

# Mitchell L. Gordon

PhD Student, Computer Science Department  
Stanford University

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## Education

**Stanford University** 2016 – present  
Ph.D., Computer Science  
*Advisors:* Michael Bernstein and James Landay  
*Committee:* Tatsunori Hashimoto, Kayur Patel, Saleema Amershi, Jeff Hancock

**Stanford University** 2019  
Master of Science, Computer Science

**University of Rochester** 2016  
Bachelor of Science with honors and high distinction, Computer Science

## Research Interests

Human-computer interaction, human-centered AI, social computing

## Employment

**Apple**  
Research Intern. *Hosts:* Kayur Patel, Jeffrey Bigham 2022  
Research Intern. *Hosts:* Kayur Patel, Andrew Trister, Jeffrey Bigham, Carlos Guestrin 2018

**Google**  
Research Intern. *Host:* David Salesin 2020  
Software Engineering Intern 2014, 2015, 2016, 2017

**Carnegie Mellon University**  
Research Intern 2014

## Awards and Honors

2022 Best Paper award, ACM CHI (1% of submissions)  
2020 – 2022 Apple PhD Fellowship in AI/ML  
2020 Finalist, Facebook Fellowship  
2019 Oral, NeurIPS (0.5% of submissions)  
2019 Oral, WWW (5% of submissions)  
2016 – 2019 Stanford Graduate Fellowship  
2016 CRA Outstanding Undergraduate Researcher Award  
2015 2nd place, ACM Student Research Competition Grand Finals  
2014 1st place, ASSETS ACM Student Research Competition

## Publications

### Refereed Conference Papers

- [1] **Mitchell L. Gordon**, Michelle S. Lam, Joon Sung Park, Kayur Patel, Jeffrey T. Hancock, Tatsu Hashimoto, Michael S. Bernstein. Jury Learning: Integrating Dissenting Voices into Machine Learning Models. *CHI 2022: SIGCHI Conference on Human Factors in Computing Systems*. **Best Paper award (1% of submissions)**.

- [2] **Mitchell L. Gordon**, Kaitlyn Zhou, Kayur Patel, Tatsunori Hashimoto, Michael S. Bernstein. The Disagreement Deconvolution: Bringing Machine Learning Performance Metrics In Line With Reality. *CHI 2021: SIGCHI Conference on Human Factors in Computing Systems*.
- [3] **Mitchell L. Gordon\***, Sharon Zhou\*, Ranjay Krishna, Austin Narcomey, Li Fei-Fei, Michael S. Bernstein. HYPE: A Benchmark for Human eYe Perceptual Evaluation of Generative Models. *NeurIPS 2019: Conference on Neural Information Processing Systems*. **Oral presentation (0.5% of submissions)**.  
\* indicates equal contribution.
- [4] **Mitchell L. Gordon**, Tim Althoff, Jure Leskovec. Goal-setting And Achievement In Activity Tracking Apps: A Case Study Of MyFitnessPal. *WWW 2019: International World Wide Web Conference*. **Oral presentation (5% of submissions)**.
- [5] **Mitchell L. Gordon**, Leon Gatys, Carlos Guestrin, Jeffrey P. Bigham, Andrew Trister, Kayur Patel. App Usage Predicts Cognitive Ability in Older Adults. *CHI 2019: SIGCHI Conference on Human Factors in Computing Systems*.
- [6] **Mitchell L. Gordon**, Shumin Zhai. Touchscreen Haptic Augmentation Effects On tapping, Drag and Drop, and Path Following. *CHI 2019: SIGCHI Conference on Human Factors in Computing Systems*.
- [7] Harmanpreet Kaur, **Mitchell Gordon**, Yiwei Yang, Jeffrey P Bigham, Jaime Teevan, Ece Kamar, Walter S Lasecki. Crowdmask: Using crowds to preserve privacy in crowd-powered systems via progressive filtering. *HCOMP 2017: AAAI Conference on Human Computation*.
- [8] **Mitchell Gordon**, Tom Ouyang, Shumin Zhai. WatchWriter: Tap and Gesture Typing on a Smartwatch with Miniature Qwerty and Beyond. *CHI 2017: SIGCHI Conference on Human Factors in Computing Systems*.
- [9] **Mitchell Gordon** and Philip J. Guo. Codepourri: Creating Visual Coding Tutorials Using A Volunteer Crowd Of Learners. *VL/HCC 2015: IEEE Symposium on Visual Languages and Human-Centric Computing*.
- [10] Joyce Zhu, Jeremy Warner, **Mitchell Gordon**, Jeffery White, Renan Zanelatto, Philip J. Guo. Toward a Domain-Specific Visual Discussion Forum for Learning Computer Programming: An Empirical Study of a Popular MOOC Forum. *VL/HCC 2015: IEEE Symposium on Visual Languages and Human-Centric Computing*.
- [11] Walter S. Lasecki, **Mitchell Gordon**, Winnie Leung, Ellen Lim, Jeffrey P. Bigham, Steven P. Dow. Exploring Privacy and Accuracy Trade-Offs in Crowdsourced Behavioral Video Coding. *CHI 2015: SIGCHI Conference on Human Factors in Computing Systems*.
- [12] Walter S. Lasecki, **Mitchell Gordon**, Malte Jung, Danai Koutra, Steven P. Dow, Jeffrey P. Bigham. Glance: Rapidly Coding Behavioral Video with the Crowd. *UIST 2014: ACM Symposium on User Interface Software and Technology*.

