

Raymond Fok

Computer Science and Engineering
University of Michigan

<https://rayfok.github.io>
(917) 589-3888
rayfok@umich.edu

Research Interests

My research explores the intersection of HCI and AI through the design and development of hybrid intelligent systems for diverse applications.

Areas: Human-Computer Interaction, Artificial Intelligence, Crowdsourcing

Education

09/2016 – present **University of Michigan - Ann Arbor**
Ann Arbor, MI BSE Computer Science, Minor in Mathematics
GPA: 3.88 / 4.00

09/2015 – 05/2016 **New York University - Tandon School of Engineering**
New York, NY BS Computer Science and Mathematics (transferred after 1st year)
GPA: 4.00 / 4.00

Publications

Refereed Conference

- C.04 R. Fok, H. Kaur, S. Palani, M.E. Mott, W.S. Lasecki. Towards More Robust Speech Interactions for Deaf and Hard of Hearing Users. *ACM SIGACCESS Conference on Computers and Accessibility (ASSETS 2018)*. Galway, Ireland. pp 57–67.
- C.03 J.Y. Song, R. Fok, A. Lundgard, F. Yang, J. Kim, W.S. Lasecki. Two Tools are Better Than One: Tool Diversity as a Means of Improving Aggregate Crowd Performance. *ACM International Conference on Intelligent User Interfaces (IUI 2018)*. Tokyo, Japan. pp 559–570.
- C.02 S. Swaminathan, R. Fok, F. Chen, T.K. Huang, I. Lin, R. Jadvani, W.S. Lasecki, J.P. Bigham. WearMail: On-the-Go Access to Information in Your Email with a Privacy-Preserving Human Computation Workflow. *ACM Symposium on User Interface Software and Technology (UIST 2017)*. Quebec City, Canada. pp 807–815.
- C.01 S.R. Gouravajhala, J.Y. Song, J. Yim, R. Fok, Y. Huang, F. Yang, K. Wang, Y. An, W.S. Lasecki. Towards Hybrid Intelligence for Robotics. *Collective Intelligence Conference (CI 2017)*. New York, NY. 2017.

Journal Articles

- J.01 J.Y. Song, **R. Fok**, J. Kim, W.S. Lasecki. FourEyes: Leveraging Tool Diversity as a Means to Improve Aggregate Accuracy in Crowdsourcing. *ACM Transactions on Interactive Intelligent Systems (TiiS)*. 2018.

Workshop Papers

- W.02 S. R. Gouravajhala, H. Kaur, **R. Fok**, W. S. Lasecki. Challenges in Making Situated Interactions Accessible to Motor-Impaired Users. *CSCW Workshop on Accessible Voice Interfaces*. Jersey City, NJ. 2018.
- W.01 J.Y. Song, **R. Fok**, F. Yang, K. Wang, A. Lundgard, W.S. Lasecki. Tool Diversity as a Means of Improving Aggregate Crowd Performance on Image Segmentation Tasks. *HCOMP Workshop on Human Computation for Image and Video Analysis (GroupSight 2017)*. Quebec City, Canada. 2017.

In Submission

- S.01 J. Huffaker, J. Toronto, **R. Fok**, D. Ramesh, M. Zhong, H. Kaur, A. Echeverria, I. Wong, J. Chinnam, W.S. Lasecki. RL Without Borders: Providing Human Feedback to Reinforcement Learning Agents At Scale. *The Web Conference (In Submission)*. San Francisco, CA. 2019.

Experience

Research

- 09/2016 – present **Crowds and Machines Lab, University of Michigan**
Ann Arbor, MI Undergraduate Researcher

- 05/2016 – 08/2016 **Secure Systems Lab, New York University**
New York, NY Undergraduate Researcher

Professional

- 05/2018 – 08/2018 **Goldman Sachs**
New York, NY Technology Analyst Intern

- 05/2017 – 08/2017 **Material Matters**
Ann Arbor, MI Software Developer

Extracurricular

- 09/2016 – present **Michigan Mars Rover Project Team**
Ann Arbor, MI Software Engineer, Former Software Lead

- 01/2017 – present **University of Michigan CoE Honors Program**
Ann Arbor, MI Member

Awards

03/2018 **IUI (ACM Conference on Intelligent User Interface)**

Best Student Paper Honorable Mention

12/2017 **CRA-E Outstanding Undergraduate Researcher Finalist**

12/2016 – *present* **University of Michigan Dean's List**