robert Booker Luke T. Brennan Isabella Cardenas Zack Chen Salvo Cimmino Eden Cohen Rosalyn E. Conry Max Leonard Conry Neb E. Equale Julia Greta Matilda Ekholm Will Boyd Emery Steven Michael Flaxman **David Lee Foster** Sunjoi Gandhi Spencer Harris Gee **Calvin Francis Geissler** Scott Zachary Goldin Austin Michael Grant Landon E. Hershev Tanner Dean Hoalst Ahmed A. Hussein Cole Alexander Jansky Brvan Jiron Anabelle Elizabeth Johnson **Daniel Kanaracus**

Alex Khun Lucy K. Kien Julia Ann Kip Joe Michael Koss George J. Kreye* * **Rilev Aaron Kristianson** Justin Martin Lefkowitz Hank August Lewis Ian Patrick Madigan Robel Anbessawendm Mamo Brian Alexander McCulloch John E. McGillivrav Chad William Monteith **Coleter Vance Mount** Sneha Atul Patil Marcus Paz Ren Pratt Conor G. Quinlan Ibraheem Uzair Qureshi Adam Richardson Nikki I. Roberts Lukas Rodwin German Roio Gloria J. Saidi Ashley Carolina Sanchez Aden Sattler Hayden Erich Schramm Sapar Shayan Cass Mary Sherman **Timothy James Sheu** Antonio A. Sigala Michelle Fanning Skibicki

Annika Joy Sonne Cooper Rowe Standard Rebecca Gail Jaeger Stockel Maximilian Strizhenko Maya Renee Suehnholz Sabrina Xiamei Towne Ajit Vallamkonda Ladarion D. Wells Kyle Ryan Whetstone Keisuke Yoshida

Game Development

Walter Byron Bryant Payton Mattes Claire Elizabeth Roman Josh D. Rosen

* indicates distinction

- * indicates honors
- ** indicates Grand Challenges Scholar

BACHELOR OF SCIENCE

Computer Engineering

Shooq Alasousi Madeline Claire Bohn Ryan James Considine Ryan Choi Kevin Mauricio Fuentes Evan Hill David Ki Alex I. Kondracki John Hinson Leseur Josh Mejia Cade Michael Thornton Toby Werthan Xavier Zuvekas

Electrical Engineering

Zach Bayler* ** Ethan Adam Burnett Emma Clason Avery Doss Leo Gomez Reagan Emilee Hardy Eric Andrew Jacobs Brian H. Lee Jon McHorse Raul A. Medina Estrada Cole Anthony Schweizer Noe Sheridan Daniel Silva Rios Bryce Benjamin Swearingen

* indicates distinction

* indicates honors

** indicates Grand Challenges Scholar

Mechanical Engineering

Sam Angus Adams **Hiroto Bauer** Brooke Logan Bernier** Abdihalim Asad Bihi Hannah Gerilvnn Bosak* Phillip Vantai Chiem Anthony Moises Delgado John Patrick Denfeld Milana Celia Diaz Lukas Fisher Charlie Hancock Stormy L. Hega** Eliot O. Howell Will J. Howhannesian Mattie Jane Hyde Elliott Ische Michael Kahler Eyobel Kahsay Connor John McCoy Jimmy Murphy McGlynn Kelby Modene **Clay Mosher** Mason Christopher Niccoli Oliver Edward Nickel Adam B. Nobs Adam Robert Page Savannah E. Palmer Joseph Pham Ryan N. Pineda **Charlie Benjamin Podiak** Ella Katherine Ross Steven Chad Said* **Bryan David Sharp Evan Anthony Snell** Darius Akeakamai Soo Hoo Ana Yadira Vences Lucy Fobes Ward

Bioengineering

Ola Alsaadi

Thesis: Exploration of Motion Capture System to Investigate Human Shoulder Kinematics Advisor: Dean Michelle Sabick, Ph.D.