### Book Chapters

- [13] Ranjay Krishna, **Mitchell L. Gordon**, Li Fei-Fei, Michael S. Bernstein. Visual Intelligence through Human Interaction. Yang Li and Otmar Hilliges, Editors. In *Artificial Intelligence for Human Computer Interaction: A Modern Approach*. Springer, 2021.

### Workshop Papers

- [14] Y. Alex Kolchinski, Sharon Zhou, Shengjia Zhao, **Mitchell L. Gordon**, Stefano Ermon. Approximating Human Judgment of Generated Image Quality. In *Proceedings of the 2019 NeurIPS Workshop on Shared Visual Representations in Human and Machine Intelligence*.
- [15] Walter S. Lasecki, **Mitchell Gordon**, Jamie Teevan, Ece Kamar, Jeffrey P. Bigham. Preserving Privacy in Crowd-Powered Systems. In *Proceedings of the 2015 AAMAS Workshop on Human-Agent Interaction Design and Models (HAIDM 2015)*.

### Posters, Works in Progress, Demonstrations

- [16] **Mitchell L. Gordon**. Harnessing Disagreement to Create AI-Powered Systems That Reflect Our Values. In *UIST 2021 Doctoral Symposium*.
- [17] Jihyeon Lee, **Mitchell Gordon**, Maneesh Agrawala. Automatically Visualizing Audio Travel Podcasts. In *UIST 2017*.
- [18] Jinyeong Yim, Jeel Jasani, Aubrey Henderson, Danai Koutra, Steven P Dow, Winnie Leung, Ellen Lim, **Mitchell Gordon**, Jeffrey P Bigham, Walter S Lasecki. Coding Varied Behavior Types Using the Crowd. In *CSCW 2016*.
- [19] **Mitchell Gordon**, Jeffrey P. Bigham, Walter S. Lasecki. LegionTools: A Toolkit + UI for Recruiting and Routing Crowds to Synchronous Real-Time Tasks. In *UIST 2015*.
- [20] **Mitchell Gordon**, Walter S. Lasecki, Winnie Leung, Ellen Lim, Steven P. Dow, Jeffrey P. Bigham. Glance Privacy: Obfuscating Personal Identity While Coding Behavioral Video. In *HCOMP 2014*.
- [21] **Mitchell Gordon**. Web Accessibility Evaluation with the Crowd: Using Glance to Rapidly Code User Testing Video. In *ASSETS 2014*. **2nd place at ACM Grand Finals SRC, 1st place at ASSETS SRC**.

- [22] Walter S. Lasecki, **Mitchell Gordon**, Steven P. Dow, Jeffrey P. Bigham. Glance: Enabling Rapid Interactions with Data Using the Crowd. *In CHI 2014*.
- [23] Daniel Scarafoni, **Mitchell Gordon**, Walter S. Lasecki, Jeffrey P. Bigham. Comparing Human and Automated Agents in a Coordinated Navigation Domain. *In University of Rochester Undergraduate Research Exposition 2014 and University of Rochester Technical Report #989*. **Professors' Choice Award**.

## Teaching

- Spring 2021 Course Assistant, CS 278: Social Computing, Stanford University.
- Spring 2014 Workshop Leader, CSC 171: Science of Programming, University of Rochester.
- Fall 2013 Teaching Assistant, CSC 171: Science of Programming, University of Rochester.

## Reviewing

ACM CHI	2017, 2018, 2019, 2020, 2021, 2022
ACM CSCW	2017, 2020, 2021, 2022
ACM UIST	2017, 2018, 2019, 2022
NEURIPS	2021, 2022
ICLR	2022
ICML	2022
NAACL HCI + NLP WORKSHOP (PC MEMBER)	2022
WWW / THEWEBCONF (PC MEMBER)	2018, 2019, 2020
SCIENTIFIC DATA (NATURE)	2019
VLDB	2019
HUMAN-COMPUTER INTERACTION (JOURNAL)	2018
DIS	2017
HCOMP	2017

## University and Departmental Service

- 2021 HCI co-chair, PhD Admit Day, Stanford Computer Science
- 2020 – 2021 Member, PhD Advisory Council, Stanford Computer Science
- 2019 – 2021 Social Events Co-Chair, Stanford HCI Group. Organized lab-wide 50+ person ski retreat.
- 2019 – 2020 CS Representative, Wellness Information Network for Graduate Students (WINGS), Stanford School of Engineering
- 2019 – 2020 HCI Seminar Organizer, Stanford HCI Group
- 2019 – 2020 PhD Liaison to the Faculty, Stanford Computer Science

## Students Mentored

### Ph.D. (non-advisees)

- [1] Jordan Troutman
- [2] Michelle Lam
- [3] Joon Sung Park
- [4] Kaitlyn Zhou

### Undergraduate

- [5] Gabby Wright
- [6] Eric Frankel
- [7] Jihyeon (Janel) Lee