

**Motahhare Eslami**  
(Motahareh Eslamimehdiabadi)

Carnegie Mellon University, School of Computer Science  
Human-Computer Interaction Institute

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**APPOINTMENTS**

- Assistant Professor, Carnegie Mellon University, School of Computer Science  
Human-Computer Interaction Institute (HCII) & Software and Societal Systems Department (S3D) 2020-Present
  - UX Researcher, Meta 2019-2021
  - Graduate Research Assistant, Computer Science Department,  
University of Illinois at Urbana-Champaign 2012-2019
  - Research Intern, Adobe Research, San Francisco, CA Spring & Summer 2017
  - Research Intern, Max Planck Institute for Software Systems Fall 2015
  - Graduate Research Assistant, Computer Engineering Department,  
Sharif University of Technology 2009-2012
  - Undergraduate Research Assistant, Computer Engineering Department,  
Sharif University of Technology 2007-2009
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**EDUCATION**

- Ph.D.*, Computer Science, University of Illinois at Urbana-Champaign, Illinois, U.S. 2019  
*Thesis*: “Participating and Designing around Algorithmic Sociotechnical Systems”  
*Committee*: Karrie Karahalios, Christian Sandvig, Brian Bailey, Hari Sundaram, Kevin Hamilton
- M.Sc.*, Computer Engineering, Sharif University of Technology, Tehran, Iran 2011
- B.Sc.*, Computer Engineering, Sharif University of Technology, Tehran, Iran 2009
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**RESEARCH INTERESTS**

My work draws on *Human-Computer Interaction*, *Social Computing* and *Data Mining* techniques to empower the users of algorithmic systems, particularly those who belong to marginalized communities or those whose decisions impact those communities, make transparent, fair, and informed decisions in interaction with algorithmic systems.

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**HONORS AND AWARDS**

- **Teaching Innovation Award**, Carnegie Mellon University 2023
- **Honorable Mention Award for Best Paper**, CHI 2023
- **Named one of “100 Brilliant Women in AI Ethics”** 2023
- **Honorable Mention Award for Best Paper**, CSCW 2021
- **Google PhD Fellowship** 2017-2020
- **Best Reviewer Award**, International Conference on Web & Social Media (ICWSM) 2018  
Awarded to the top 20 reviewers
- **Heidelberg Laureate Forum Young Researcher** 2018  
A prestigious international mathematics and computer science Forum (11% acceptance rate)

- **C.W. Gear Outstanding Graduate Student Award** 2017  
Awarded annually to a graduate student who has demonstrated excellence in research, Department of Computer Science at University of Illinois at Urbana-Champaign
  - **Adobe PhD Fellowship Finalist** 2017
  - **Saburo Muroga Endowed Fellowship** 2016  
Awarded to outstanding graduate students in Computer Science, University of Illinois at Urbana-Champaign
  - **Feng Chen Memorial Award** 2016  
Awarded to students who are first authors on a paper that has won a best paper award, Department of Computer Science, University of Illinois at Urbana-Champaign
  - **Facebook PhD Fellowship Finalist** 2016
  - **Selected for Rising Stars in EECS Workshop** 2015, 2016
  - **Best Paper Award, ACM CHI** 2015
  - **CS Grace Hopper Conference Scholarship**, University of Illinois at Urbana-Champaign 2014
  - **Honorable Mention in Facebook Midwest Regional Hackathon** 2013
  - **Exceptional Talent Award**, M.S., Computer Engineering (IT), Sharif University of Technology 2011
  - **3<sup>rd</sup> Rank in GPA**, M.S., Computer Engineering (IT), Sharif University of Technology 2011
  - **Exceptional Talent Award**, B.S., Computer Engineering (IT), Sharif University of Technology 2009
  - **1<sup>st</sup> rank in GPA**, B.S., Computer Engineering (IT), Sharif University of Technology 2009
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#### GRANTS

