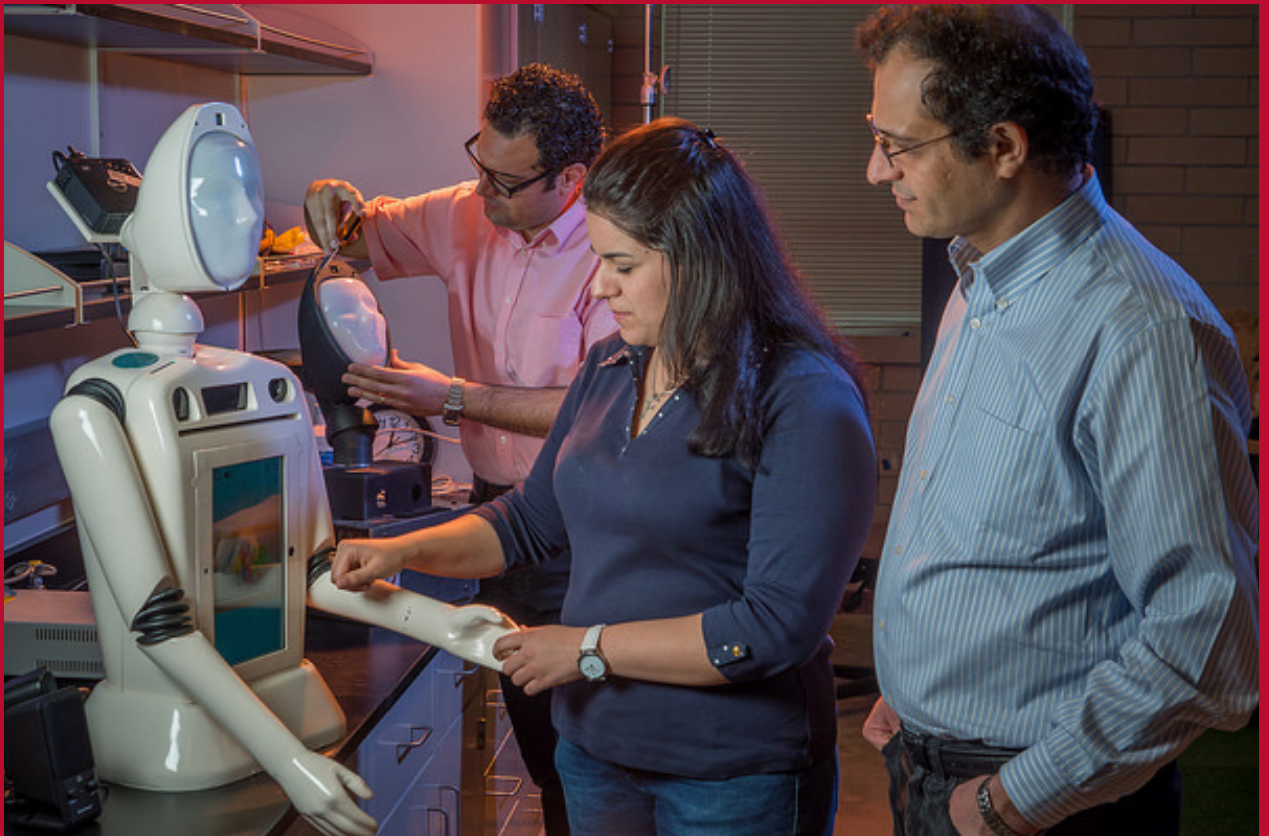


2022-2023

# GRADUATE ADVISOR DIRECTORY



UNIVERSITY OF  
DENVER

Daniel Felix Ritchie School  
of Engineering & Computer Science



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# THE EXCITEMENT OF NEW BEGINNINGS

Your time in graduate school lays the foundation for your future. That's why we're excited that you're considering the Ritchie School of Engineering and Computer Science at the University of Denver!

The Ritchie School is home to state-of-the-art labs and classrooms, a vibrant community, and innovative faculty.

This booklet will serve as your starting point for finding the right faculty advisor.

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# 4 TIPS FOR FINDING YOUR ADVISOR

Make grad school a transformative experience by finding the best advisor for you.

