

Christopher Xie

CONTACT INFORMATION	<i>E-mail:</i> chrisdxie@gmail.com, chrisxie@cs.washington.edu <i>Phone:</i> (510) 693-0502	
RESEARCH INTERESTS	Statistical Machine Learning, Probabilistic Inference	
EDUCATION	Ph.D. , University of Washington Computer Science and Engineering	September 2015 - Present
	Bachelor of Science , University of California, Berkeley Electrical Engineering and Computer Science, GPA: 3.87/4.0	May 2015
RESEARCH EXPERIENCE	Graduate Research Assistant , University of Washington Advisor: <i>Emily Fox</i>	September 2015 - Present
	<ul style="list-style-type: none">Modifying Stochastic Variational Inference for lengthy time series models including Hidden Markov Models and Autoregressive Hidden Markov Models.	
	Undergraduate Research Assistant , University of California, Berkeley Advisor: <i>Pieter Abbeel</i>	June 2014 - May 2015
	<ul style="list-style-type: none">Explored the use of Optimism-Driven Exploration with Model Predictive Control in order to learn system dynamics on the fly while performing specific tasks.Combined globally optimal planners with generic boundary value problem solvers implemented with Sequential Convex Programming to solve optimal motion planning for arbitrary dynamics.	
	Advisor: <i>Stuart Russell</i>	September 2013 - June 2014
	<ul style="list-style-type: none">Used Contingent Bayesian Networks to attack the problem of Relation Extraction. Devised a proposal distribution for Metropolis-Hastings Markov Chain Monte Carlo inference for our model of the world. Performed inference using probabilistic programming language BLOG.	
PUBLICATIONS	Christopher Xie, Jur van den Berg, Sachin Patil, Pieter Abbeel. Toward Asymptotically Optimal Motion Planning for Kinodynamic Systems using a Two-Point Boundary Value Problem Solver. <i>Proc. IEEE Int. Conf. on Robotics and Automation - ICRA, 2015.</i>	
PUBLICATIONS UNDER REVIEW	Christopher Xie, Teodor Moldovan, Sergey Levine, Sachin Patil, Pieter Abbeel. Model-based Reinforcement Learning with Parametrized Physical Models and Optimism-Driven Exploration. <i>Proc. IEEE Int. Conf. on Robotics and Automation - ICRA, 2016.</i>	
TEACHING EXPERIENCE	University of California, Berkeley , Berkeley, CA	
	<i>Teaching Assistant</i> , CS189: Introduction to Machine Learning Taught by Professor Peter Bartlett and Alyosha Efros.	January - May, 2015
	<i>Teaching Assistant</i> , CS189: Introduction to Machine Learning Taught by Professor Jitendra Malik and Alyosha Efros.	January - May, 2014
PROFESSIONAL EXPERIENCE	Google , Mountain View, CA <i>Software Engineering Intern</i> Worked on Google Glass (now known as Project Aura).	May - August, 2015

eBay, Inc., San Jose, CA

May - August, 2013

Applied Research Intern, Trust Science

Trained neural network and decision tree models to classify fraudulent activity using features extracted from clickstream data only. Optimized them to prevent loss from fraud.

International Computer Science Institute, Berkeley, CA

April 2012 - April 2013

Student Researcher, Artificial Intelligence Group

FrameNet: Developed software to collect crowdsourced data from Amazon Mechanical Turk.

MetaNet: Collaborated with linguists to create a Russian metaphor search using parsed Russian sentences to extract verb-noun relations and clustering algorithms to search for potential new metaphors.

HONORS AND
AWARDS

CSE Educators Endowed Fellowship in Computer Science & Engineering (UW)

Eta Kappa Nu Membership

Student Member of IEEE

SKILLS

Proficient in Python, Matlab, C++, Java

Skilled at Hadoop, Hadoop Streaming, Hive, bash shell scripting/automation

HOBBIES

- Taekwondo - Received medals from many national and international tournaments. Member of the Alternate Junior National Team in 2010.
- Music - Played keyboard in multiple bands, performed all over the Bay Area.