Rohan Chitnis

ronuchit@berkeley.edu
www.rohanchitnis.com
https://github.com/ronuchit

Education	**University of California, Berkeley**, Berkeley, CA

University of California, Berkeley, Berkeley, CA
GPA: 3.945
Bachelor of Science in Electrical Engineering and Computer Sciences, May 2016.
Relevant Coursework: Advanced Robotics, Machine Learning, Statistical Learning Theory, Artificial Intelligence, Computer Vision, Graphics, Computational Geometry, Image Processing, Probability and Random Processes, Algorithms, Data Structures.

Research

UC Berkeley Robot Learning Lab (Adviser: Pieter Abbeel)   02/2013 - Present
- Perform work in (hierarchical) combined task and motion planning for execution of long-horizon tasks.
- Extended framework to cases of partial observability.
- Integrating reinforcement learning to improve existing approaches.
- Coordinator of lab outreach program, providing tours to visitors of varied ages.

UC Berkeley Oscii Lab (Adviser: John DeNero)   04/2015 - Present
- Conduct research in Natural Language Processing.
- Working on improving neural machine translation performance.

Publications

Variable-Length Word Encodings for Neural Translation Models
Rohan Chitnis, John DeNero.
In the proceedings of the Conference on Empirical Methods in Natural Language Processing (EMNLP), 2015.

Modular Task and Motion Planning in Belief Space
Dylan Hadfield-Menell, Edward Groshev, **Rohan Chitnis**, Pieter Abbeel.
In the proceedings of the IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), 2015.

Combined Task and Motion Planning Through an Extensible Planner-Independent Interface Layer
Siddharth Srivastava, Eugene Fang, Lorenzo Riano, **Rohan Chitnis**, Stuart Russell, Pieter Abbeel.
In the proceedings of the IEEE International Conference on Robotics and Automation (ICRA), 2014.

Teaching

Lead laboratory and discussion sections twice a week, hold office hours, organize review sessions, write and grade exams, and answer questions on online forum:
CS188: Introduction to Artificial Intelligence. Fall 2015.
CS61A: Structure and Interpretation of Computer Programs. Spring 2015, Spring 2014, Summer 2013.
CS61C: Great Ideas in Computer Architecture. Fall 2014.

Honors/ Awards

Recipient of the EECS Mark D. Weiser Excellence in Computing Scholarship, 2015.
Member of the EECS Honors Degree Program.
UC Berkeley Outstanding Graduate Student Instructor (OGSI) Award recipient.
UC Berkeley Regents' and Chancellor's Scholar.

National Merit Scholar.

Industry	**eBay Inc.**, San Jose, CA. Software Engineering Intern.	05/2014 - 08/2014

- Developed an end-to-end pipeline involving data querying and machine learning to build a classification model for checkout transactions, used in determining whether to offer buyers the option to place items on hold.
- Collected data using Hadoop MapReduce under the Apache Pig framework.
- Model achieved 85% accuracy on noisy data sets, using adaptive boosting with a decision tree classifier.

Technical Skills	<u>Fluency in:</u>	Python, Java, C, C++, Scheme.
	<u>Software:</u>	Unix, Robot Operating System (ROS), OpenCV, MongoDB, Apache Pig, Hadoop MapReduce, scikit-learn, scikit-image.