

Raymond Fok

PhD Candidate

Paul G. Allen School of Computer Science & Engineering

University of Washington

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Publication: [Google Scholar](#) | [Semantic Scholar](#)

RESEARCH INTERESTS

Human-Computer Interaction, Applications of AI for Scholarly Documents, Explainable AI

EDUCATION

University of Washington – Seattle, WA

2019 – Present Ph.D. in Computer Science

Advisor: Daniel Weld

2019 – 2021 M.S. in Computer Science

Advisors: James Fogarty, Daniel Weld

University of Michigan – Ann Arbor, MI

2016 – 2019 B.S. Computer Science; Minor in Mathematics

PROFESSIONAL EXPERIENCE

University of Washington, Computer Science & Engineering

09/2019 – Present Graduate Research Assistant, *HAI Lab*

Human-AI interaction, explainable AI, AI for scholarly documents

Adobe Research

06/2023 – 09/2023 Research Intern, *Document Intelligence*

Mentors: Alexa Siu, Nedim Lipka, Tong Sun

Marco: LLMs for sensemaking over document collections

Allen Institute for Artificial Intelligence

03/2023 – 06/2023 Research Intern, *Semantic Scholar*

Mentors: Joseph Chee Chang, Tal August, Amy Zhang, Daniel Weld

[Qlarify](#): Bridging scholarly abstracts and papers with expandable summaries

Google Research

09/2021 – 12/2021 Research Intern, *Gboard*
Mentors: Jiawei Chen, Shumin Zhai
Multimodal decoding models for gesture typing

Allen Institute for Artificial Intelligence

06/2021 – 09/2021 Research Intern, *Semantic Scholar*
Mentors: Andrew Head, Daniel Weld, Marti Hearst
[Scim](#): Intelligent skimming support for scientific documents

Allen Institute for Artificial Intelligence

09/2020 – 12/2020 Research Intern, *Semantic Scholar*
Mentor: Daniel Weld
Decision-theoretic models of error recovery in AI-infused UIs

Google Research

06/2020 – 09/2020 Software Engineering Intern, *Central Accessibility*
Mentors: Brinko Kobrin, Casey Burkhardt
Color picker feature in Google's [Accessibility Scanner](#)

University of Michigan, Computer Science & Engineering

12/2016–05/2019 Undergraduate Research Assistant, *CRO+MA Lab*
Hybrid intelligence systems, crowdsourcing methods, accessibility

Goldman Sachs

06/2018 – 09/2018 Technology Analyst Intern
Data analysis for privilege management

PUBLICATIONS

*, † denote equal contribution

Pre-prints

- P12. **Raymond Fok**, Joseph Chee Chang, Tal August, Amy X. Zhang, and Daniel S. Weld. [Qlarify: Bridging Scholarly Abstracts and Papers with Recursively Expandable Summaries](#). ArXiv, Oct. 2023
- P11. **Raymond Fok** and Daniel S. Weld. [In Search of Verifiability: Explanations Rarely Enable Complementary Performance in AI-Advised Decision Making](#). ArXiv, May 2023
- P10. Kyle Lo, Joseph Chee Chang, **Raymond Fok** (+50 authors), Marti A. Hearst, and Daniel S. Weld. [The Semantic Reader Project: Augmenting Scholarly Documents through AI-Powered Interactive Reading Interfaces](#). ArXiv, Apr. 2023

Peer-Reviewed Publications

- P9. Benjamin Newman, Luca Soldaini, **Raymond Fok**, Arman Cohan, and Kyle Lo. [A Controllable QA-based Framework for Decontextualization](#). EMNLP, 2023
- P8. **Raymond Fok**, Hita Kambhampettu, Luca Soldaini, Jonathan Bragg, Kyle Lo, Marti A. Hearst, Andrew Head, and Daniel S. Weld. [Scim: Intelligent Skimming Support for Scientific Papers](#). IUI, 2023
- P7. **Raymond Fok**, Mingyuan Zhong, Anne Spencer Ross, James Fogarty, and Jacob O. Wobbrock. [A Large-Scale Longitudinal Analysis of Missing Label Accessibility Failures in Android Apps](#). CHI, 2022
- P6. Andrew Head, Kyle Lo, Dongyeop Kang, **Raymond Fok**, Sam Skjonsberg, Daniel S. Weld, and Marti A. Hearst. [Augmenting Scientific Papers with Just-in-Time, Position-Sensitive Definitions of Terms and Symbols](#). CHI, 2021
- P5. Gagan Bansal*, Tongshuang Wu*, Joyce Zhou†, **Raymond Fok**†, Besmira Nushi, Ece Kamar, Marco Tulio Ribeiro, and Daniel S. Weld. [Does the Whole Exceed its Parts? The Effect of AI Explanations on Complementary Team Performance](#). CHI, 2021
- P4. Jean Y. Song, **Raymond Fok**, Juho Kim, and Walter S. Lasecki. [FourEyes: Leveraging Tool Diversity as a Means to Improve Aggregate Accuracy in Crowdsourcing](#). TiiS, 2019
- P3. **Raymond Fok**, Harmanpreet Kaur, Skanda Palani, Martez E. Mott, and Walter S. Lasecki. [Towards More Robust Speech Interactions for Deaf and Hard of Hearing Users](#). ASSETS, 2018
- P2. Jean Y. Song, Raymond Fok, Alan Lundgard, Fan Yang, Juho Kim, and Walter S. Lasecki. [Two Tools are Better Than One: Tool Diversity as a Means of Improving Aggregate Crowd Performance](#). IUI, 2018 **Best student paper honorable mention**
- P1. Saiganesh Swaminathan, **Raymond Fok**, Fanglin Chen, Ting-Hao (Kenneth) Huang, Irene Lin, Rohan Jadvani, Walter S. Lasecki, and Jeffrey P. Bigham. [WearMail: On-the-Go Access to Information in Your Email with a Privacy-Preserving Human Computation Workflow](#). UIST, 2017

Workshop Papers, Posters, and Extended Abstracts

- W3. **Raymond Fok** and Daniel S. Weld. [What Can't Large Language Models Do? The Future of AI-Assisted Academic Writing](#). In2Writing Workshop @ CHI, 2023
- W2. Ather Sharif, Paari Gopal, Michael Saugstad, Shiven Bhatt, **Raymond Fok**, Galen Weld, Kavi A. M. Dey, , and Jon E. Froehlich. [Experimental Crowd+AI Approaches to Track Accessibility Features in Sidewalk Intersections Over Time](#). ASSETS Posters & Demonstrations, 2021
- W1. Sai Gouravajhala, Jean Y Song, Jinyeong Yim, **Raymond Fok**, Yanda Huang, Fan Yang, Kyle Wang, Yilei An, , and Walter S. Lasecki. [Towards Hybrid Intelligence for Robotics](#). CI, 2017

MEDIA AND ACADEMIC COVERAGE

- 10/2023 [Speed read: This new AI-powered tool helps researchers skim through scientific papers](#)
Geekwire
- 08/2023 [Bringing Scientific Papers to Life](#)
ICDAR 2023 Keynote (*by Marti Hearst*)
- 05/2021 [ScholarPhi: A Novel Interface for Reading Scientific Papers](#)
University of California, Berkeley, School of Information
- 01/2018 [Selected as finalist for CRA UG research award; two others receive honorable mention](#)
University of Michigan, EECS

SERVICE

Reviewer

CHI	2021, 2022, 2024
CHI LBW	2023
WebConf	2023
CSCW	2022
UIST	2021
ICMI	2021

Updated October 2023