1

**Search for mutual research interests.** The most important criteria to consider when deciding on a dissertation advisor are the research interests of the faculty members in your department. Ideally, a graduate student should select a dissertation advisor who has a successful, active scholarly agenda in the area the student is researching.

2

**Does the advisor understand your desired career path?**

While having high expectations is great, tenure-track positions at major institutions may not be your particular goal. You may desire a career at a teaching institution, an administrative position, or an alt-ac career altogether. Your advisor must be clear on your goals and be willing to support you in whatever you decide.

3

**Can you see yourself spending the next 3 (or 4, or 5, or 6) years working with this individual?** It helps tremendously if the personalities of you and your advisor are compatible to some degree. You will spend the next few years after completing your exams working closely with your advisor.

4

**Don't get discouraged if you do not hear back from faculty quickly** as they are often busy in the classrooms and labs. If you haven't heard back from an advisor reach out to Kevin Alt, [Kevin.Alt@du.edu](mailto:Kevin.Alt@du.edu) and he'll help follow up.



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# Computer Science

## Andrews, Anneliese

**Research Specialties:** Software testing and performance

**Taking on new students?** No

## Das, Sanchari

**Research Specialties:** Computer security, privacy, education, human-computer interaction, social computing, accessibility, and sustainability of digital tech

**Taking on new students?** Yes

## Dewri, Rinku

**Research Specialties:** Large-scale private record linkage, situational awareness in IoT networks, and usable privacy policies

**Taking on new students?** No

## GauthierDickey, Chris

**Research Specialties:** Visual programming languages, type systems, compilers, and games

**Taking on new students?** No

## Haring, Kerstin

**Research Specialties:** Human-robot interaction, social robotics, AI, and robot ethics

**Taking on new students?** Yes

## Hutt, Stephen

**Research Specialties:** AI, algorithmic bias, machine learning, user modeling, educational technologies, big data, human-centered computing, cognitive science, and learning science

**Taking on new students?** Yes

## Leutenegger, Scott

**Research Specialties:** Past research includes databases, performance modeling, and computer science education. Current research interests include JEDI (Justice, Equity, Diversity, and Inclusion) in computer science and engineering education, computational/data-driven art, and data-driven JEDI in society

**Taking on new students?** Yes

## Lopez, Mario

**Research Specialties:** Design and analysis of algorithms, computational geometry, and applications

**Taking on new students?** Yes

## Reardon, Chris

**Research Specialties:** AI-enabled human-robot interaction and teaming; emergent technologies and wearables; heterogeneous, multi-robot air-ground teams; real-world and field robotics applications; cognitive and perception systems to enable human-robot teaming

**Taking on new students?** Yes

## Rutherford, Matt

**Research Specialties:** Autonomous systems, embedded systems, and software engineering

**Taking on new students?** Yes

*Data Science & Cybersecurity MS  
students work with a dedicated  
Graduate Enrollment Counselor  
Kevin Alt*

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# Electrical & Computer Engineering

## [Arab, Ali](#)

**Research Specialties:** Blockchain, operations research, risk and resilience

**Taking on new students?** No

## [Bok, Sangho](#)

**Research Specialties:** Bio-medical engineering: biosensors, nanotechnology, and point-of-care systems

**Taking on new students?** Yes

## [Fan, Rui](#)

**Research Specialties:** Smart Cities, electric systems, and AI in power grids

**Taking on new students?** Yes

## [Gao, Wenzhong “David”](#)

**Research Specialties:** Renewable energy and distributed generation, microgrid, smart grid, power system protection, power electronics applications in power systems, power system modeling and simulation, and hybrid electric propulsion systems

**Taking on new students?** Yes

## [Khodaei, Amin](#)

**Research Specialist:** Smart grids, quantum computing, blockchain, and AI

**Taking on new students?** No

## [Mahmoodi, Seyed](#)

**Research Specialties:** Bio-medical engineering: electrochemical biosensors, microfluids, bioelectronics and organ-on-a-chip

**Taking on new students?** Yes

## [Mahoor, Mohammad](#)

**Research Specialties:** AI, computer vision, and social robotics

**Taking on new students?** No

## [Matin, Mohammad](#)

**Research Specialties:** Power electronics and optoelectronics materials, devices and systems, optical and bio-medical signals and image processing

