

## HCOMP Workshop on Mathematical Foundations of Human Computation

Schedule:

- 09:00 - 09:30 **Opening Talk**  
*Mathematical Foundations of Human Computation*  
Jenn Wortman Vaughan, Microsoft Research
- 09:30 - 10:15 **Invited Talk**  
*Programming with People*  
Emery Berger, University of Massachusetts Amherst
- 10:15 - 10:30 **Discussion**
- 10:30 - 11:00 **Coffee Break**
- 11:00 - 11:30 **Contributed Talks**  
*Crowdsourced Security Vulnerability Discovery: Modeling and Organizing Bug-Bounty Programs*  
Mingyi Zhao, Aron Laszka, Thomas Maillard, and Jens Grossklags  
*Informed Truthfulness for Multi-Task Peer Prediction*  
Victor Shnayder, Arpit Agarwal, Rafael Frongillo, and David C. Parkes  
*Classification with Strategic Data Sources*  
Yang Liu and Yiling Chen
- 11:30-12:15 **Invited Talk**  
*An automata-theoretic Model for Human Computation with Applications to Password Generation*  
Manuel Blum, Carnegie Mellon University
- 12:15 - 12:30 **Discussion**
- 12:30 - 02:00 **Lunch Break**
- 02:00 - 02:30 **Contributed Talks**  
*Deliberation for Social Choice*  
Brandon Fain, Ashish Goel, and Ramesh Manageria  
*Efficiency of Active Learning for the Allocation of Workers on Crowdsourcing Classification Tasks*  
Edoardo Manino, Long Tran-Thanh, and Nicholas R. Jennings  
*The Role of Information Theory and Queuing Theory in Human Computation Systems*  
Avhishek Chatterjee and Lav Varshney
- 02:30 - 03:15 **Invited Talk**  
*Meta-Unsupervised-Learning: A Model of Unsupervised Learning Applicable to Humans and Computers*  
Adam Tauman Kalai, Microsoft Research
- 03:15 - 03:30 **Discussion**
- 03:30 - 04:00 **Coffee Break**
- 04:00 - 04:45 **Invited Talk**  
*Microproductivity: Getting Big Things Done with Little Microtasks*  
Jaime Teevan, Microsoft Research
- 04:45 - 05:30 **Open Problem Session and Discussion**

This schedule is subject to change. Please check the website for the latest schedule.

<http://chienjuho.com/workshops/mathematical-foundations-of-human-computation>