Raymond Fok

Computer Science & Engineering
University of Washington

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Research Interests

My research explores the intersection of HCI and AI through the design and development of hybrid intelligent systems for data-driven applications, with a particular focus in applications for accessibility.

Areas: Human–Computer Interaction, Artificial Intelligence, Accessibility

Education

07/2019 – present *Seattle, WA*	**University of Washington** Ph.D., Computer Science Advisors: James Fogarty, Dan Weld
09/2016 – 05/2019 *Ann Arbor, MI*	**University of Michigan - Ann Arbor** BSE Computer Science, Minor in Mathematics Advisor: Walter Lasecki GPA: 3.9 / 4.0
09/2015 – 05/2016 *New York, NY*	**New York University - Tandon School of Engineering** BS Computer Science and Mathematics (transferred after 1st year) GPA: 4.0 / 4.0

Experience

Research

07/2019 – present *Seattle, WA*	**Computer Science & Engineering, University of Washington** Graduate Research Assistant
09/2016 – 08/2019 *Ann Arbor, MI*	**Crowds and Machines Lab, University of Michigan** Undergraduate Researcher
05/2016 – 08/2016 *New York, NY*	**Secure Systems Lab, New York University** Undergraduate Researcher

Professional

05/2018 – 08/2018 *New York, NY*	**Goldman Sachs** Technology Analyst Intern
05/2017 – 08/2017 *Ann Arbor, MI*	**Material Matters** Software Developer

Extracurricular

09/2016 – 05/2019 *Ann Arbor, MI*	**Michigan Mars Rover Project Team** Software Engineer, Software Lead
01/2017 – 05/2019 *Ann Arbor, MI*	**University of Michigan CoE Honors Program** Member

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*. (**CSCW 2018**). 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.

Skills

Python, C++, C, Java, HTML, JavaScript, React/Redux, SQL, ElasticSearch, PyTorch

Awards

09/2019 **CSE Educator's Endowed Fellowship in Computer Science and Engineering**

03/2018 **IUI (ACM Conference on Intelligent User Interface)**
Best Student Paper Honorable Mention

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

2016 – 2019 **University of Michigan Dean's List**