

## Ming Yin

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CONTACT INFORMATION	Lawson Computer Science Building 2142B 305 N. University Street West Lafayette, IN 47907, USA	<i>Phone:</i> (+1)765-496-9381 <i>Email:</i> <a href="mailto:mingyin@purdue.edu">mingyin@purdue.edu</a> <a href="http://www.mingyin.org">http://www.mingyin.org</a>
RESEARCH INTERESTS	Social computing, human computation and crowdsourcing, computational social science, human-computer interaction, applied artificial intelligence and machine learning, behavior economics.	
EDUCATION	<b>Harvard University</b> , Cambridge, MA, USA <i>Ph.D.</i> in Computer Science Thesis Title: Peeking into the On-Demand Economy: Crowd Behavior and Incentive Design (Nominated for ACM Doctoral Dissertation Award)	Sep 2011 – Jun 2017
	<b>City University of Hong Kong</b> , Hong Kong, China <i>Undergraduate Exchange Student</i> in Computer Science	Aug 2009 – Dec 2009
	<b>Tsinghua University</b> , Beijing, China <i>Bachelor of Engineering</i> in Computer Software	Aug 2007 – Jul 2011
APPOINTMENTS	<b>Assistant Professor</b> <i>Purdue University</i> , Department of Computer Science, West Lafayette, IN	Jul 2018 – present
	<b>Postdoctoral Researcher</b> <i>Microsoft Research</i> , Computational Social Science Group, New York, NY	Aug 2017 – Jun 2018
	<b>Research Intern</b> <i>Microsoft Research</i> , Social Media Collective, Cambridge, MA	Aug 2016 – Oct 2016
	<b>Research Intern</b> <i>Microsoft Research</i> , Computational Social Science Group, New York, NY	Jun 2015 – Aug 2015
	<b>Research Intern</b> <i>PARC</i> , Collective Intelligence and Service Computing Group, Webster, NY	Jun 2014 – Aug 2014
	<b>Research Intern</b> <i>Xerox Research</i> , Social and Web Technology Group, Webster, NY	Jun 2013 – Aug 2013
	<b>Research Intern</b> <i>Baidu Inc.</i> , Ads Research Team, Beijing, China	Mar 2011 – Jul 2011
HONORS AND AWARDS	ACM Doctoral Dissertation Award Nomination Siebel Scholar, the Siebel Foundation Chinese Government Award for Outstanding Students Abroad Best Paper Honorable Mention, CHI NSF Student Travel Award, AAMAS Certificate of Distinction in Teaching, Harvard University Graduate Student Fellowship, Harvard University Beijing Outstanding Graduate, Beijing Municipal Commission of Education Tsinghua University Outstanding Graduate, Tsinghua University	2018 Class of 2017 2016 2016 2015 2013 2011 2011 2011

Tsinghua's Friend – Widjaja Scholarship, Tsinghua University	2009
National Southwest Associated University Scholarship, Tsinghua University	2008

PUBLICATIONS      In most cases, my collaborators and I choose to have students as first authors and then determine the authorship alphabetically.

### Refereed Conference Publications

Wei Tang, Chien-Ju Ho, Ming Yin. Leveraging Peer Communication to Enhance Crowdsourcing. In *Proc. of the Web Conference (WWW)*, San Francisco, CA, May 2019.

Ming Yin, Jennifer Wortman Vaughan, Hanna Wallach. Understanding the Effect of Accuracy on Trust in Machine Learning Models. In *Proc. of the 37th ACM Conference on Human Factors in Computing Systems (CHI)*, Glasgow, UK, May 2019.

Ming Yin, Siddharth Suri, Mary Gray. Running Out of Time: The Impact and Value of Flexibility in On-Demand Crowdwork. In *Proc. of the 36th ACM Conference on Human Factors in Computing Systems (CHI)*, Montreal, Canada, April 2018.

Ming Yin, Yiling Chen. Predicting Crowd Work Quality under Monetary Interventions. In *Proc. of the 4th AAAI Conference on Human Computation and Crowdsourcing (HCOMP)*, Austin, TX, October 30 – November 3, 2016.