Kelsey Erin Brantley Advisor: Dr. Peter Laz

Computer Engineering

Farida Far Poor Thesis: A Study on Multimodal AI for Mild Cognitive Impairment Detection Advisor: Dr. Mohammad Mahoor

Behrouz Sohrabi

Thesis: *Al Applications in Electric Grid Modernization* Advisor: Dr. Amin Khodaei

Computer Science

Max Leonard Conway Ben Diu Ben E. Dossett Thesis: Bridging Design and Perception: Novel Tools and Technologies for Creating Effective Human-Robot Interactions Advisor: Dr. Kerstin Haring James Elofson Jurgen Heinz Famula Thesis: Bridging Design and Perception: Novel Tools and Technologies for Creating Effective Human-Robot Interactions Advisor: Dr. Kerstin Haring **Tanner Hunt Francis** Aniekan Ufot Inyang Thesis: Terrain and Adversary-Aware Autonomous Robot Navigation Advisor: Dr. Christopher Reardon Urvashi Kishnani Thesis: Ensuring Security, Privacy, and Usability of E-Payment Applications for the Elderly Population: A Comparative Study of Interface Design and Authentication Mechanisms Advisor: Dr. Sanchari Das

Cybersecurity

Jason Frederick Back Amanda Nicole Brown Diaz del Castillo Audrey Renee Dessauer Maria Orms Angelica Denise Shelman Alex Manuel Sifuentes

Ori Abraham Miller

Thesis: Exploring Human-aware Navigation with Heterogeneous Multi-robot Systems and Extreme Environments Advisor: Dr. Christopher Reardon Naheem Olasunkanmi Noah Thesis: A Proposal to Study Shoulder-Surfing Resistant Authentication for Mixed Reality Advisor: Dr. Sanchari Das **Brian Petty** Shahiq Qureshi Thesis: Evaluating the Effectiveness of Graph and Timeline-based Visualization Techniques for Search Engine Results: A Comparative Study Advisor: Dr. Kerstin Haring Aishwarya Surani Thesis: Investigating Privacy and Security Concerns of Older Adults in Telehealth Mental Healthcare Chatbots Advisor: Dr. Sanchari Das

Matthew Joseph Walther

MASTER OF SCIENCE

Data Science

Kunal Reddy Ajjagottu Raushan Akayeva Ahmed Al Ayoubi Zayne Alsaif Ginger Anderson* Cazandra Aporbo Uthayashankar Azhagiyaselvan Pollachi Edmond Mwinbamon Balika Logan Barger Margaret Barker Paulo Andres Stevens Barrera Davin Barthold Elizabeth Bob* **Brendon Bottle*** Matthew Boyer Jacquelyn Renea Britton Aaron C. Brommers Lisa Diann Bryan Moni Mownika Buddha **Peyton Capristo** Peer Cullum Carnes Jehu B. Castellano **Grant Chandler Connie Chang** Katie Chen Ziging Chen **Ben Citrin** Max Masinas Condong **Tori Copeland** Joel A. Corley Matt J. Cuneo Merihan Daniel Michelle A. Davis Antonio Dehesa Ortiz Kapil Rameshbhai Desai Kat Douglass Adam Palmer Drew Adriane Marie Farmer

Sammy Firestone **David Frances** Elizabeth B. Fugikawa* Marina Garceau* Jonah Goldfine Andrea Green Alonna Guerrero Hugh Robert Hall Brian D. Hanson* Lily Hartmann **Evan Thomas Hollier** Paul A. Homuth* **Yixuan Huang** Aaron Paul Hunsaker Dan Jung* Darina Kamikazi Harlan Duane Kefalas Kayla Kight Margaret Anne King Jeff Kirkpatrick Dina Koes I alith Konda Calvin Kreusser Bob N. Kruse Aaron Rohlfs LaFevers* Arisbeth Laguna* **Brittany Laurent** Han Lee* Sebastian Lemm Clavton Leon **Daniel Lewis** Matt R. Lueck Lumin Lumin A.J. John Madison Megan Lee Mall* Ash Malmlov* Travis Mark* Ainslev Corbin McCutcheon Ian McKellar Robert McLellan

* indicates honors

Sean Andrew McManus Shane McIntyre Isaac Xavier McPadden Walker Jones Meeker Nick Andrew Mertens Kurt Mever Sarah E. Millard Vishnu Mohan Anthony Clinton Molieri Indresh Muniraj Corey Munk Abdu Munye **Jacqueline Noyes** lan O'Keeffe Matt Ostendorf* Andrew Otis* Waranya Phanphon Jason Phennicie Kaleigh Pierce Suvechya Pokhrel Kirtan Pokiya Elaine Ramos* Jonny Ramos* Sanjay Sudheendra Rao **Bradley Robasky** Evan Stuart Russell Vihesh Saharan* Sanjay Sanapoori Amv Schneider **Pinak Shome** Robert L. Silber Taylor Mone Smith Jessica M. Stapleton* Peter Strimbu **Dave Sturgis** Ellie MacRae Sullivan Chris Kendall Sunderland* William Tandio* Edward Tang Jake Scott Thoma

