Jason Liu

Education

2018 - 2023 Ph.D. in Computer Science, Brown University, Providence, RI.

Advisor: Stefanie A. Tellex

Research: POMDP Planning, Reinforcement Learning, Human-Robot Interaction,

Natural Language Processing, Computer Vision

2014 – 2017 B.S. in Electrical Engineering and Computer Sciences, University of California,

Berkeley, Berkeley, CA.

Advisor: Ken Goldberg, David Wagner Research: Robotic Grasping, Usable Security

Selected Papers

RSS-W 2021 Leveraging Temporal Structure in Task Specifications for POMDP Planning.

Xinyu Liu, Eric Rosen, Suchen Zheng, Tyler Edward, George Konidaris, Stefanie

Tellex.

Robotics: Science and Systems (RSS) 2021 Workshop Robotics for People 2021.

2019 Specificity-Controlled Video Captioning.

Xinyu Liu, Ellie Pavlick, Daniel Ritchie, Stefanie Tellex.

Unpublished Manuscript 2019.

ICRA 2018 Dex-Net 3.0: Computing Robust Vacuum Suction Grasp Targets in Point Clouds

Using a New Analytic Model and Deep Learning.

Jeffrey Mahler, Matthew Matl, Xinyu Liu, Albert Li, David Gealy, Ken Goldberg.

IEEE International Conference on Robotics and Automation (ICRA) 2018.

ICISS 2018 Detecting Phone Theft Using Machine Learning.

Xinyu Liu, David Wagner, Serge Egelman.

International Conference on Information Science and System (ICISS) 2018.

RSS 2017 Dex-Net 2.0: Deep Learning to Plan Robust Grasps with Synthetic Point Clouds

and Analytic Grasp Metrics.

Jeffrey Mahler, Jacky Liang, Sherdil Niyaz, Michael Laskey, Richard Doan, Xinyu

Liu, Juan Aparicio Ojea, Ken Goldberg.

Robotics: Science and Systems (RSS) 2017.

Professional Experience

Summer 2020 **Research Assistant**, *Brown University*, Providence, RI, Advised by Stefanie Tellex, George Konidaris.

Summer 2019 Research Assistant, Brown University, Providence, RI, Advised by Stefanie Tellex.

Summer 2018 Research Assistant, Brown University, Providence, RI, Advised by Stefanie Tellex.

2017 – 2018 **Research Assistant**, *University of California, Berkeley*, Berkeley, CA, Advised by Ken Goldberg, David Wagner.

Summer 2016 **Research Assistant**, *University of California, Berkeley*, Berkeley, CA, Advised by David Wagner.

Summer 2015 **Software Engineer**, NetSuite, San Mateo, CA.

Skills

Computing Python, PyTorch, TensorFlow, Java, C++, MATLAB, Unity, Linux, LATEX.

Language English, Chinese.

Relevant Coursework

Brown Learning and Sequential Decision Making.

University Advanced Probabilistic Methods in Computer Science.

Computational Linguistics. Computational Semantics.

Computer Vision for Graphics and Interaction.

UC Berkeley Algorithmic Human-Robot Interaction.

Optimization Models in Engineering. Introduction to Machine Learning.

Awards and Honors

Brown National Science Foundation Graduate Research Fellowship Program.

University Jack Kent Cooke Graduate Fellowship.

UC Berkeley Tau Beta Pi, National Engineering Honor Society, Fall 2014.

Eta Kappa Nu, National EECS Honor Society, Fall 2014.

Term Honor: Honors to Date, Fall 2014, Spring 2015.

Service

Brown CS **Google exploreCSR** (explorecsr.cs.brown.edu). 2020-2021. **First-year PhD mentor**. 2020-2021.