Jenny Wang

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CONTACT
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(408) 500-9167
himty.github.io

EDUCATION
Carnegie Mellon ('22-'27)
Robotics Institute (PhD)

UC Berkeley ('18-'22)
3.91 GPA
Computer Science (BA)
GRE: 162V 170Q 4.5W

COURSEWORK
• Deep RL
• Data Structures
• Intro to Robotics
• Feedback Control
  Systems
• Optimization Models
• Machine Structures

SKILLS
• Teamwork
• Machine Learning
• AWS, SSH, Git
• Jupyter Notebooks
• Scrum development

LANGUAGES
Python, C, MATLAB,
Java, Javascript

LIBRARIES
PyTorch, PyBullet,
OpenCV, CARLA, ROS,
ReactJS, OpenAI Gym

AWARDS
• Uber Presidential
  Fellowship (2024)
• Western Digital
  Scholarship for STEM
  (2019, 2020)
• Edward Frank Kraft
  Award for Freshmen
  (2018)
• The President's
  Volunteer Service
  Award (2012-2017)

PUBLICATIONS
• **Wang, J.***, Donca, O.*, & Held, D. (2024). Learning Distributional Demonstration Spaces for Task-Specific Cross-Pose Estimation. *IEEE International Conference on Robotics and Automation*.
• Rhinehart, N., **Wang, J.**, Berseth, G., Co-Reyes, J., Hafner, D., Finn, C., & Levine, S. (2021). Information is Power: Intrinsic Control via Information Capture. *Advances in Neural Information Processing Systems*, *34*.
• Ohlson, G., Bonilla Fominaya, A. M., Puthuveetil, K., **Wang, J.**, Amspoker, E., & McCann, J. (2023, October). Estimating Yarn Length for Machine-Knitted Structures. In *Proceedings of the 8th ACM Symposium on Computational Fabrication* (pp. 1-9).

EXPERIENCE
PhD Student   Aug. 2022 - Present
Robots Perceiving and Doing (RPAD) Lab w/ David Held
• Researching multimodal, SE(3)-equivariant representations for imitation learning in robotic manipulation.

Undergraduate Researcher   Sept. 2019 - Aug 2022
Robotic AI and Learning Lab (RAIL) w/ Sergey Levine and Nick Rhinehart
• Researched intrinsically-motivated reinforcement learning agents in partially-observed, dynamic environments.
• Experimented in Real2Sim transfer in autonomous driving with various representations and Deep Imitative Models.

Perception Team Task Manager   Aug. 2018 - Dec. 2020
Underwater Robotics at Berkeley
• Coordinated efforts for a simulator using Gazebo, ROS, Docker.
• Researched object detection, underwater stereo odometry with camera calibration, adaptive color thresholding, and more.
• Helped present about Visual Position Estimation at CalHacks 5.0.
• Recruited members with Piazza posts and class announcements.

Amazon SDE Intern   Summer 2019, 2020
Amazon
• Launched a tool's file editing and management portal, with a ReactJS frontend and serverless backend using Lambda, API Gateway, Route 53, and S3. Set up user authentication with Amazon credentials and CORS.
• Deployed frontend of an internal tool's website using ReactJS, NodeJS, and Jest, which used HTTP requests.
• 1st place hackathon team of 4- Alexa skill guiding conversations for parents, students, and teachers in Seattle Nativity School.

Research Intern   Summer 2017
Biomicroscopy Lab at Boston University
• Identified cell signatures for the paper High-throughput label-free flow cytometry based on matched-filter compressive imaging

Research Intern   Summer 2016
The Whitney Laboratory at UC Berkeley
• Confirmed retail brand's effects on ensemble coding.

OTHER ACTIVITIES

Volunteer Clarinetist for 2021 Explore Martial Cottle Park	Fall 2021
Reader for EECS189	Spring 2022
Reader for EE120	Fall 2021
Tutor for CS61A and EECS16A	Fall 2020
Academic Intern for CS61A	*Spring 2019*
Volunteer for San Jose Bubble Run	Spring 2019
Clarinetist in the University Wind Ensemble	2019 - 2020