**Taking on new students?** Yes

## [Ogmen, Haluk](#)

**Research Specialties:** Reverse-engineering the brain, natural and artificial intelligence, human vision, attention, and memory

**Taking on new students?** No

## [Paredes, Daniel](#)

**Research Specialties:** Bio-medical engineering: early diagnosis of neurodegenerative disease, neuronal networks, brain circuits, and biomarkers

**Taking on new students?** Yes

## [Stefanovic, Margareta](#)

**Research Specialties:** Control systems

**Taking on new students?** Yes

## [Valavanis, Kimon](#)

**Research Specialties:** Robotics and automation, unmanned systems, intelligent control, and autonomy

**Taking on new students?** Yes

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# Mechanical & Materials Engineering

## [Azadani, Ali](#)

**Research Specialties:** Cardiovascular mechanics, biofluid mechanics, and heart valve engineering

**Taking on new students?** Yes

## [Clary, Chadd](#)

**Research Specialties:** Experimental biomechanics, medical devices, and patient tracking

**Taking on new students?** No

## [Davidson, Brad](#)

**Research Specialties:** Human movement biomechanics, sports science, concussion, physical therapy, and rehabilitation

**Taking on new students?** Yes

## [Gordon, Matt](#)

**Research Specialties:** Plasma physics

**Taking on new students?** No

## [Kumosa, Maciej](#)

**Research Specialties:** High voltage/temperature materials and structure

**Taking on new students?** No

## [Laz, Peter](#)

**Research Specialties:** Computational biomechanics, probabilistic analysis, fatigue and fracture

**Taking on new students?** Yes

## [Rezazadeh, Siavash](#)

**Research Specialties:** Robotics, control, human locomotion

**Taking on new students?** Yes

## [Roney, Jason](#)

**Research Specialties:** Modeling and simulation, computational fluid dynamics, renewable energy simulation, aerosols, and environmental fluid dynamics

**Taking on new students?** Yes

## [Rullkoetter, Paul](#)

**Research Specialties:** Computational biomechanics and joint implant mechanics

**Taking on new students?** Yes

## [Sabick, Michelle](#)

**Research Specialties:** Human movement biomechanics, mechanics of the shoulder and elbow, and biomechanics of baseball pitching

**Taking on new students?** Yes

## [Shelburne, Kevin](#)

**Research Specialties:** Measurement of human biomechanics, multiscale musculoskeletal modeling, simulation of orthopaedic pathology and treatment

**Taking on new students?** No

## [Yi, Yun-Bo](#)

**Research Specialties:** Computational mechanics, advanced materials modeling, and mechanical instabilities

**Taking on new students?** No

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# Academic Departments & Graduate Programs

## COMPUTER SCIENCE

Chair Dr. Chris GauthierDickey | [Chris.Gauthierdickkey@du.edu](mailto:Chris.Gauthierdickkey@du.edu)

*Assistant to the Chair Meredith Corley | [Meredith.Corley@du.edu](mailto:Meredith.Corley@du.edu)*

- MS Computer Science
- PhD Computer Science
- MS Cybersecurity
- MS Data Science

*Add CS on Slack! [compscidu.slack.com](https://compscidu.slack.com)*

## ELECTRICAL & COMPUTER ENGINEERING

Chair Dr. David Gao | [David.Gao@du.edu](mailto:David.Gao@du.edu)

*Assistant to the Chair Natalie Gregg | [Natalie.Gregg@du.edu](mailto:Natalie.Gregg@du.edu)*

- MS Computer Engineering
- MS Electrical Engineering
- MS Mechatronics Systems Engineering
- PhD Electrical & Computer Engineering
- PhD Mechatronics System Engineering

## MECHANICAL & MATERIALS ENGINEERING

Chair Dr. Peter Laz | [Peter.Laz@du.edu](mailto:Peter.Laz@du.edu)

*Assistant to the Chair Sandra Hovey | [Sandra.Hovey@du.edu](mailto:Sandra.Hovey@du.edu)*

- MS Bioengineering
- MS Engineering
- MS Materials Science
- MS Mechanical Engineering
- PhD Engineering
- PhD Materials Science
- PhD Mechanical Engineering



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