Edith Law, Ming Yin, Joslin Goh, Kevin Chen, Michael Terry, Krzysztof Z. Gajos. Curiosity Killed the Cat, but Makes Crowdwork Better. In *Proc. of the 34th ACM Conference on Human Factors in Computing Systems (CHI)*, San Jose, CA, May 2016. **(Best Paper Honorable Mention)**

Ming Yin, Mary Gray, Siddharth Suri, Jennifer Wortman Vaughan. The Communication Network Within the Crowd. In *Proc. of the 25th International World Wide Web Conference (WWW)*, Montreal, Canada, April 2016.

Ming Yin, Yiling Chen. Bonus or Not? Learn to Reward in Crowdsourcing. In *Proc. of the 24th International Joint Conference on Artificial Intelligence (IJCAI)*, Buenos Aires, Argentina, July 2015.

Ming Yin, Yu-An Sun. Human Behavior Models for Virtual Agents in Repeated Decision Making under Uncertainty. In *Proc. of the 14th International Conference on Autonomous Agents & Multiagent Systems (AAMAS)*, Istanbul, Turkey, May 2015.

Ming Yin, Yiling Chen, Yu-An Sun. Monetary Interventions in Crowdsourcing Task Switching. In *Proc. of the 2nd AAAI Conference on Human Computation and Crowdsourcing (HCOMP)*, Pittsburgh, PA, November 2014.

Ming Yin, Yiling Chen, Yu-An Sun. The Effects of Performance-Contingent Financial Incentives in Online Labor Markets. In *Proc. of the 27th Conference on Artificial Intelligence (AAAI)*, Bellevue, WA, July 2013.

Yang Sun, Yunhong Zhou, Ming Yin, Xiaotie Deng. On the Convergence and Robustness of Reserve Pricing in Keyword Auctions. In *Proc. of the 14th International Conference on Electronic Commerce (ICEC)*, Singapore, August 2012.

Ming Yin, Peibei Shi, Wangshu Zhang, Rui Jiang. Optimizing Subnetwork Markers for the Classification of Breast Cancer Metastases: A Simulated Annealing Strategy.

In *Proc. of 2011 International Conference on Medical Information and Bioengineering (ICMIB)*, Chengdu, China, January 2011.

Xiaotie Deng, Yang Sun, Ming Yin, Yunhong Zhou. Mechanism Design for Multi-slot Ads Auction in Sponsored Search Markets. In *Proc. of the 4th International Frontiers in Algorithmics Workshop (FAW)*, Wuhan, China, August 2010.

### Workshop Papers, Posters and Extended Abstracts

Ming Yin, Emma Heikensten, Yiling Chen. Is Time Our Friend or Enemy? The Impact of Timing on Online Experimentation. In *the 2018 Conference on Digital Experimentation (CODE)*, Cambridge, MA, October 2018.

Ming Yin, Jennifer Wortman Vaughan, Hanna Wallach. Does Stated Accuracy Affect Trust in Machine Learning Algorithms? In *the 3rd ICML Workshop on Human Interpretability in Machine Learning (WHI)*, Stockholm, Sweden, July 2018.

Ming Yin, Siddharth Suri, Mary L. Gray. The Impact and Value of Flexibility in On-Demand Work. In *the 2017 Conference on Digital Experimentation (CODE)*, Cambridge, MA, October 2017.

Edith Law, Ming Yin, Joslin Goh, Kevin Chen, Michael Terry, Krzysztof Z. Gajos. Curiosity Killed the Cat, but Makes Crowdsourcing Better. In *the 2016 Conference on Digital Experimentation (CODE)*, Cambridge, MA, October 2016.

Mary Gray, Siddharth Suri, Ming Yin, Jennifer Wortman Vaughan, Syed Shoaib Ali, Deepti Kulkarni. The Collaboration and Communication Networks within the Crowd. In *the 2016 International Conference on Computational Social Science (IC2S2)*, Evanston, IL, June 2016.

Ming Yin, Yiling Chen, Yu-An Sun. Task Sequence Design: Evidence on Price and Difficulty. In *the 1st AAAI Conference on Human Computation and Crowdsourcing (HCOMP)*, Palm Springs, CA, November 2013. (Work in progress track)

### Other Publications

Ming Yin. Peeking into the On-Demand Economy: Crowd Behavior and Incentive Design. *Ph.D. Dissertation*, School of Engineering and Applied Sciences, Harvard University, June 2017.