Data Science (cont'd)

Ben Lee Thomas
Spencer Tillman
Stuti Tiwari
Josef Marc Triman*
Justin Uppal
Vivek Varadarajan
Justin Vicars
Jackie Vogel
James Vuillemot
Leo Walker
Mitchell Walker

Lee Alfred Washington Katrina Wheeler Carlos Oscar Willis Ryan Wilson Jessi M. Woods Moe Youan Jimmy Zhang Laura Zipperian Alexia Zupancic

Engineering with a Concentration in Engineering Management

Andy Van Avery Advisor: Dr. Paul Rullkoetter

Electrical Engineering

Mahdi HNM Abdullah Advisor: Dr. David Gao Diba Ehsani Thesis: *Quantum-Powered Battery Scheduling in Modern Distribution Grids* Advisor: Dr. Amin Khodaei Osama Mohammed A. Zangoti Thesis: *Incremental Quantities Based Permissive Overreaching Transfer Trip Scheme for Protecting Inverter-Based Renewable Resources* Advisor: Dr. Rui Fan

* indicates honors

MASTER OF SCIENCE

Mechanical Engineering

Chad Michael Chaffee Thesis: An Aeroacoustic Analysis of Urban Wind Turbine Blades Advisor: Dr. Jason Roney

Brendan Michael Curran Thesis: Patient Specific Musculoskeletal Modeling of Total Shoulder Arthroplasty Advisor: Dr. Kevin Shelburne

Justin Michael Huff Advisor: Dr. Matt Gordon

Gabrielle Jeannine Kindy

Thesis: Statistical Modeling of Knee Morphology and Material Properties Considering Diverse Populations Advisor: Dr. Peter Laz

Alexander Scott Thomson

Thesis: An Investigation into the Optimization of Hybrid Laminar Flow Control Over an Airfoil Advisor: Dr. Jason Roney

Systems Engineering

Gabe Marcos Alarcon Caine Miles W. Alldritt Cesar Banda Johnny Barajas Adam Black **Greg Bracht Calvin Buechler** Kathy Castillo Chris Michael Danaher **Olivia West Fox** Amy Gould **Carlos Granados** Elizabeth Anne Imbler Adam Jerlow Griffith Kull Jacob Laidlaw Justin Lindell Sydney Lindeman Jake Miller Deanna K. Mitchell Chris Michael Naviaux Louisa Orton Nick Postler Johan Ramirez **Chris Steven Rand** Cherie Rodowsky **Kristin Schubert** Jordan A. Smith Kathryn Elaine Sullivan Steve Tereschuk Will James Theaker Miles Tracy Tripp Alex J. Vigneau

Electrical and Computer Engineering

Simone Martini Dissertation: Koopman Based Modeling for Nonlinear Control of Multirotor UAVs Advisors: Dr. Margareta Stefanovic & Dr. Kimon Valavanis

Shruti Singh Dissertation: Consensus-based Active and Reactive Power control & Management of Microgrids Advisor: Dr. David Gao

Rohola Zandie Dissertation: *Controllable Language Generation Using Deep Learning* Advisor: Dr. Mohammad Mahoor

Materials Science

Matt A. Reil Dissertation: Effect of Oxidation of Graphene on Agglomeration and the Mechanical Properties of Thermosetting Resins Advisor: Dr. Maciej Kumosa

Mechanical Engineering

Thor Andreassen Dissertation: Digital Twins of the Living Knee: From Measurements to Model Advisor: Dr. Kevin Shelburne

Yashar Behnam

Dissertation: Advancing Experimental TKA Biomechanics from Joint Simulator Development to Computational Wear Validation Advisor: Dr. Chadd Clary

Sean Higinbotham Dissertation: Determinants of Knee Motion in Health, Disease, and Repair Advisor: Dr. Kevin Shelburne

Kingsford Koranteng Dissertation: Thermo-Mechanical Instabilities in Next-Generation Friction Materials in High-Speed Sliding Systems Advisor: Dr. Yun-Bo Yi

Chase Ryan Maag Advisor: Dr. Paul Rullkoetter

Yizhan Zhang Dissertation: Molecular Dynamics Study of Characterization in Metal-Free Friction Materials Advisor: Dr. Yun-Bo Yi



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