
Zhaohan Daniel Guo

PhD Candidate - 5th Year

Carnegie Mellon University

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EDUCATION

Carnegie Mellon University, Pittsburgh PA, US - *PhD*

2013 - NOW

Computer Science, **Adviser: Emma Brunskill**

University of Toronto, Toronto ON, Canada - *Bachelor of Science*

2009 - 2013

Computer Science and Mathematics, GPA 3.97/4.00

RESEARCH INTERESTS

- Sample efficient online reinforcement learning algorithms, with Probably Approximately Correct bounds and/or regret bounds
- Smart exploration via optimism under uncertainty and Bayesian approaches
- Sample efficient off-policy algorithms via importance sampling and approximate models with better bias-variance trade-offs
- More sample efficient deep reinforcement learning

PUBLICATIONS

2017

- Using Options and Covariance Testing for Long Horizon Off-Policy Policy Evaluation
 - Zhaohan Daniel Guo, Phil Thomas, and Emma Brunskill
 - NIPS 2017

2016

- A PAC RL Algorithm for Episodic POMDPs
 - Zhaohan Daniel Guo, Shayan Doroudi, and Emma Brunskill
 - AISTATS 2016
- PAC Continuous State Online Multitask Reinforcement Learning with Identification
 - Yao Liu, Zhaohan Daniel Guo, Emma Brunskill
 - AAMAS 2016

2015

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- Concurrent PAC RL
 - Zhaohan Guo and Emma Brunskill
 - AACL 2015

2014

- Joint Semantic Utterance Classification and Slot Filling with Recursive Neural Networks
 - Zhaohan Daniel Guo, Gokhan Tur, Wen-Tau Yih, Geoffrey Zweig
 - Spoken Language Technology Workshop (SLT) 2014

EXPERIENCE

Microsoft Research Redmond, Seattle - *Research Intern*

MAY - AUG 2014

- Explore the use of recursive neural networks in Spoken Language Understanding Tasks
- Supervisor: Geoffrey Zweig

