Wei-Chen (Eric) Wang

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Education

Sept 2020 - Present	**Massachusetts Institute of Technology**　　　　　Cambridge, MA Ph.D. student Electrical Engineering and Computer Science. GPA: 5.0/5.0 Thesis: in progress (advisor: Prof. Lizhong Zheng)
Sept 2016 - May 2020	**University of Illinois at Urbana-Champaign**　　　　　Urbana, IL B.S. Computer Science, B.A. Economics, minor in statistics. GPA: 4.0/4.0 James Scholar, Summa Cum Laude. Thesis: "Changing Concepts of Traffic with an Increasing Percentage of Autonomous Vehicles" (advisor: Prof. Neal Davis)

Experience

Sept 2020 - Present	**Graduate Research Assistant**, MIT EECS　　　　　Cambridge, MA Analyzed how covariance matrix of feature functions changes during neural network training. Explored how orthogonalizing feature functions can optimize the training process and accelerate its convergence.
Feb 2019 - June 2020	**Undergraduate Research Assistant**, UIUC ACES　　　　　Urbana, IL Trained Keras machine learning models to detect fertilizer adulteration, and established connection with MMS. Assisted front-end development and enhanced model accuracy.
Jan 2019 - May 2020	**Co-Chair and Cooperative Officer,** UIUC IPL　　　　　Urbana, IL Organized social events, weekly meetings and coding competitions for the Illinois Programming League. Maintained relations with existing and future sponsors, secured $3,500 from Caterpillar.
July 2017 - Aug 2017	**Research Intern**, Taiwan Microsoft IoT Innovation Center　　　Taipei, Taiwan Deployed IoT robots capable of responding to users' natural language commands. Designed an interactive system using Microsoft Azure, IoT Hub, Translator Text API and LUIS.

Awards and Honors

May 2020	Bronze Tablet. UIUC.
May 2020	Highest Honors. Computer Science, College of Engineering, UIUC.
Oct 2019	Omicron Delta Epsilon Honor Society, UIUC.
Dec 2018	Tau Beta Pi Honor Society, UIUC Illinois Alpha Chapter.

Teaching Experience

Department of Computer Science, UIUC　　　　　Urbana, IL

Spring 20	**Course Assistant & Grader**, CS 374 Algorithm and Models of Computation
Spring 20	**Grader**, CS 411 Database Systems
SP 18 - SP 20	**Course Assistant**, CS 101 Intro to Computing for Engineers and Scientists
Spring 18	**Course Assistant**, CS 125 Introduction to Computer Science