

EDUCATION

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|---|----------------|
| University of Washington Ph.D., Computer Science, 3.84 GPA | 2017 – present |
| Carnegie Mellon University Ph.D., Robotics, 4.00 GPA (<i>transferred to UW with Prof. Siddhartha Srinivasa</i>) | 2016 – 2017 |
| University of California, Berkeley B.S., Electrical Engineering and Computer Science, 3.85 GPA | 2012 – 2016 |

EXPERIENCE

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|---|----------------|
| Personal Robotics Lab <i>University of Washington; Carnegie Mellon University</i> Advisor: Siddhartha S. Srinivasa | 2016 – present |
| Automation Sciences Lab <i>University of California, Berkeley</i> Advisor: Ken Goldberg | 2015 – 2016 |

HONORS & AWARDS

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| NASA Space Technology Research Fellowship | 03/2017 – 12/2021 |
| UC Berkeley Outstanding Graduate Student Instructor Award | 05/2016 |
| NSF Graduate Research Fellowship Honorable Mention | 03/2016 |
| UC Berkeley EECS Honors Degree Program | 08/2014 – 05/2016 |
| UC Berkeley Regents' and Chancellor's Scholar | 03/2012 – 05/2016 |

TEACHING

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|---|-------------|
| Autonomous Robotics (<i>Course Instructor</i>) | Spring 2021 |
| Robotics: Algorithms and Applications (<i>Teaching Assistant</i>) | Winter 2019 |
| Structure and Interpretation of Computer Programs (<i>Course Instructor</i>) | Summer 2016 |
| Introduction to Machine Learning (<i>Teaching Assistant</i>) | Spring 2016 |
| Introduction to Artificial Intelligence (<i>Teaching Assistant</i>) | Summer 2014 |
| | Fall 2015 |
| | Spring 2015 |
| Structure and Interpretation of Computer Programs (<i>Teaching Assistant</i>) | Fall 2014 |
| | Fall 2013 |
| | Summer 2013 |

CONFERENCE PUBLICATIONS

Bayesian Residual Policy Optimization: Scalable Bayesian Reinforcement Learning with Clairvoyant Experts

Gilwoo Lee, Brian Hou, Sanjiban Choudhury, Siddhartha S. Srinivasa.
IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), 2021.

Posterior Sampling for Anytime Motion Planning on Graphs with Expensive-to-Evaluate Edges

Brian Hou, Sanjiban Choudhury, Gilwoo Lee, Aditya Mandalika, Siddhartha S. Srinivasa.
IEEE International Conference on Robotics and Automation (ICRA), 2020.

Bayesian Policy Optimization for Model Uncertainty

Gilwoo Lee, Brian Hou, Aditya Mandalika, Jeongseok Lee, Sanjiban Choudhury, Siddhartha S. Srinivasa.
International Conference on Learning Representations (ICLR), 2019.

Efficient Motion Planning for Problems Lacking Optimal Substructure

Oren Salzman, Brian Hou, Siddhartha S. Srinivasa.
International Conference on Automated Planning and Scheduling (ICAPS), 2017.

Privacy-Preserving Cloud-Based Grasp Planning

Jeffrey Mahler, Brian Hou, Sherdil Niyaz, Florian T. Pokorny, Ramu Chandra, Ken Goldberg.
IEEE International Conference on Automation Science and Engineering (CASE), 2016.
Finalist, Best Student Paper Award

Dex-Net 1.0: A Cloud-Based Network of 3D Objects for Robust Grasp Planning Using a Multi-Armed Bandit Model with Correlated Rewards

Jeffrey Mahler, Florian T. Pokorny, Brian Hou, Melrose Roderick, Michael Laskey, Mathieu Aubry, Kai Kohlhoff, Torsten Kroeger, James Kuffner, Ken Goldberg.
IEEE International Conference on Robotics and Automation (ICRA), 2016.
Finalist, Best Manipulation Paper Award

Fuzz Testing Projects in Massive Courses

Sumukh Sridhara, Brian Hou, Jeffrey Lu, John DeNero.
ACM Conference on Learning @ Scale (L@S), 2016.

Problems Before Solutions: Automated Problem Clarification at Scale

Soumya Basu, Albert Wu, Brian Hou, John DeNero.
ACM Conference on Learning @ Scale (L@S), 2015.