

Shervin Javdani

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Education

- 2011–Present **PhD in Robotics**, *The Robotics Institute, Carnegie Mellon University*, GPA – 4.0.
Advisors: J. Andrew (Drew) Bagnell and Siddhartha S. Srinivasa
- 2011–2014 **MS in Robotics**, *The Robotics Institute, Carnegie Mellon University*.
- 2006–2010 **BS in Electrical Engineering and Computer Science (with High Honors)**, *The University of California, Berkeley*, GPA – 3.88 In-Major, 3.81 Overall.
Advisors: Pieter Abbeel and Ken Goldberg

Publications

- Auton Robot 2017 Katharina Muelling, Arun Venkatraman, Jean-Sebastien Valois, John Downey, Jeffrey Weiss, **Shervin Javdani**, Martial Hebert, Andrew B. Schwartz, Jennifer L. Collinger, and J. Andrew (Drew) Bagnell. Autonomy Infused Teleoperation with Application to Brain Computer Interface Controlled Manipulation. In *Autonomous Robots*, 2017.
- IROS 2016 Stefania Pellegrinelli, Henny Admoni, **Shervin Javdani**, and Siddhartha Srinivasa. Human-Robot Shared Workspace Collaboration via Hindsight Optimization. In *IEEE/RSJ International Conference on Intelligent Robots and Systems*, 2016.
- RSS 2015 Katharina Muelling, Arun Venkatraman, Jean-Sebastien Valois, John Downey, Jeffrey Weiss, **Shervin Javdani**, Martial Hebert, Andrew B. Schwartz, Jennifer L. Collinger, and J. Andrew (Drew) Bagnell. Autonomy Infused Teleoperation with Application to BCI Manipulation. In *Robotics: Science and Systems*, 2015. **Best Systems Paper Award**
- RSS 2015 **Shervin Javdani**, J. Andrew (Drew) Bagnell, and Siddhartha Srinivasa. Shared Autonomy via Hindsight Optimization. In *Robotics: Science and Systems*, 2015
- AAAI 2015 Yuxin Chen, **Shervin Javdani**, Amin Karbasi, J. Andrew (Drew) Bagnell, Siddhartha Srinivasa, and Andreas Krause. Submodular Surrogates for Value of Information. In *AAAI Conference on Artificial Intelligence*, 2015.
- AISTATS 2014 **Shervin Javdani**, Yuxin Chen, Amin Karbasi, Andreas Krause, J. Andrew (Drew) Bagnell, and Siddhartha Srinivasa. Near Optimal Bayesian Active Learning for Decision Making. In *International Conference on Artificial Intelligence and Statistics*, 2014.
- ICRA 2013 **Shervin Javdani**, Matthew Klingensmith, J. Andrew (Drew) Bagnell, Nancy Pollard, and Siddhartha Srinivasa. Efficient Touch Based Localization through Submodularity. In *IEEE International Conference on Robotics and Automation*, 2013. **Best Manipulation Paper Award Finalist**

ICRA 2011 **Shervin Javdani**, Sameep Tandon, Jie Tang, James F. O'Brien, and Pieter Abbeel. Modeling and Perception of Deformable One-Dimensional Objects. In *IEEE International Conference on Robotics and Automation*, 2013.

Workshops

- RSS 2016 **Shervin Javdani**, J. Andrew (Drew) Bagnell, and Siddhartha Srinivasa. Learning User Models During Shared Autonomy. In RSS Workshop on Planning for Human-Robot Interaction, 2016.
- RSS 2016 Rachel Holladay, **Shervin Javdani**, Anca Dragan, and Siddhartha Srinivasa. Active Comparison Based Learning Incorporating User Uncertainty and Noise. In RSS Workshop on Model Learning for Human-Robot Communication, 2016.
- HRI 2016 **Shervin Javdani**, J. Andrew (Drew) Bagnell, and Siddhartha Srinivasa. Minimizing User Cost for Shared Autonomy. In HRI Pioneers Workshop, 2016.
- RSS 2014 **Shervin Javdani**, Yuxin Chen, Amin Karbasi, Andreas Krause, J. Andrew (Drew) Bagnell, and Siddhartha Srinivasa. Decision Region Determination for Touch Based Localization. In RSS Workshop on Information-based Grasp and Manipulation Planning, 2014.
- ICRA 2013 **Shervin Javdani**, J. Andrew (Drew) Bagnell, and Siddhartha Srinivasa. Efficient Task Dependent Localization through Submodularity. In ICRA 2013 Mobile Manipulation Workshop on Interactive Perception, 2013.

Positions Held

- 2010-2011 **Research Staff**, *The University of California, Berkeley*, Advisors: Pieter Abbeel and Ken Goldberg.
Sensing and modelling of suture, towards autonomous suturing for medical robots.
- Summer 2009 **Software Development Intern**, *Microsoft, Inc.*, MSN Video.
Improved search functionality within MSN Video using closed captioning text.
- Summer 2004 **Red Team Member**, *Carnegie Mellon University*.
High school student intern. Performed diagnostics on navigation components on Sandstorm, a vehicle for the DARPA Grand Challenge.

Awards and Honors

- HRI Pioneer, 2016
- Best Systems Paper Award, RSS 2015
- Best Manipulation Paper Award Finalist, ICRA 2013
- National Science Foundation Graduate Research Fellowship, 2011-2016
- High Honors Graduation Distinction, UC Berkeley, 2010
- Eta Kappa Nu, Honor Society. Inducted 2007. Chapter President 2009
- Tau Beta Pi, Honor Society. Inducted 2007.

Talks

- 2016 **User Modeling and Decision Making for Shared Autonomy**, *Guest Lecture, Carnegie Mellon University*
- 2015 **Learning Policies for Shared Autonomy**, *Carnegie Mellon University, PhD Proposal*
- 2014 **Gathering Information for Decision Making in Touch Based Localization**, *Carnegie Mellon University, PhD Speaking Qualifier*
- 2014 **Decision Region Determination for Touch Based Localization**, *RSS Workshop on Information-based Grasp and Manipulation Planning*
- 2013 **Efficient Touch Based Localization through Adaptive Submodularity**, *Guest Lecture, Carnegie Mellon University*
- 2013 **Efficient Touch Based Localization through Adaptive Submodularity**, *TU Darmstadt*