

- Appointments* **University of Pennsylvania** August 2016 - present
 Postdoctoral Fellow
 The Warren Center for Network and Data Sciences
 Supervisors: Michael Kearns, Aaron Roth.
- Intern, Microsoft Research** Summer 2015
 Host: Brendan Lucier, New England (Cambridge MA).
 Topics: data marketplaces; signalling in games.
- Intern, Google Research** Summer 2013
 Host: Aranyak Mehta, Mountain View CA.
 Topics: approximation algorithms, auction design, online matching.
- Intern, Google Research** Summer 2012
 Host: Aranyak Mehta, Mountain View CA.
 Topics: crowdsourcing and maximum-likelihood; online matching; auction theory.
- Research Assistant, Duke University** Summer 2011
 Advisor: Vincent Conitzer
 Topic: false-name manipulations in voting settings.
- PRUV Fellow, Duke University** Summer 2010 - Summer 2011
 Advisor: Elizabeth Bouzarth
 Topic: modeling the foot in motion. A model and simulation of the dynamics of impact, stance, and takeoff in barefoot running. (Senior thesis.)
- Working Papers*
- A Smoothed Analysis of the Greedy Algorithm for the Linear Contextual Bandits Problem** (2017).
 Sampath Kannan, Jamie Morgenstern, Aaron Roth, Bo Waggoner, and Z. Steven Wu.
- Strategic Classification from Revealed Preferences** (2017).
 Jinshuo Dong, Aaron Roth, Zachary Schutzman, Bo Waggoner, and Z. Steven Wu.
- Active Information Acquisition for Linear Optimization** (2017).
 Shuran Zheng, Bo Waggoner, Yang Liu, and Yiling Chen.
- Multi-Observation Regression** (2017).
 Rafael Frongillo, Nishant Mehta, Tom Morgan, and Bo Waggoner.
- Publications** **An Axiomatic Study of Scoring Rule Markets.**
 Rafael Frongillo and Bo Waggoner.
Proceedings of the Ninth Innovations in Theoretical Computer Science Conference (ITCS 2018).

Accuracy First: Selecting a Differential Privacy Level for Accuracy-Constrained ERM.

Katrina Ligett, Seth Neel, Aaron Roth, Bo Waggoner, and Z. Steven Wu.

Proceedings of the Thirty-First Annual Conference on Neural Information Processing Systems (NIPS 2017).

Multi-Observation Elicitation.

Sebastian Casalaina-Martin, Tom Morgan, Rafael Frongillo, and Bo Waggoner.

Proceedings of the Thirtieth Annual Conference on Learning Theory (COLT 2017).

The Complexity of Stable Matchings under Substitutable Preferences.

Yuan Deng, Debmalya Panigrahi, and Bo Waggoner.

Proceedings of the Thirty-First AAAI Conference on Artificial Intelligence (AAAI 2017).

Informational Substitutes.

Yiling Chen and Bo Waggoner.

Proceedings of the Fifty-Sixth Annual IEEE Symposium on Foundations of Computer Science (FOCS 2016).

Descending Price Optimally Coordinates Search.

Robert Kleinberg, E. Glen Weyl, and Bo Waggoner.

Proceedings of the Seventeenth ACM Conference on Economics and Computation (EC 2015).

A Market Framework for Eliciting Private Data.

Bo Waggoner, Rafael Frongillo, and Jacob Abernethy.

Proceedings of the Twenty-Ninth Annual Conference on Neural Information Processing Systems (NIPS 2015).

Low-Cost Learning via Active Data Procurement.

Jacob Abernethy, Yiling Chen, Chien-Ju Ho, and Bo Waggoner.

Proceedings of the Sixteenth ACM Conference on Economics and Computation (EC 2015).

Fair Information Sharing for Treasure Hunting.

Yiling Chen, Kobbi Nissim, and Bo Waggoner.

Proceedings of the Twenty-Ninth AAAI Conference on Artificial Intelligence (AAAI 2015).

ℓ_p Testing and Learning of Discrete Distributions.

Bo Waggoner.

Proceedings of the Sixth Conference on Innovations in Theoretical Computer Science (ITCS 2015).

Online Stochastic Matching with Unequal Probabilities.

Aranyak Mehta, Bo Waggoner, and Morteza Zadimoghaddam.

Proceedings of the Twenty-Sixth Annual ACM-SIAM Symposium on Discrete Algorithms (SODA 2015).

Output Agreement Mechanisms and Common Knowledge.

Bo Waggoner and Yiling Chen.

Proceedings of the Second AAI Conference on Human Computation and Crowdsourcing (HCOMP 2014).

Designing Markets for Daily Deals.

Yang Cai, Mohammad Mahdian, Aranyak Mehta, and Bo Waggoner.

Proceedings of the Ninth Conference on Web and Internet Economics (WINE 2013).

Evaluating Resistance to False-Name Manipulation in Elections.

Bo Waggoner, Lirong Xia, and Vincent Conitzer.

Proceedings of the Twenty-Sixth AAI Conference on Artificial Intelligence (AAAI 2012).