- **Scaffolding Responsible AI Practice at the Earliest Stages of Ideation, Problem Formulation and Project Selection** *Awarded, Co-PI*  
\$350,193  
PwC 2022-2023  
with Ken Holstein, John Zimmerman, Jodi Forlizzi, Haiyi Zhu, Hoda Heidari, and Christian Kaestner
- **Bridging Policy Gaps in the Life Cycle of Public Algorithmic Systems** *Awarded, PI*  
Block Center, CMU \$80,000  
*with Ken Holstein & Sarah Fox* 2022-2023
- **Developing Community-Led & Equity-Focused Public Interest Technology Curriculum** *Awarded, Co-PI*  
\$89,457  
The Public Interest Technology University Network (PIT-UN) Challenge 2022-2023  
*with Sarah Fox, Michael Skirpan, Hong Shen, Rayid Ghani*
- **The AI Institute for Collaborative Assistance and Responsive Interaction for Networked Groups (AI-CARING)** *Awarded, Senior Personnel*  
\$20,000,000  
NSF AI Institute (NSF, Amazon and Google) 2021-2026  
*With Georgia Institute of Technology, Carnegie Mellon University, Oregon State University, University of Massachusetts Lowell, and Oregon Health & Science University*
- **Combining Human and Machine Intelligence to Improve Equity and Fairness in the Work of Municipal, Public Sector Decision Making** *Awarded, PI*  
\$150,000  
NSF Program on Future of Work 2021-2022  
*with John Zimmerman*

- **Organizing Crowd Audits to Detect Bias in Machine Learning**
Awarded, Co-PI  
 NSF Program on Fairness in Artificial Intelligence (FAI)
 \$1,000,000  
*with Jason Hong, Ken Holstein, Hong Shen, Adam Perer, and Nihar Shah*
2021-2024
  
- **Human-AI Collaborative Intelligence:**
Awarded, PI  
**The Roles and Interactions of Human & AI in Content Enforcement Systems**
\$50,000  
 Facebook Research (*with Heidi Soedarmo*)
 2021
  
- **Harnessing Everyday Users' Collective Power to Audit**
Awarded, PI  
**Algorithmic Bias in AI Systems**
\$100,000  
 Cisco Research, Ethics in AI
 2021-2022  
*with Jason Hong, Ken Holstein, Hong Shen, Adam Perer, and Nihar Shah*

## PUBLICATIONS

### Refereed Conference and Journal Publications

- [35] S. Kim, B. Fan, W. Yang, J. Ramey, S. Fox, H. Zhu, J. Zimmerman and **M. Eslami**. *Minding the Gap Between Public Technology and Equity in Public Service Delivery*, Under Review, 2023.
- [p34] B. Fan, H. Shen, W. Yang, Beth. Schwanke<sup>+</sup>, Y. Li<sup>+</sup>, R. Farzan<sup>+</sup>, S. Fox<sup>+</sup>, **M. Eslami**<sup>+</sup>. “Algorithms are used on us and we don’t even know it”: Local Community Awareness, Concerns and Asks of Public Sector Algorithms, (<sup>+</sup>: equal contribution), Under Review , 2023.
- [p33] S. Kim, B. Fan, W. Yang, Y. Li, J. Ho, S. Fox, J. Ramey, H. Zhu, J. Zimmerman, **M. Eslami**. *Designing for Equity in Public Sector Data-Driven Innovations: Exploring the Desired Futures of Historically Underserved Business Owners*, Under Review, 2023.
- [p32] F. Alizadeh, D. Lawo, J. Kruger, G. Stevens, **M. Eslami**. *When the “Matchmaker” Does Not Have Your Interest at Heart: Understanding Algorithmic Damages to Relationship-Building and Users’ Power Struggles on Tinder Platform*, Under Review, 2023.
- [p31] A. DeVrio, **M. Eslami**<sup>+</sup>, K. Holstein<sup>+</sup>, *Building, Shifting, & Employing Power: A Framework for Understanding & Empowering Public Responses to Algorithmic Harm*, Under Review, 2023.
- [p30] W. Deng, N. Yildirim, M. Chang, **M. Eslami**, K. Holstein and M. Madaio, *Exploring Opportunities to Support Cross-functional Collaboration for AI Fairness in Industry Practice*, ACM Conference on Fairness, Accountability, and Transparency (ACM FAccT), 2023.
- [P29] J. Solyst, E. Yang, S. Xie, A. Ogan, J. Hammer, **M. Eslami**, *The Potential of Diverse Youth in Identifying and Mitigating Algorithmic Bias for a Future of Fair AI*, Proceedings of ACM in Human Computer Interaction (PACM), 2023, CSCW.
- [p28] R. Li, S. Kingsley, C. Fan, P. Sinha, N. Wai, J. Lee, H. Shen, **M. Eslami**, J. Hong. *Participation and Division of Labor in User-Driven Algorithm Audits: How Do Everyday Users Work Together to Surface Algorithmic Harms?*, ACM Conference on Human Factors in Computing Systems (CHI), 2023.
- [p27] J. Solyst, S. Xie, E. Yang, A. Stewart, **M. Eslami**, J. Hammer, A. Ogan. “I Would Like to Design”: Black Girls Analyzing and Ideating Fair and Accountable AI. ACM Conference on Human Factors in Computing Systems (CHI), 2023. **Honorable Mention Award for Best Paper**

