

Meng-Han Wu

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Education

- PhD, Electrical & Computer Engineering (*in progress*)** Aug 2014 – Present
Purdue University
Concentration: human-computer interaction (HCI), human computation, crowdsourcing
- BS, Engineering Science and Ocean Engineering** Sep 2009 – Jun 2013
National Taiwan University, Taipei, Taiwan

Employment

- Teaching Assistant**, Purdue University Fall 2017, Spring 2018
- Graduate Research Assistant**, Purdue University Aug 2015 – Aug 2017
- Summer Internship**, CSBC Corporation, Taiwan July 2011 – Aug 2017

Research / Publications

Task design for crowdsourcing on Mechanical Turk

- Studied influence of task design quality on Amazon Mechanical Turk and identified critical variables affecting performance and throughput
- Designed studies and survey instruments used by 570 crowd workers
- Analyzed data and produced charts using R / RStudio, Python, and D3.js
- PUBLISHED
Meng-Han Wu, Alexander J. Quinn, 2017. Confusing the crowd: Task instruction quality on Amazon Mechanical Turk. In *Proceedings of the 6th AAAI Conference on Human-Computation and Crowdsourcing (HCOMP 2017)*.

Ability-based incentives for crowdsourcing on Mechanical Turk

- Tested a financial reward strategy that incents workers to choose tasks that fit their cognitive aptitudes
- Designed and executed online study with 1000 crowd workers
- Real-time results analysis and visualization integrated in study web application
- PENDING (awaiting resubmission)
Meng-Han Wu, Alexander J. Quinn, 2018. Curve payments: guiding crowd workers to the tasks they can do best." 9 pages. *To be submitted to HCOMP 2018*

Specification challenges of novice requesters on crowdsourcing platforms

- Investigating how novice requesters explain requirements and design tasks, and the challenges to helping them obtain high quality results with minimal effort in task design
- Performed a pilot study in the lab with 4 participants
- Currently designing a larger study to be performed in Spring 2018

Teaching

Advanced C Programming, Teaching Assistant

Fall 2017, Spring 2018

- Wrote and managed automated testing of programming assignments
- >300 students in Fall 2017; 184 students in Spring 2018
- Responsible for updating course web page and assignment descriptions
- Office hours helping undergraduate students with C programming

Technical skills

- **Languages:** Python, C/C++, JavaScript, R, Java, SQL, HTML/CSS
- **Frameworks:** ReactJS, Flask, D3.js, Mechanical Turk API, Tornado, jQuery
- **Statistics:** RStudio, SAS

Leadership experiences

- Organized a social event (with 100 attendants) for Taiwanese graduate students at Purdue University (summer 2015 – summer 2016)
- Organized lifeguard training course and successfully trained 38 licensed lifeguards
- Regularly advise lab members on statistical analysis for their projects