** In most venues listed, author order is generally alphabetical by convention of the field. Conference proceedings listed above are archival for publication purposes.*

<i>Invited Talks</i>	TCS+ Series	November 9, 2016
	Online: https://sites.google.com/site/plustcs/	
	Title: <i>Informational Substitutes</i>	
	University of Colorado, Boulder	September 27, 2016
	Machine Learning and Statistics Seminar	
	Title: <i>What Dice Are These?</i>	
	University of Pennsylvania	March 16, 2016
	Theory Group	
	Title: <i>Some Approaches for Information Acquisition and Aggregation</i>	
	Microsoft Research NYC	October 14, 2015
	Title: <i>Low-Cost Learning via Active Data Procurement</i>	
	Duke University	September 9, 2015
	CSEcon Group	
	Title: <i>Low-Cost Learning via Active Data Procurement</i>	
<i>Teaching</i>	Penn NETS 412: Algorithmic Game Theory	Spring 2018
	Position: Primary instructor. (Coming next spring.)	
	Harvard CS 236r: Prediction, Learning, and Games	Spring 2016
	Position: Teaching Fellow. Professor: Yiling Chen.	

Harvard CS 284r: Incentives and Information in Networks	Fall 2013
Position: Teaching Fellow.	
Professor: Yaron Singer.	
Harvard CS 121: Introduction to Theory of Computation	Fall 2012
Position: Teaching Fellow.	
Professor: Salil Vadhan.	
Guest Teaching or Lectures	
UPenn NETS 412: Algorithmic Game Theory (one class)	Spring 2017
Prof. Yiling Chen	
Harvard CS 236r: Prediction, Learning, and Games (two classes)	Spring 2016
Prof. Yiling Chen	
Harvard Applied Math 121: Intro to Optimization (two classes)	Fall 2014
Prof.s Yiling Chen and David Parkes	
Harvard CS 284r: Incentives and Info in Networks (one class)	Fall 2013
Prof. Yaron Singer	
Harvard CS 121: Intro to Theory of Computation (one class)	Fall 2012
Prof. Salil Vadhan	

Service

Co-Organizer, Workshop on Forecasting

at the 2017 ACM Conference on Economics and Computation (EC)
with Rafael Frongillo and David Rothschild.
<http://www.bowaggoner.com/ec-forecasting/>

Co-Organizer, Tutorial on Elicitation

at the 2016 ACM Conference on Economics and Computation (EC)
with Rafael Frongillo.
<https://sites.google.com/site/informationelicitation/>

Technical Blog “The Tiger’s Stripes”

<https://www.bowaggoner.com/blog/>
Dedicated to accessible tutorials on research or fundamentals in math, computer science, and game theory.

Program Committee

International Joint Conference on Artificial Intelligence (IJCAI), International Conference on Autonomous Agents and Multiagent Systems (AAMAS), AAAI Conference on Artificial Intelligence (AAAI), International Conference on Machine Learning (ICML), Advances in Neural Information Processing Systems (NIPS), International Conference on World Wide Web (WWW).

Referee/Reviewer

ACM-SIAM Symposium on Discrete Algorithms (SODA); ACM Conference on Economics and Computation (EC); ACM WSDM Conference; AAAI Conference on Artificial Intelligence (AAAI); International Symposium on Algorithmic Game Theory (SAGT); International Conference on Machine Learning (ICML); ACM Symposium on Theory of Computing (STOC);

Conference on Learning Theory (COLT); International Joint Conference on Artificial Intelligence (IJCAI); International World Wide Web Conference (WWW); IEEE Symposium on Foundations of Computer Science (FOCS); Advances in Neural Information Processing Systems (NIPS); Foundations and Trends in Theoretical Computer Science (Fn-TCS).

Conference Student Volunteer/Organizer

Conference on Web and Internet Economics (WINE) 2013, in Cambridge MA.

Research Group Organizer / “Czar”

Harvard EconCS group, 2012-13, and AI Research Group, 2013-14.

Penn theoretical computer science, learning, and algorithmic game theory seminar, 2017-18.

Online Computer Science Community

Regular contributor to question-and-answer sites {cs,cstheory,math}.stackexchange.com, mathoverflow.net.

Miscellanea

Doctoral Dissertation Award - Honorable Mention

Association for Computing Machinery’s Special Interest Group on Electronic Commerce (ACM-SIGecom).

Siebel Scholarship

Funded final year of doctoral studies via the Siebel Scholars Foundation.

Undergraduate Honors Thesis

Modeling the Foot in Motion.

Advisor: Elizabeth Bouzarth. A computational model/simulation of the motion of the foot and ankle in barefoot running, analyzing the impact of stride mechanics on internal forces and mechanics.

ACM International Collegiate Programming Competition (ICPC)

World Finalist, 2011. Member of 80th-place team from Duke University.

Columnist, *The Chronicle*

Contributor for Duke’s daily independent newspaper, 2008.

Competitive Distance Running

Qualifier, 2016 USA Olympic Trials, marathon, via 1:04:50 half-marathon performance.

Currently represents the Boston Athletic Association (BAA) on roads, track, cross-country.

Personal records: 4:06.8 mile, 14:06 5k, 29:14 10k.

Division I Athletics

Member and captain of three varsity athletic teams at Duke:

Cross-Country 4-time All-ACC, placing 5th as a senior;
team 21st place at the 2010 NCAA Championships.

Indoor Track All-ACC; Duke school records in 3000m and 5000m.

Outdoor Track NCAA Finalist and 21st place at the 2011 NCAA Championships
in the 10000m.

2010 COSIDA Academic All-America in Cross-Country/Track and Field.

2010 ACC Male Scholar-Athlete of the Year in Indoor Track and in Cross-Country.