

Christopher Xie

CONTACT INFORMATION

E-mail: chrisdxie@gmail.com, chrisxie@cs.washington.edu

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RESEARCH INTERESTS

Statistical Machine Learning, Artificial Intelligence

EDUCATION

Ph.D., University of Washington September 2015 - Present
Computer Science and Engineering

Bachelor of Science, University of California, Berkeley May 2015
Electrical Engineering and Computer Science, GPA: 3.87/4.0

RESEARCH EXPERIENCE

Graduate Research Assistant, University of Washington September 2015 - Present
Advisors: *Emily Fox* and *Zaid Harchaoui*

- Currently developing deformable correlation filters for visual object tracking.

Undergraduate Research Assistant, University of California, Berkeley June 2014 - May 2015
Advisor: *Pieter Abbeel*
September 2013 - June 2014
Advisor: *Stuart Russell*

PREPRINTS

Christopher Xie, Alex Tank, Alec Greaves-Tunnell, Emily Fox. A Unified Framework for Long Range and Cold Start Forecasting of Seasonal Profiles in Time Series. *arXiv:1710.08473, 2017*

Christopher Xie, Avleen Bijral, Juan Lavista Ferres. NonSTOP: A NonSTationary Online Prediction Method for Time Series. *arXiv:1611.02365, 2016*.

PUBLICATIONS

Christopher Xie, Alex Tank, Emily Fox. A Unified Framework for Missing Data and Cold Start Prediction for Time Series Data. *NIPS Time Series Workshop, 2016*. **Best Oral Presentation**.

Christopher Xie, Teodor Moldovan, Sergey Levine, Sachin Patil, Pieter Abbeel. Model-based Reinforcement Learning with Parametrized Physical Models and Optimism-Driven Exploration. *Proc. IEEE Int. Conf. on Robotics and Automation - ICRA, 2016*.

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. *Proc. IEEE Int. Conf. on Robotics and Automation - ICRA, 2015*.

INVITED TALKS

A Unified Framework for Missing Data and Cold Start Prediction for Time Series Data. *NIPS Time Series Workshop, 2016*.

TEACHING EXPERIENCE

University of California, Berkeley, Berkeley, CA

Teaching Assistant, Machine Learning Coursera Specialization January - March, 2016
Taught by Emily Fox and Carlos Guestrin.

Teaching Assistant, CS189: Introduction to Machine Learning January - May, 2015
Taught by Professor Peter Bartlett and Alyosha Efros.

Teaching Assistant, CS189: Introduction to Machine Learning January - May, 2014
Taught by Professor Jitendra Malik and Alyosha Efros.

PROFESSIONAL
EXPERIENCE

Microsoft, Redmond, WA June - September, 2016

Research Intern

Worked on Online Learning methods for Forecasting Nonstationary Time Series.

Google, Mountain View, CA May - August, 2015

Software Engineering Intern

Worked on Google Glass (now known as Project Aura).

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

Best Oral Presentation at NIPS 2016 Time Series Workshop

National Defense Science and Engineering Graduate (NDSEG) Fellowship 2016

CSE Educators Endowed Fellowship in Computer Science & Engineering (UW) 2015

Draper Laboratory Fellowship (declined) 2015

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.