

# Sida I. Wang

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## Education

- 2011- **Ph.D. in Computer Science**, Stanford University  
Advisors: Christopher D. Manning and Percy Liang
- 2006-2011 **B.A.Sc. in Engineering Sciences**, University of Toronto  
Majoring in computer engineering  
Thesis: Learning to extract parameterized features by predicting transformed images  
Advisor: Geoffrey E. Hinton

## Employment

- 2014 **Intern**, Brain Team, Google
- 2010-2011 **Research Assistant**, Machine Learning Group, University of Toronto
- 2009-2010 **Staff Engineer**, Granite SemiCom
- 2009 **SDE Intern**, Search Relevance Team, Microsoft
- 2008 **SDET Intern**, SkyDrive Team, Microsoft

## Fellowships, Awards and Honors

- 2016 Outstanding Paper Award, 0.85% of submissions, ACL 2016
- 2013-2016 NSERC Postgraduate Scholarship (PGS D)  
Natural Sciences and Engineering Research Council of Canada
- 2011 School of Engineering Fellowship, Stanford University
- 2011-2012 NSERC Postgraduate Scholarship (PGS M)  
Natural Sciences and Engineering Research Council of Canada
- 2009 Microsoft Tuition Scholarship
- 2010 2nd place, University of Toronto Undergraduate Mathematics Competition
- 2010 10th place team, Putnam Mathematical Competition
- 2008 3rd place, University of Toronto Undergraduate Mathematics Competition
- 2008 85th (58 pts), Putnam Mathematical Competition
- 2008 Ranked 1/180 students in Engineering Science 1T0, Term 3
- 2007 Ranked 2/253 students in Engineering Science 1T0, Term 2
- 2007 Ranked 3/300+ students in Engineering Science 1T0, Term 1

## Teaching

- 2015            **Teaching Assistant**, CS224N Natural Language Processing, Stanford University  
2014            **Teaching Assistant**, CS229T Statistical Machine Learning, Stanford University  
2008-2010      **Tutorial Leader**, University of Toronto  
                  MAT194 Calculus I, MAT195 Calculus II, MAT185 Linear Algebra

## Publications

- S. I. Wang, P. Liang, and C. Manning. Learning language games through interaction. In *Association for Computational Linguistics (ACL)*, 2016.
- S. I. Wang, A. Chaganty, and P. Liang. Estimating mixture models via mixture of polynomials. In *Advances in Neural Information Processing Systems (NIPS)*, 2015.
- R. Frostig and S. I. Wang. A sub-constant improvement in approximating the positive semidefinite Grothendieck problem. *arXiv preprint arXiv:1408.2270*, 2014.
- S. Wager, W. Fithian, S. I. Wang, and P. Liang. Altitude training: Strong bounds for single-layer dropout. In *Advances in Neural Information Processing Systems (NIPS)*, 2014.
- R. Frostig, S. I. Wang, P. Liang, and C. D. Manning. Simple MAP inference via low-rank relaxations. In *Advances in Neural Information Processing Systems (NIPS)*, 2014.
- S. I. Wang, R. Frostig, P. Liang, and C. D. Manning. Relaxations for inference in restricted Boltzmann machines. In *International Conference on Learning Representations Workshop (ICLR)*, 2014.
- S. Green, S. I. Wang, J. Chuang, J. Heer, , and C. D. Manning. Human effort and machine learnability in computer aided translation. In *Empirical Methods in Natural Language Processing (EMNLP)*, 2014.
- S. I. Wang and C. D. Manning. Fast dropout training. In *International Conference on Machine Learning (ICML)*, pages 118–126, 2013.
- S. I. Wang, M. Wang, S. Wager, P. Liang, and C. Manning. Feature noising for log-linear structured prediction. In *Empirical Methods in Natural Language Processing (EMNLP)*, 2013.
- S. Wager, S. I. Wang, and P. Liang. Dropout training as adaptive regularization. In *Advances in Neural Information Processing Systems (NIPS)*, 2013.
- S. Green, S. I. Wang, D. Cer, and C. D. Manning. Fast and adaptive online training of feature-rich translation models. In *Association for Computational Linguistics (ACL)*, 2013a.
- S. Green, D. Cer, K. Reschke, R. Voigt, J. Bauer, S. I. Wang, N. Silveira, J. Neidert, and C. D. Manning. Feature-rich phrase-based translation: Stanford University’s submission to the WMT 2013 translation task. In *ACL 2013 Eighth Workshop on Statistical Machine Translation*, 2013b.
- S. I. Wang and C. Manning. Baselines and bigrams: Simple, good sentiment and text classification. In *Association for Computational Linguistics (ACL)*, 2012.
- G. E. Hinton, A. Krizhevsky, and S. I. Wang. Object recognition using capsules. In *International Conference on Artificial Neural Networks (ICANN)*, 2011.

## Reviewing Services

Empirical Methods in Natural Language Processing (EMNLP), Program Committee (Semantics Track)  
Neural Information Processing Systems (NIPS)  
Journal of Machine Learning Research (JMLR)  
International Conference on Machine Learning (ICML)  
Transactions on Pattern Analysis and Machine Intelligence (TPAMI)  
Transactions on Neural Networks and Learning System  
Artificial Intelligence, Neural Networks, PLOS ONE

## Invited Talks

### **Interactive language learning**

UC Berkeley NLP group, 2016

OpenAI, 2016

### **Feature noising as regularization**

Google Brain Team, Google, 2014

Nuance Research Lab, 2013

### **Fast and Adaptive Online Training of Feature-Rich Translation Models**

Machine Translation Team, Google, 2013

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