

KATHY JANG

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Personal Website: kathyjang.com

EDUCATION

University of California, Berkeley Berkeley, CA
Bachelor of Arts, Computer Science | GPA: 3.37
Aug 2014 - May 2018
GPA: 3.37

University College London London, UK
Affiliate Student, Arts & Sciences
Sept 2016 - Dec 2016

Lynbrook High School San Jose, CA
High School Diploma
Aug 2010 - June 2014
GPA: 3.95

RELEVANT COURSEWORK

Data Structures and Advanced Programming | Discrete Mathematics and Probability Theory | Linear Algebra and Differential Equations | Networking and Internet Architecture | Computational Complexity | Machine Structures | Algorithms | Electrical Engineering | Operating Systems | Machine Learning | Computer Security | Ruby on Rails

TECHNICAL SKILLS

Proficiency: Python, Java, Go, Git, Linux, OSX, Cloud Computing, ML libraries, testing/debugging, Agile, technical writing

Familiar: C, SQL, HTML/CSS, VirtualBox, Docker, Ruby on Rails, Photoshop, InDesign

FEATURED PROJECTS

Gitlet

Designed, developed, tested version-control system similar to Git that supports the commands `init`, `add`, `commit`, `rm`, `log`, `find`, `status`, `checkout`, `branch`, `reset`, `merge` - Java

Flow

Flow is a framework for benchmarking reinforcement learning in traffic control. Designing intersection controllers for traffic intersections for full and mixed-autonomy vehicles - Python

WORK EXPERIENCE

Lawrence Berkeley National Laboratory Berkeley, CA
Jan 2019 - present

Scientific Engineering Associate

- Advised by Profs. Thomas Kirchstetter & Alexandre Bayen
- Researching optimal control via deep reinforcement learning methods with a focus on energy and environmental analysis

Berkeley AI Research Lab Berkeley, CA
Aug 2017 - present

ML Researcher

- Advised by Prof. Alexandre Bayen
- Using deep reinforcement learning techniques to train controllers for autonomous vehicles and demonstrate their ability to decrease traffic congestion
- Exploring methods to enable zero-shot policy transfer of simulated policies to the physical domain
- Developing open-source framework *Flow* for traffic flow optimization via RL, with demonstrated improvements in average velocity, at <https://github.com/flow-project>
- Author of *Benchmarks for reinforcement learning in mixed-autonomy traffic*, accepted at CORL 2019
- First author of *Simulation to scaled city: zero-shot policy transfer for traffic control via autonomous vehicles*, accepted at ICCPS 2019.

Intel Corporation Hillsboro, OR
May 2017 - Aug 2017

Cloud Solutions Engineering Intern

- Drove cloud solutions for cloud service providers Baidu and Salesforce to achieve full data center automation
- Analyzed customer data and simulated data to develop trained machine learning models for SSD and DIMM failure prediction in Python, using correlation and Markov models

Software-Defined Infrastructure Intern May 2016 - Dec 2016

- Adding features, authoring plugins, debugging issues, optimizing for Snap, an open source telemetry framework
- Led team in programming a Snap use case from scratch, which is featured at vimeo.com/189179198. Configured VM networking, used API, conducted end-to-end testing
- Immersion in layers of the data center stack, including exposure to containers, virtualization, scheduling

Specialized Bicycle Components Morgan Hill, CA
June 2015 - Aug 2015

Software Engineering Intern

- Wrote an internal web page with JavaScript, HTML, and CSS; used to display customer information for their b2b branch
- Wrote scripts to database customer information to be displayed on said web page

AWARDS

- The Leadership Scholarship
- Dean's Honors Fall 2014
- Berkeley Study Abroad Scholarship 2016
- Recurse Center Winter 2019 Fellowship