

# Christopher Xie

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## CONTACT INFORMATION

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*Website:* <https://chrisdxie.github.io/>

## RESEARCH INTERESTS

Robotics, Computer Vision, Machine Learning, Artificial Intelligence

## EDUCATION

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

**Master of Science**, University of Washington June 2017  
Computer Science and Engineering

**Bachelor of Science**, University of California, Berkeley May 2015  
Electrical Engineering and Computer Science

## RESEARCH EXPERIENCE

**Graduate Research Assistant** September 2015 - Present  
University of Washington – Seattle, WA

**Undergraduate Research Assistant** September 2013 - August 2015  
University of California, Berkeley – Berkeley, CA

## PUBLICATIONS

Christopher Xie, Yu Xiang, Arsalan Mousavian, Dieter Fox. “The Best of Both Modes: Separately Leveraging RGB and Depth for Unseen Object Instance Segmentation”. *Conference on Robot Learning - CoRL, 2019*.

Christopher Xie, Yu Xiang, Zaid Harchaoui, Dieter Fox. “Object Discovery in Videos as Foreground Motion Clustering”. *IEEE Conference on Computer Vision and Pattern Recognition - CVPR, 2019*.

Christopher Xie, Emily Fox, Zaid Harchaoui. “A Simple Adaptive Tracker with Reminiscences”. *IEEE Int. Conf. on Robotics and Automation - ICRA, 2019*.

Christopher Xie, Avleen Bijral, Juan Lavista Ferres. “NonSTOP: A NonSTationary Online Prediction Method for Time Series”. *IEEE Signal Processing Letters, 2018*.

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, Alex Tank, Emily Fox. “A Unified Framework for Missing Data and Cold Start Prediction for Time Series Data”. *NeurIPS 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”. *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”. *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. <i>NeurIPS Time Series Workshop, 2016.</i>	
TEACHING EXPERIENCE	<b>University of Washington</b> – Seattle, WA	
	<i>Teaching Assistant, Machine Learning Coursera Specialization</i>	January - March, 2016
	Taught by Emily Fox and Carlos Guestrin.	
	<b>University of California, Berkeley</b> – Berkeley, CA	
	<i>Teaching Assistant, CS189: Introduction to Machine Learning</i>	January - May, 2015
	Taught by Professor Peter Bartlett and Alyosha Efros.	
PROFESSIONAL EXPERIENCE	<i>Teaching Assistant, CS189: Introduction to Machine Learning</i>	January - May, 2014
	Taught by Professor Jitendra Malik and Alyosha Efros.	
	<b>NVIDIA</b> – Seattle, WA	March - September, 2018
	<i>Robotics Research Intern, NVIDIA Robotics Research Lab</i>	
	Worked on discovering unseen objects in novel environments.	
	<b>Microsoft</b> – Redmond, WA	June - September, 2016
	<i>Research Intern, Consumer Data and Analytics</i>	
	Worked on Online Learning methods for Forecasting Nonstationary Time Series.	
	<b>Google</b> – Mountain View, CA	May - August, 2015
	<i>Software Engineering Intern, Project Aura</i>	
HONORS AND AWARDS	Worked on Google Glass (now known as Project Aura).	
	<b>eBay, Inc.</b> – San Jose, CA	May - August, 2013
	<i>Applied Research Intern, Trust Science</i>	
	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.	
	<b>International Computer Science Institute</b> – Berkeley, CA	April 2012 - April 2013
	<i>Student Researcher, Artificial Intelligence Group</i>	
	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.	
	ICRA 2019 RAS Travel Award	2019
	Best Oral Presentation at NIPS 2016 Time Series Workshop	2016
ADVISING	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	
ADVISING	Yang Wang (UW undergrad, Sept 2018 - June 2019. next: Master of Science in Information Networking @ CMU)	

PROFESSIONAL  
ACTIVITIES

**Paper Reviewing:**

IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS) 2016

Neural Information Processing Systems (NeurIPS) 2019

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.