AWARDS & GRADUATION CELEBRATION

Friday, June 14, 2024
Elizabeth Eriksen Byron Theatre
Robert and Judi Newman Center for the Performing Arts
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 RECOGNITION

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  Clayton Mosher
Zachary Bayler   Ella Ross
Madeline Bohn   Steven Said
Hannah Bosak    Noe Sheridan
Milana Diaz     Daniel Silva Rios
Stormy Hegg     Darius Soo Hoo
Elliott Ische   Bryce Swearingen
Eric Jacobs
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
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

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

DU Mobility Solutions
Team: Ethan Burnett, Kevin Fuentes, Evan Hill, Clay Mosher, Evan Snell
Sponsor: Craig Hospital
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
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
The appearance of a student's name in this commencement program does not certify eligibility for graduation.
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

Mechanical Engineering
Sam Angus Adams
Hiroto Bauer
Brooke Logan Bernier**
Abdihalim Asad Bihi
Hannah Gerilynn Bosak*
Phillip Vantai Chiem
Anthony Moises Delgado
John Patrick Denfeld
Milana Celia Diaz
Lukas Fisher
Charlie Hancock
Stormy L. Hegg**
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

* indicates distinction
* indicates honors
** indicates Grand Challenges Scholar

The appearance of a student’s name in this commencement program does not certify eligibility for graduation.
MASTER OF SCIENCE

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: AI Applications in Electric Grid Modernization
Advisor: Dr. Amin Khodaei

Computer Science

Max Leonard Conway
Ben Diu
Ben E. Dossett
Advisor: Dr. Kerstin Haring

James Elofson
Jurgen Heinz Famula
Advisor: Dr. Kerstin Haring

Tanner Hunt Francis
Aniekan Ufot Inyang
Advisor: Dr. Christopher Reardon

Urvashi Kishnani
Advisor: Dr. Sanchari Das

Cybersecurity

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
**Data Science**

<table>
<thead>
<tr>
<th>Name</th>
</tr>
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<tbody>
<tr>
<td>Kunal Reddy Ajjagottu</td>
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<tr>
<td>Raushan Akayeva</td>
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<tr>
<td>Ahmed Al Ayoubi</td>
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<td>Zayne Alsaif</td>
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<td>Ginger Anderson*</td>
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<td>Cazandra Aporbo</td>
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<td>Edmond Mwinbamon Balika</td>
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<td>Paulo Andres Stevens Barrera</td>
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<td>Davin Barthold</td>
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<td>Elizabeth Bob</td>
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<td>Brendon Bottle*</td>
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<td>Matthew Boyer</td>
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<td>Jacquelyn Renea Britton</td>
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<td>Aaron C. Brommers</td>
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<td>Lisa Diann Bryan</td>
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<td>Moni Mownika Buddha</td>
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<td>Peyton Capristo</td>
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<td>Peer Cullum Carnes</td>
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<td>Jehu B. Castellano</td>
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<td>Grant Chandler</td>
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<td>Tori Copeland</td>
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<td>Joel A. Corley</td>
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<td>Matt J. Cuneo</td>
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<td>Merihan Daniel</td>
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<td>Michelle A. Davis</td>
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<td>Antonio Dehesa Ortiz</td>
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<td>Kapil Rameshbhai Desai</td>
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<td>Kat Douglass</td>
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<td>Adam Palmer Drew</td>
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<td>Adriane Marie Farmer</td>
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<td>Sammy Firestone</td>
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<td>David Frances</td>
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<td>Elizabeth B. Fugikawa*</td>
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<td>Marina Garceau*</td>
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<td>Jonah Goldfine</td>
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<td>Andrea Green</td>
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<td>Alonna Guerrero</td>
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<td>Hugh Robert Hall</td>
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<td>Brian D. Hanson*</td>
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<td>Lily Hartmann</td>
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<td>Evan Thomas Hollier</td>
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<td>Paul A. Homuth*</td>
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<td>Yixuan Huang</td>
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<td>Dan Jung*</td>
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<td>Darina Kamikazi</td>
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<td>Harlan Duane Kefalas</td>
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<td>Kayla Kight</td>
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<td>Margaret Anne King</td>
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<td>Lalith Konda</td>
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<td>Calvin Kreusser</td>
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<td>Bob N. Kruse</td>
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<td>Aaron Rohlf's LaFevers*</td>
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<td>Arisbeth Laguna*</td>
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<td>Brittany Laurent</td>
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<td>Han Lee*</td>
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<td>Sebastian Lemm</td>
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<td>Clayton Leon</td>
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<td>Daniel Lewis</td>
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<td>Matt R. Lueck</td>
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<td>Lumin Lumin</td>
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<td>A.J. John Madison</td>
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<td>Megan Lee Mall*</td>
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<td>Ash Malmlov*</td>
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<td>Travis Mark*</td>
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<td>Ainsley Corbin McCutcheon</td>
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<td>Ian McKellar</td>
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<td>Sean Andrew McManus*</td>
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<td>Shane McIntyre</td>
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<td>Isaac Xavier McPadden</td>
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<td>Walker Jones Meeker</td>
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<td>Nick Andrew Mertens</td>
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<td>Kurt Meyer</td>
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<td>Sarah E. Millard</td>
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<td>Vishnu Mohan</td>
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<td>Anthony Clinton Molieri</td>
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<td>Indresh Muniraj</td>
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<td>Jacqueline Noyes</td>
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<td>Ian O'Keeffe</td>
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<td>Matt Ostendorf*</td>
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<td>Andrew Otis*</td>
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<td>Waranya Phanphon</td>
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<td>Jason Phennicie</td>
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<td>Kaleigh Pierce</td>
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<td>Suvecha Pokhrel</td>
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<td>Kirtan Pokiya</td>
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<td>Elaine Ramos*</td>
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<td>Jonny Ramos*</td>
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<td>Sanjay Sudheendra Rao</td>
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<td>Bradley Robasky</td>
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<td>Evan Stuart Russell</td>
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<td>Vihesh Saharan*</td>
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<td>Sanjay Sanapoori</td>
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<td>Amy Schneider</td>
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<td>Pinak Shome</td>
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<td>Robert L. Silber</td>
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<td>Taylor Mone Smith</td>
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<td>Jessica M. Stapleton*</td>
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<td>Peter Strimbu</td>
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<td>Dave Sturgis</td>
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<td>Ellie MacRae Sullivan</td>
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<td>Chris Kendall Sunderland*</td>
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<tr>
<td>William Tandio*</td>
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<tr>
<td>Edward Tang</td>
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<td>Jake Scott Thoma</td>
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</tbody>
</table>

*indicates honors

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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
The appearance of a student’s name in this commencement program does not certify eligibility for graduation.

**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
For more information, visit ritchieschool.du.edu

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