Ming Yin

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Contact Information	Lawson Computer Science Building 2142B 305 N. University Street	<i>Phone:</i> (+1)765-496-9381 <i>Email:</i> mingyin@purdue.edu	
INFORMATION	West Lafayette, IN 47907, USA	http://www.mingyin.org	
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RESEARCH	Social computing, human computation and crowdsourcing, human-computer interaction, compu-		
Interests	tational social science, applied artificial intelligence and machine learning, behavior economics.		
EDUCATION	Harvard University, Cambridge, MA, USA	Sep 2011 – Jun 2017	
EBOOMITON	Ph.D. in Computer Science	Sep 2011 - 0 th 2017	
Thesis Title: Peeking into the On-Demand Economy: Crowd Behavior and (Nominated for ACM Doctoral Dissertation Award)		wd Behavior and Incentive Design	
	City University of Hong Kong, Hong Kong, China	Aug 2009 - Dec 2009	
	Undergraduate Exchange Student in Computer Science		
	Tsinghua University, Beijing, China	Aug 2007 – Jul 2011	
	Bachelor of Engineering in Computer Software		
		T 1 0040	
APPOINTMENTS	Assistant Professor Purdue University, Department of Computer Science, West	Jul 2018 – present Lafavette IN	
	Tanada anticology, Department of Computer Science, West		
	Postdoctoral Researcher	Aug 2017 – Jun 2018	
	Microsoft Research, Computational Social Science Group, N	New York, INY	
	Research Intern	Aug 2016 – Oct 2016	
	Microsoft Research, Social Media Collective, Cambridge, M.	A	
	Research Intern	Jun 2015 – Aug 2015	
	Microsoft Research, Computational Social Science Group, N	Jew York, NY	
	Research Intern	Jun 2014 – Aug 2014	
	PARC, Collective Intelligence and Service Computing Grou	9	
	Research Intern	Jun 2013 – Aug 2013	
	Xerox Research, Social and Web Technology Group, Webste	9	
	Research Intern Baidu Inc., Ads Research Team, Beijing, China	Mar 2011 – Jul 2011	
	David The., I'd Iteseater Team, Beijing, Cimia		
Honors and	Purdue Vertically Integrated Projects (VIP) Program Facul	ty Mentor Award 2020	
Awards	Best Paper Honorable Mention, CHI	2019	
	ACM Doctoral Dissertation Award Nomination Siebel Scholar, the Siebel Foundation	2018 Class of 2017	
	Chinese Government Award for Outstanding Students Abro		
	Best Paper Honorable Mention, CHI	2016	
	NSF Student Travel Award, AAMAS	2015	
	Certificate of Distinction in Teaching, Harvard University	2013	
	Graduate Student Fellowship, Harvard University	2011	
	Beijing Outstanding Graduate, Beijing Municipal Commissi Tsinghua University Outstanding Graduate, Tsinghua Univ		
	Tsinghua's Friend – Widjaja Scholarship, Tsinghua Univers	· ·	
	National Southwest Associated University Scholarship, Tsin	·	

Publications

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

Refereed Conference and Journal Publications

Amy Rechkemmer, Ming Yin. Motivating Novice Crowd Workers Through Goal Setting: An Investigation into the Effects on Complex Crowdsourcing Task Training. In *Proc. of the 8th AAAI Conference on Human Computation and Crowdsourcing (HCOMP)*, Hilversum, Netherlands, October 2020.

Xiaoni Duan, Chien-Ju Ho, Ming Yin. Does Exposure to Diverse Perspectives Mitigate Biases in Crowdwork? An Explorative Study. In *Proc. of the 8th AAAI Conference on Human Computation and Crowdsourcing (HCOMP)*, Hilversum, Netherlands, October 2020.

Xiao Hu, Haobo Wang, Anirudh Vegesana, Somesh Dube, Kaiwen Yu, Gore Kao, Shuo-Han Chen, Yung-Hsiang Lu, George Thiruvathukal, Ming Yin. Crowdsourcing Detection of Sampling Biases in Image Datasets. In *Proc. of the Web Conference (WWW)*, Taipei, April 2020.

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 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

Xiao Hu, Haobo Wang, Somesh Dube, Anirudh Vegesana, Kaiwen Yu, Yung-Hsiang Lu, Ming Yin. Discovering Biases in Image Datasets with the Crowd. In the 7th AAAI Conference on Human Computation and Crowdsourcing (HCOMP), Skamania Lodge, WA, October 2019. (Work in progress track)

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 Crowdwork 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

• CS 573 (Data Mining)	Spring 2019, Fall 2019, Fall 2020
• CS 590 – HCC (Human-Centered Computing)	Spring 2020
• 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

$\ \, \textbf{Understanding Human Trust in Machine Learning through Behavioral Experiments.} \\$

Mathematical and Computational Psychology Colloquium, Purdue Uni	versity. West Lafayette,
IN.	Jan 2020
Computer Science Colloquium, Northwestern University, Evanston, IL.	Oct. 2019

Towards Effective Human-AI Partnership.

Statistics Colloquium, Purdue University. West Lafayette, IN. Dec 2019

Peeking into the On-Demand Economy.

Yale Marketing Seminar, Yale University. New Haven, CT.	Nov 2018
ACM New York City Meetup. New York, NY.	Jun 2018
Data Science Seminar, University of Massachusetts. Amherst, MA.	Mar 2017
Computer Science Department, Boston College. Chestnut Hill, MA.	Mar 2017
Simon Fraser University. Burnaby, BC, Canada.	Mar 2017
Information Science Colloquium, Cornell University. Ithaca, NY.	Feb 2017
Microsoft Research. New York, NY.	Feb 2017
Department of Computer Science, Purdue University. West Lafayette, IN.	Feb 2017
University of Waterloo, Waterloo, ON, Canada.	Feb 2017

Designing Incentives for Humans in the Loop.

Image and Video Computing Seminar, Boston University. Boston, MA. Nov 2016

Media Coverage The shape of work to come, Nature News Feature.

Oct 2017

LEADERSHIP AND Program Committees

SERVICE Associate chair; ACM Conference on Human Factors in Computing Systems (CHI), 2020, 2021

Associate chair; AAAI Conference on Human Computation and Crowdsourcing (HCOMP), 2020

PC member; Conference on Artificial Intelligence (AAAI), 2019, 2020, 2021

PC member; The Web Conference (WWW), 2018, 2019, 2021

PC member; International Joint Conference on Artificial Intelligence (IJCAI), 2019, 2020, 2021

PC member; ACM Conference on Economics and Computation (EC), 2019, 2020

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 Workshop on Behavioral Economics and Computation, 2019, 2020

PC member; The 3rd IEEE Workshop on Human-in-the-loop Methods and Human Machine Collaboration in Big Data (HMData), 2019

PC member; The 2nd Workshop on Human Computation for Image and Video Analysis (Group-Sight@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, 2020

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

Artificial Intelligence Journal (AIJ), 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