Ming Yin

CONTACT INFORMATION	Microsoft Research NYC 641 Avenue of the Americas, 7th Floor New York, NY 10011, USA	*Phone:* (+1) 617-216-8924 *Email:* Ming.Yin@microsoft.com http://www.mingyin.org

RESEARCH INTERESTS

Social computing, human computation and crowdsourcing, computational social science, applied artificial intelligence and machine learning, human-computer interaction, behavior economics.

EDUCATION

Harvard University, Cambridge, MA, USA Sep 2011 – Jun 2017
Ph.D. in Computer Science
Master of Science in Computer Science
Advisor: Yiling Chen

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

APPOINTMENTS

Postdoctoral Researcher Aug 2017 – Jun 2018
Microsoft Research, Computational Social Science Group, New York, NY

Research Intern Aug 2016 – Oct 2016
Microsoft Research, Social Media Collective, Cambridge, MA
Mentor: Mary L. Gray

Research Intern Jun 2015 – Aug 2015
Microsoft Research, Computational Social Science Group, New York, NY
Mentor: Siddharth Suri and Jennifer Wortman Vaughan

Research Intern Jun 2014 – Aug 2014
PARC, Collective Intelligence and Service Computing Group, Webster, NY
Mentor: Yu-An Sun

Research Intern Jun 2013 – Aug 2013
Xerox Research, Social and Web Technology Group, Webster, NY
Mentor: Yu-An Sun

Research Intern Mar 2011 – Jul 2011
Baidu Inc., Ads Research Team, Beijing, China
Mentor: Yunhong Zhou

HONORS AND AWARDS

Siebel Scholar, the Siebel Foundation	Class of 2017
Chinese Government Award for Outstanding Students Abroad	2016
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 Commission of Education	2011
Tsinghua University Outstanding Graduate, Tsinghua University	2011

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

PUBLICATIONS **Conference Papers**

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.

Posters and Extended Abstracts

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 2016 International Conferece 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   **Guest Lecturer**, Harvard University   Spring 2015, Spring 2017
- CS 280r (Advanced Topics in Artificial Intelligence)

Teaching Fellow, Harvard University   Fall 2013, Fall 2014
- CS182 (Intelligent Machines: Reasoning, Actions and Plans)

Teaching Fellow, Harvard University   Spring 2013
- AM121 (Introduction to Optimization: Models and Methods)

SELECTED
INVITED TALKS

Peeking into the On-Demand Economy.

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

LEADERSHIP AND
SERVICE

Program Committees

International World Wide Web Conference (WWW), 2018

The Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD), 2018, 2017

The Second Workshop on Human Computation for Image and Video Analysis (GroupSight@HCOMP), 2017

Conference/Workshop Organizing Committees
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

Conference Refereeing
ACM Conference on Human Factors in Computing Systems (CHI), 2018, 2017, 2014
ACM Conference on Economics and Computation (EC), 2016
ACM Conference on Computer-Supported Cooperative Work (CSCW), 2015
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 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