

Sayyed Sina Miran

AY 2018-19 All-S.T.A.R. Fellow

A. James Clark School of Engineering

Department of Electrical and Computer Engineering

5th year Graduate Student, RA



During my first three semesters at UMD, I served as a TA for one graduate and two undergraduate courses, and I was fortunate to be recognized as an ECE Distinguished TA in 2015. In the following year, I served as a TA Training and Development Fellow in the ECE department, which gave me the unique opportunity of mentoring first-time TAs and presenting teaching workshops. Through these appointments, I was able to significantly improve my communication and presentation skills, and relish the joy of helping first-time TAs and students.

I have also been fortunate to work with Prof. Behtash Babadi during the past five semesters as an RA. My critical thinking and time management skills have significantly improved as a result of this appointment. Broadly speaking, my dissertation aims at devising efficient solutions for high-dimensional and nonlinear neural inverse problems. In my most recent project, I designed a real-time algorithm for tracking the selective auditory attention from magnetoencephalography (MEG) or electroencephalography (EEG) data with applications to smart hearing aids and brain-computer interface systems. During this project, I was able to collaborate with researchers in both academia and industry and immensely benefited from their diverse, yet inclusive, scientific perspectives. I was a finalist for the Best Student Paper Award at the 42nd International Conference on Acoustics, Speech and Signal Processing (ICASSP), and my research endeavors have been recognized by a Graduate Student Travel Award from the Institute for Systems Research and an Outstanding Graduate Assistant Award from UMD's graduate school.