- [p26] W. Deng, B. Guo, A. DeVrio, H. Shen, **M. Eslami**<sup>+</sup>, K. Holstein<sup>+</sup>, *Understanding Practices, Challenges, and Opportunities for User-Engaged Algorithm Auditing in Industry Practice*, (+: equal contribution), ACM Conference on Human Factors in Computing Systems (CHI), 2023.
- [p25] S. Singlaa, **M. Eslami**, B. Pollackc, S. Wallaced, K. Batmanghelich, “*Explaining the Black-box Smoothly - A Counterfactual Approach*”, Medical Image Analysis, Elsevier Journal, 2023.
- [p24] A. London, Y. Razin, J. Borenstein, **M. Eslami**, R. Perkins, and P. Robinette *Ethical Issues in Near-Future Socially Supportive Smart Assistants for Older Adults*, IEEE Transactions on Technology and Society, 2023.
- [p23] S. Kingsley, P. Sinha, C. Wang, **M. Eslami**, and J. Hong; “*Give everybody [...] a little bit more equity*”: *Content Creator Perspectives and Responses to Algorithmic Demonetization of Content Associated with Marginalized Communities*, Proceedings of ACM in Human Computer Interaction (CSCW), 2022.
- [p22] J. Solyst, A. Axon, A.E.B. Stewart, **M. Eslami**, and A. Ogan. Investigating Girls’ Perspectives and Knowledge Gaps on Ethics and Fairness in Artificial Intelligence in a Lightweight Workshop. The International Conference of the Learning Sciences (ICLS), 2022.
- [p21] A. DeVos, A. Dhabalia, H. Shen, K. Holstein<sup>+</sup>, and **M. Eslami**<sup>+</sup>. *Toward User-Driven Algorithm Auditing: Investigating Users’ Strategies for Uncovering Harmful Algorithmic Behavior*. CHI 2022. (+: equal contribution) **Graduate Student Poster Grand Prize at Grefenstette Tech Ethics Symposium**
- [p20] J. Park, K. Karahalios, N. Salehi, and **M. Eslami**. *Power Dynamics and Value Conflicts in Designing and Maintaining Socio-Technical Algorithmic Processes*, Proceedings of ACM in Human Computer Interaction (CSCW), 2022.
- [p19] H. Shen\* and A. DeVos\*, **M. Eslami**<sup>+</sup> and K. Holstein<sup>+</sup>. *Everyday Algorithm Auditing: Understanding the Power of Everyday Users in Surfacing Harmful Algorithmic Behaviors*. Proceedings of ACM in Human Computer Interaction (CSCW), 2021. (+: equal contribution)
- [p18] N. Karizat, D. Delmonaco, **M. Eslami**, N. Andalibi. *Algorithmic Folk Theories and Identity: How TikTok Users Engage in Algorithmic Resistance and Identity Co-Production*. Proceedings of ACM in Human Computer Interaction (CSCW), 2021. **Honorable Mention Award for Best Paper**
- [p17] J. Asplund, **M. Eslami**, H. Sundaram, C. Sandvig and K. Karahalios. *Auditing Race and Gender Discrimination in Online Housing Markets*. AAAI International Conference of Weblogs and Social Media (ICWSM), 2020.
- [p16] **M. Eslami**, K. Vaccaro, M. K. Lee, A. Elazari Bar On, E. Gilbert, and K. Karahalios. *User Attitudes towards Algorithmic Opacity and Transparency in Online Reviewing Platforms*. ACM Conference on Human Factors in Computing Systems (CHI), 2019. [Acceptance Rate: 23.8%]
- [p15] J. Salminen, J. M. Santos, S. Jung, **M. Eslami**, and B. J. Jansen. *Persona Transparency: Analyzing the Impact of Explanations on Perceptions of Data-Driven Personas*, International Journal of Human-Computer Interaction, 2019.
- [p14] **M. Eslami**, S. R. Krishna Kumaran, C. Sandvig, K. Karahalios. *Communicating Algorithmic Process in Online Behavioral Advertising*. Proceedings of the ACM Conference on Human Factors in Computing Systems Conference (CHI), 2018. [Acceptance Rate: 26%]
- [p13] K. Vaccaro, D. Huang, **M. Eslami**, C. Sandvig, K. Hamilton, and K. Karahalios. *The Illusion of Control: Placebo Effects of Control Settings*. Proceedings of the ACM Conference on Human Factors in Computing Systems Conference (CHI), 2018. [Acceptance Rate: 26%]

