ECE Graduate Student Research Opportunities
August 21, 2023

Research opportunities with ECE faculty are available! **Please email** the researcher directly for more information or to communicate your interest.

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Ali Bilgin's lab is seeking multiple assistants interested in conducting research in applications of signal processing, image processing, and machine learning to magnetic resonance imaging. A successful candidate will have suitable courses in signal processing, image processing, and machine learning. Previous research experience is of advantage and preference will be given to doctoral students.

Contact: Dr. Ali Bilgin

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The Cloud and Autonomic Computing Lab, directed by Salim Hariri, is seeking students to help to develop the Cybersecurity Lab as a Service (CLaaS) webpage, virtual cybersecurity experiments and improve the website for CLaaS. Expertise in Javascript, React and Redux required.

Contact: Dr. Salim Hariri

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The Cloud and Autonomic Computing Lab, directed by Salim Hariri, is seeking students to help develop an IoS mobile and AI driven app to monitor the movement of patients that can be used to detect early Alzheimer's, Parkinson's, and gait problems. Expertise needed: Javascript, Apple IoS, and Mobile App development for IoS. The opportunity can be hourly support or RA.

Contact: Dr. Salim Hariri

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Seeking advanced undergraduate or graduate students interested in pursuing advanced degrees at the University of Arizona in engineering, computer science or applied mathematics. These are a multi-year (20 hours/week) assistantships, with the opportunity to work additional hours over the summer months. A broad range of research opportunities are available within the broad theme of supporting data-informed decision-making in higher education. This work will expose students to current topics in data analytics, machine learning and statistical modeling, while using leading-edge software tools and information infrastructures (e.g., cloud computing services, data warehousing systems, web application frameworks, social networking platforms, etc.). Students will develop skills that are highly valued in high-tech industries. Successful candidates will be advanced undergraduate, master's or doctoral students in good standing, with a strong interest in modern software development practices and solid math skills; but most important, this work requires an inquisitive nature, and the ability to pick up and learn general concepts and technologies quickly and independently. Excellent communication (written and oral) and interpersonal skills are required in order to present research results and prepare technical publications.

Contact Dr. Gregory Heileman

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Seeking Ph.D. students to conduct research in deep learning with computationally efficient models, specifically focusing on embedded computer vision systems and medical imaging applications.

Contact: Dr. Eung-Joo Lee

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Assistant needed to detect and recognize objects in infra-red images and develop algorithms for learning new object classes using few training images. A relevant background in the understanding of signal/image processing, machine learning/computer vision and experience with MATLAB and/or Python required. Interested students are encouraged to inquire.

Contact: Dr. Abhijit Mahalanobis

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Opportunity for research for a doctoral level student in the area of surgical robotics/AI/simulation in Jerzy Rozenblit's laboratory.

Contact: Dr. Jerzy Rozenblit

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Seeking Ph.D. students for Salehi research lab.

Contact: Dr. Soheil Salehi

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The Systems and Security Lab, directed by Pratik Satam, is seeking Ph.D. students to conduct research on Cybersecurity, focusing on Cyber Physical Systems Security (Industry 4.0 and Autonomous Vehicles) using Artificial Intelligence. This position includes a Research Assistantship (0.5 RA).

Contact: Dr. Pratik Satam

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