

Jason Zhang

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EDUCATION

AUG 2015
to MAY 2019 | **University of California, Berkeley**
GPA: 3.98

- Majors: Computer Science, Statistics
- Relevant Coursework: Algorithms, Artificial Intelligence, Computer Architecture, Machine Learning, Probability Theory, Linear Algebra
- Current Coursework: Algorithmic Human-Robot Interaction, Operating Systems, Real Analysis
- Affiliated with: Upsilon Pi Epsilon

WORK EXPERIENCE

JAN 2017
to PRESENT | Undergraduate Researcher at InterACT Lab
UC Berkeley, Berkeley, CA

- Working with Professor Anca Dragan to develop learning algorithms for high-DOF robots to plan optimal trajectories and more efficiently propagate human corrections
- Designed a trajectory preference perceptron that iteratively replans smooth paths to reflect user spatial preferences, written in Python and simulated in OpenRAVE

MAY 2017
to AUG 2017 | Software Engineer Intern
LinkedIn, Sunnyvale, CA

- Deployed web application to automate requests for and installation of external library plugins for integration with internal LinkedIn tools using MySQL and Flask backend and jQuery frontend.
- Built data pipeline to monitor post-commit build error rates and product health using Hadoop and Pig

JUN 2016
to MAY 2017 | Course Developer and Student Instructor for Statistics 140 (Prob140)
UC Berkeley, Berkeley, CA

- Worked with Professor Ani Adhikari to write an upper-division “Probability for Data Science” class in UC Berkeley’s new Data Science department
- Wrote course materials including curriculum, problem sets, labs, and a Python library
- Developed and maintained back-end for course including class website (prob140.org/sp17)
- Taught lab sections and held office hours as an Undergraduate Student Instructor for the pilot run of the course in Spring 2017

JUN 2016
to SEP 2016 | Developer for Smart Recorder iOS app
Roe Mobile Development, LLC, Potomoc, MD

- Finalized recording and transcription app for iOS 10 release by incorporating new transcription API and fixing critical bugs.
- Developed new features and utilities in Objective-C and Python

SKILLS

LANGUAGES: Python, Java, R
LIBRARIES: NumPy, SciPy, Matplotlib, TensorFlow, OpenRAVE, jQuery
SOFTWARE: Git, IntelliJ/PyCharm, VMware, \LaTeX

PROJECTS

- **PROB140 LIBRARY:** A Data Science library geared toward probability theory written for Prob140 in Python. Supports graphical visualization and computational tools for finite, infinite, joint, and continuous probability distributions as well as Markov Chains and other random processes. (gitlab.com/probability/prob140)
- **CONVNET:** An ensemble of deep Convolutional Neural Networks written with TensorFlow to classify handwritten letters, achieving 95% accuracy. Demo at jasony Zhang.com/convnet
- **SELF-PLANNING TPP:** A generalized algorithm that iteratively re-plans smooth trajectories for arbitrary robots with high degrees-of-freedom to efficiently learn from user-given corrections. Written in Python and C++.