[p12] J. Kulshrestha, **M. Eslami**, J. Messias, M. B. Zafar, S. Ghosh, K. P. Gummadi, and K. Karahalios. *Search bias quantification: investigating political bias in social media and web search*. Information Retrieval Journal, 1-40, 2018.

[p11] **M. Eslami**, K. Vaccaro, K. Karahalios, and K. Hamilton. “Be careful; things can be worse than they appear”: *Understanding Biased Algorithms and Users’ Behavior around Them in Rating Platforms*. The AAAI International Conference of Weblogs and Social Media (ICWSM), 2017. [Acceptance Rate: 14%]

[p10] J. Kulshrestha, **M. Eslami**, J. Messias, M. B. Zafar, S. Ghosh, K. Gummadi, and K. Karahalios. *Quantifying Search Bias: Investigating Sources of Bias for Political Searches in Social Media*. Proceedings of the ACM Conference on Computer Supported Cooperative Work (CSCW), 2017. [Acceptance Rate: 34.5%]

[p9] **M. Eslami**, K. Karahalios, C.Sandvig, K. Vaccaro, A. Rickman, K. Hamilton, and A. Kirlik. *First I “like” it, then I hide it: Folk Theories of Social Feeds*. Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI), 2016. [Acceptance Rate: 23.5%]

[p8] **M. Eslami**, A. Rickman, K. Vaccaro, A. Aleyasen, A. Voung, K. Karahalios, K. Hamilton, and C.Sandvig. “I always assumed that I wasn’t really that close to [her]”: *Reasoning about Invisible Algorithms in News Feeds*. Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI), 2015. [Acceptance Rate: 23%] **Best Paper Award**

[p7] **M. Eslami**, A. Aleyasen, R. Zilouchian Moghadam and K. Karahalios. *Friend Grouping Algorithms for Online Social Networks: preference, bias, and implications*. International Conference on Social Informatics (SocInfo), 2014. [Acceptance Rate: 23%]

[p6] E. S. Hosseini, V. Esmaealzadeh, and **M. Eslami**. *A Hierarchical Sub-Chromosome Genetic Algorithm (HSC-GA) to Optimize Power Consumption and Data Communications Reliability in Wireless Sensor Networks*. Wireless Personal Communications (Springer). Vol. 80, no. 4, pp. 1579-1605, Oct. 2014.

