Eric Chuu

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I am a first year Statistics PhD student at Texas A&M University, and I'm interested in problems related to machine learning and artificial intelligence. I enjoy working on difficult programming problems that involve large datasets and complex models.

Education

Texas A&M University	**College Station, TX**
PhD, Statistics	*Expected: 2022*

UCLA	**Los Angeles, CA**
Bachelor of Science, Mathematics of Computation, Statistics	*June 2017*

Computer Science Coursework: Data Structures, Algorithms, Computer Systems

Quantitative Coursework: Probability, Machine Learning, Optimization, Real Analysis, Linear Algebra, Linear Models

Notable Projects

Facial Reconstruction, Discrimination, Detection
- Reconstructed faces with 20 numbers (originally 256) using principle component analysis to extract key features
- Calculated the Fisherface to develop an algorithm to distinguish between male/female faces
- Implmented AdaBoost and RealBoost in conjunction with the Viola-Jones object detection framework to develop an algorithm that could detect faces from input images

Erg Logger
- Developed an mobile app to extract numeric data from images taken of LCD screens located on rowing machines
- Created an environment for rowers to easily log their times, track progress, and compete against other rowers

NBA Forecasting Project
- Developed statistical models that used past player statistics to predict player performance in future games
- Implemented linear dimension reduction (low-dimension embedding) and feature selection techniques (PCA, Ridge Regression, LASSO) to improve predictive ability of models

Computer Skills

- **Programming Languages:** Java, C, C++, Python, R, MATLAB, Lua
- **General:** Eclipse, IntelliJ, Visual Studio, Linux/Unix, Ubuntu, Git, LaTeX

Work/Leadership Experience

Department of Medicine Statistics Core	**Los Angeles, CA**
Assistant Statistician	*October 2016 – June 2017*

- Aid resident statisticians with data management and database design/setup with the goal of efficiently processing client data and creating manuscripts
- Create visualizations of client data and suggest appropriate statistical models to more easily interpret the data and make informed and statistically-backed decisions

UCLA Statistics Club	**Los Angeles, CA**
Career Development/Outreach Chair	*May 2016 – Present*

- Responsible for reaching out to UCLA Statistics alumni in industry and/or graduate school to invite them to panel sessions so current students can make job-related inquiries or ask for academic advice
- Hold weekly tutoring sessions for students in lower-division statistics classes

UCLA Datafest	**Los Angeles, CA**
Planning/Marketing Committee, Participant	*December 2015 – June 2016*

- Organized the marketing and publicity end of a data science/analysis competition in which teams attempted to gain the best insight on a given dataset over a span of 48 hours
- Awarded runner-up for best visualization for a descriptive heat map that showed domestic travel trends