PATENTS      Method and Apparatus for Recommending a Selection between a Reseller and a Multi-sided Platform, with Yu-An Sun, US Patent Application Number 14/161393.

TEACHING      **Instructor**, Purdue University  
                    • CS 573 (Data Mining)      Spring 2019  
                    • CS 590 – CSC (Crowdsourcing and Social Computing)      Fall 2018

**Guest Lecturer**, Harvard University  
                    • CS 280r (Advanced Topics in Artificial Intelligence)      Spring 2015, Spring 2017

**Teaching Fellow**, Harvard University  
                    • CS 182 (Intelligent Machines: Reasoning, Actions and Plans)      Fall 2013, Fall 2014  
                    • AM 121 (Introduction to Optimization: Models and Methods)      Spring 2013

SELECTED INVITED TALKS	<b>Peeking into the On-Demand Economy.</b>	
	<i>Yale Marketing Seminar, Yale University.</i> New Haven, CT.	Nov 2018
	<i>ACM New York City Meetup.</i> New York, NY.	Jun 2018
	<i>Data Science Seminar, University of Massachusetts.</i> Amherst, MA.	Mar 2017
	<i>Computer Science Department, Boston College.</i> Chestnut Hill, MA.	Mar 2017
	<i>Simon Fraser University.</i> Burnaby, BC, Canada.	Mar 2017
	<i>Information Science Colloquium, Cornell University.</i> Ithaca, NY.	Feb 2017
	<i>Microsoft Research.</i> New York, NY.	Feb 2017
	<i>Department of Computer Science, Purdue University.</i> West Lafayette, IN.	Feb 2017
	<i>University of Waterloo.</i> Waterloo, ON, Canada.	Feb 2017
	<b>Designing Incentives for Humans in the Loop.</b>	
	<i>Image and Video Computing Seminar, Boston University.</i> Boston, MA.	Nov 2016
MEDIA COVERAGE	The shape of work to come, <i>Nature News Feature.</i>	Oct 2017
LEADERSHIP AND SERVICE	<b>Program Committees</b>	
	Conference on Artificial Intelligence (AAAI), 2019	
	International Joint Conference on Artificial Intelligence (IJCAI), 2019	
	The Web Conference (WWW), 2018 – 2019	
	ACM Conference on Economics and Computation (EC), 2019	
	IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM), 2019	
	The Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD), 2017 – 2018	
	The Workshop on Human Computation for Image and Video Analysis (GroupSight@HCOMP), 2017	
	<b>Conference/Workshop Organizing Committees</b>	
	The 7th AAAI Conference on Human Computation and Crowdsourcing, HCOMP 2019, Doctoral Symposium Co-chair	
	The 6th AAAI Conference on Human Computation and Crowdsourcing, HCOMP 2018, CrowdCamp Co-chair	
	The 5th AAAI Conference on Human Computation and Crowdsourcing, HCOMP 2017, Website Co-chair	
	Designing for Curiosity: an Interdisciplinary Workshop, CHI 2017, Co-organizer	
	<b>Conference Refereeing</b>	
	ACM Conference on Human Factors in Computing Systems (CHI), 2014, 2017 – 2019	
	ACM Conference on Computer-Supported Cooperative Work (CSCW), 2015, 2018	
	ACM Conference on Economics and Computation (EC), 2016	
	The Conference on Web and Internet Economics (WINE), 2012	
	International World Wide Web Conference (WWW), 2011	
	The International Colloquium on Automata, Languages and Programming (ICALP), 2010	
	<b>Journal Refereeing</b>	
	Journal of Artificial Intelligence Research (JAIR), Science Advances, ACM Transactions on Social Computing (TSC), ACM Transactions on Intelligent Systems and Technology (TIST)	

**Student Organizer**

Harvard EconCS Seminar

2013 – 2014

**Graduate Student Mentor**

SEAS Connect Program, Harvard University

2013 – 2014

GSAS Host Student Program, Harvard University

2012 – 2013

**President**

Student Association of Science and Technology (SAST), School of Software, Tsinghua University

2010 – 2011