[p5] **M. Eslami**, H. R. Rabiee, and M. Salehi. *Sampling from Diffusion Networks*. ASE and IEEE International Conference on Social Informatics, 2012. [Acceptance Rate: 11.5%]

[p4] P. Siyari, H. R. Rabiee, M. Salehi, and **M. Eslami**. *Network Reconstruction under Compressive Sensing*. ASE Human Journal. Vol.1, issue 3, pp. 130-143, 2012.

[p3] P. Siyari, H. R. Rabiee, M. Salehi and **M. Eslami**. *Network Reconstruction under Compressive Sensing*. ASE and IEEE International Conference on Social Informatics, 2012. [Acceptance Rate: 11.5%]

[p2] **M. Eslami**, H. R. Rabiee, and M. Salehi. *Diffusion-Aware Sampling and Estimation in Information Diffusion Networks*. IEEE International Conference on Social Computing, 2012. [Acceptance Rate < 10%]

[p1] **M. Eslami**, H. R. Rabiee, and M. Salehi. *DNE: A Method for Extracting Cascaded Diffusion Networks from Social Networks*. IEEE International Conference on Social Computing, 2011. [Acceptance rate: 9.8%]

### **Extended Abstracts & Work-in-Progress Papers**

[e17] Eric Gilbert, S. Schoenebeck, **M. Eslami**, C. Goray, *Sociotechnical Perspectives on Social Media Regulation*, CHI, Workshop on Designing Technology and Policy Simultaneously: Towards A Research Agenda and New Practice, 2023.

[e16] **M. Eslami**, K. Holstein, S. Fox, A. Huq, *Bridging Policy Gaps between Technocratic and Democratic Approaches to Accountability Across the Lifecycle of Public Sector Algorithmic Systems*, CHI, Workshop on Designing Technology and Policy Simultaneously: Towards A Research Agenda and New Practice, 2023.

- [e15] S. Kim, B. Fan, W. Yang, Y. Li, J. Ho, S. Fox, J. Ramey, H. Zhu, J. Zimmerman, **M. Eslami**, *Designing for Equity in Public Sector Data-Driven Innovations and Implications for Policy*, CHI, Workshop on Designing Technology and Policy Simultaneously: Towards A Research Agenda and New Practice, 2023.
- [e14] W. Deng, **M. Eslami**, K. Holstein. *Towards “Anytime, Anywhere” Community Learning and Engagement around the Design of Public Sector AI*, CHI, AI Literacy Workshop, 2023.
- [e13] J. Solyst, E. Yang, S. Xie, A. Ogan, J. Hammer, **M. Eslami**, *Investigating Children’s Possible Role in Recognizing Algorithmic Bias and Defining Fairness in AI*, CHI, Workshop on Child-centred AI Design: Definition, Operation and Considerations (CCAI), 2023.
- [e12] L. Stapleton, D. Saxena, A. Kawakami, T. Nguyen, A. Ammitzbøll Flügge, **M. Eslami**, N. Holten Møller, M. Lee, S. Guha, K. Holstein, H. Zhu. *Who Has an Interest in “Public Interest Technology”?: Critical Questions for Working with Local Governments & Impacted Communities*. Companion Publication of the 2022 Conference on Computer Supported Cooperative Work and Social Computing (CSCW), 2022.
- [e11] **M. Eslami** and K. Karahalios. *Communicating the Algorithmic Self to Users*. The AAAI International Conference of Weblogs and Social Media (ICWSM), Workshop on Data Driven Persona and Human-Driven Analytics, 2018.
- [e10] **M. Eslami** and K. Karahalios. *Embracing Seamfulness and Uncertainty in Designing around Hidden Algorithms*. ACM Conference on Human Factors in Computing Systems (CHI), Workshop on Designing for Uncertainty in HCI: When Does Uncertainty Help?, 2017.
- [e9] **M. Eslami** and K. Karahalios. *Investigating Users’ Understanding of Invisible Algorithms and Designing around It*. The AAAI International Conference of Weblogs and Social Media (ICWSM), Workshop on Studying User Perceptions and Experiences with Algorithms, 2017.
- [e8] **M. Eslami**. *Understanding and Designing around Users’ Interaction with Hidden Algorithms in Socio-technical Systems*. ACM Conference on Computer Supported Cooperative Work (CSCW) Doctoral Colloquium, 2017.
- [e7] **M. Eslami**, A. Aleyasen, K. Karahalios, K. Hamilton and C. Sandvig. *FeedVis: A Path for Exploring News Feed Curation Algorithms*. ACM Conference on Computer Supported Cooperative Work (CSCW), Demonstration Paper, 2015.
- [e6] **M. Eslami**, A. Rickman, K. Vaccaro, A. Aleyasen, K. Karahalios, K. Hamilton, and C. Sandvig. *Exposure to the Invisible: Reasoning about Hidden Algorithms in the News Feed*, International Conference on Computational Social Science ( $IC^2S^2$ ), 2015.
- [e5] **M. Eslami**. *Exposure to the Invisible: Algorithm Awareness from the Individual to the Collective*. CSL Student Conference, University of Illinois at Urbana-Champaign, 2015.
- [e4] K. Hamilton, K. Karahalios, C. Sandvig and **M. Eslami**. *A Path to Understanding the Effects of Algorithm Awareness*. Alt.Chi: Extended Abstracts of the ACM Conference on Human Factors in Computing Systems (CHI), 2014.
- [e3] N. Spirin, **M. Eslami**, J. Ding, P. Jain, B. Bailey and K. Karahalios. *Searching for Design Examples with Crowdsourcing*. International World Wide Web Conference (WWW) Poster, 2014.
- [e2] **M. Eslami**, A. Aleyasen, R. Zilouchian Moghadam and K. Karahalios. *Evaluation of Automated Friend Grouping in Online Social Networks*. Extended Abstracts of the ACM Conference on Human Factors in Computing Systems (CHI), 2014.
- [e1] **M. Eslami**, A. Aleyasen and K. Karahalios. *Make Community Detection More Human*. The Human

