

Ming Yin

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> mingyin@purdue.edu http://www.mingyin.org
RESEARCH INTERESTS	Social computing, human computation and crowdsourcing, human-computer interaction, computational social science, applied artificial intelligence and machine learning, behavior economics.	
EDUCATION	Harvard University , 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) City University of Hong Kong , Hong Kong, China <i>Undergraduate Exchange Student</i> in Computer Science Tsinghua University , Beijing, China <i>Bachelor of Engineering</i> in Computer Software	Sep 2011 – Jun 2017 Aug 2009 – Dec 2009 Aug 2007 – Jul 2011
APPOINTMENTS	Assistant Professor <i>Purdue University</i> , Department of Computer Science, West Lafayette, IN Postdoctoral Researcher <i>Microsoft Research</i> , Computational Social Science Group, New York, NY Research Intern <i>Microsoft Research</i> , Social Media Collective, Cambridge, MA Research Intern <i>Microsoft Research</i> , Computational Social Science Group, New York, NY Research Intern <i>PARC</i> , Collective Intelligence and Service Computing Group, Webster, NY Research Intern <i>Xerox Research</i> , Social and Web Technology Group, Webster, NY Research Intern <i>Baidu Inc.</i> , Ads Research Team, Beijing, China	Jul 2018 – present Aug 2017 – Jun 2018 Aug 2016 – Oct 2016 Jun 2015 – Aug 2015 Jun 2014 – Aug 2014 Jun 2013 – Aug 2013 Mar 2011 – Jul 2011
HONORS AND AWARDS	Best Paper Honorable Mention, CHI 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	2019 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

Keman Huang, Jinhui Yao, Ming Yin. Understanding the Skill Provision in Gig Economy from a Network Perspective: A Case Study of Fiverr. In *Proc. of the ACM on Human-Computer Interaction: Computer-Supported Cooperative Work and Social Computing (CSCW)*, Austin, TX, November 2019.

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. (**Best Paper Honorable Mention**)

Ming Yin, Siddharth Suri, Mary Gray. Running Out of Time: The Impact and Value of Flexibility in On-Demand Crowdsourcing. 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 Crowdsourcing 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, Duncan Watts. Human Complex Problem Solving: The Case of Constraint Satisfaction Optimization Problems. In *the 5th International Conference on Computational Social Science (IC2S2)*, Amsterdam, Netherlands, July 2019.

Abdullah Almaatouq, Ming Yin, Duncan Watts. Optimal Team Construction for a Complex Task. In *the 5th International Conference on Computational Social Science (IC2S2)*, Amsterdam, Netherlands, July 2019.

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 2nd 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 <ul style="list-style-type: none"> • CS 573 (Data Mining) Spring 2019, Fall 2019 • CS 590 – CSC (Crowdsourcing and Social Computing) Fall 2018 Guest Lecturer , Harvard University <ul style="list-style-type: none"> • CS 280r (Advanced Topics in Artificial Intelligence) Spring 2015, Spring 2017 Teaching Fellow , Harvard University <ul style="list-style-type: none"> • 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	Peeking into the On-Demand Economy. <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 Designing Incentives for Humans in the Loop. <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	Program Committees Associate chair; ACM Conference on Human Factors in Computing Systems (CHI), 2020 PC member; Conference on Artificial Intelligence (AAAI), 2019 PC member; International Joint Conference on Artificial Intelligence (IJCAI), 2019 PC member; The Web Conference (WWW), 2018, 2019 PC member; ACM Conference on Economics and Computation (EC), 2019 PC member; IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM), 2019 PC member; The Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD), 2017, 2018 PC member; The 3rd IEEE Workshop on Human-in-the-loop Methods and Human Machine Collaboration in Big Data (HMDData), 2019 PC member; The 1st Workshop on Behavioral Economics and Computation, 2019 PC member; The 2nd Workshop on Human Computation for Image and Video Analysis (GroupSight@HCOMP), 2017 Conference/Workshop Organizing Committees Doctoral symposium co-chair; The 7th AAAI Conference on Human Computation and Crowdsourcing, HCOMP 2019 CrowdCamp co-chair; The 6th AAAI Conference on Human Computation and Crowdsourcing, HCOMP 2018	

Website co-chair; The 5th AAAI Conference on Human Computation and Crowdsourcing, HCOMP 2017

Co-organizer; Designing for Curiosity: an Interdisciplinary Workshop, CHI 2017

Conference Refereeing

ACM Conference on Human Factors in Computing Systems (CHI), 2014, 2017, 2018, 2019

ACM Conference on Computer-Supported Cooperative Work (CSCW), 2015, 2018, 2019

ACM Symposium on User Interface Software and Technology (UIST), 2019

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

Journal Refereeing

Journal of Artificial Intelligence Research (JAIR), Science Advances, ACM Transactions on Social Computing (TSC), ACM Transactions on Intelligent Systems and Technology (TIST), IEEE Transactions on Knowledge and Data Engineering (TKDE)

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