## TEACHING EXPERIENCE

### Instructor

- Fairness, Accountability, Transparency, and Ethics (FATE) in Sociotechnical Systems Spring & Fall 2022
- User-Centered Research and Evaluation (UCRE), HCII, CMU Spring & Fall 2021, Spring 2023

### Invited Guest Lectures

- “(Ir)responsible AI: Fairness and Bias in Algorithmic Systems ” Spring 2022  
Social Web taught by Hiro Shirado, HCII, CMU
- “(Ir)responsible AI: Algorithmic Fairness and Bias in Criminal Justice” Fall 2021  
AI, Ethics and Society, taught by Alex London, Department of Philosophy, CMU
- “Responsible AI: Supporting (Enough) Transparency and Bias-Awareness in AI Systems” Spring 2021  
Fairness in Machine Learning, taught by Yu-Ru Lin, School of Computing and Information, University of Pittsburgh
- “Responsible AI: Supporting (Enough) Transparency and Bias-Awareness in AI Systems” Fall 2020  
Software Engineering for AI-Enabled Systems, taught by Christian Kastner & Eunsuk Kang, ISR, CMU
- “User Attitudes towards Algorithmic Opacity and Transparency” Fall 2020  
Designing Artificial Intelligence for the Long-term, taught by Chinmay Kulkarni, HCII, CMU
- “Participating and Designing around Algorithmic Sociotechnical Systems” Fall 2019  
HCI for ML, taught by Ranjitha Kumar, CS Department, UIUC
- “Participating and Designing around Algorithmic Sociotechnical Systems” Fall 2019  
Social Computing, taught by Catherine Grevet Delcourt, CS Department, Wellesley College
- “Communicating Algorithmic Process in Online Behavioral Advertising” Fall 2018  
Computational Advertising, taught by Hari Sundaram, CS Department, UIUC

### Teaching Assistant

- Introduction to Data Mining, CS Department, UIUC Spring 2018
- Stochastic Processes, Sharif University of Technology Fall 2011
- Multimedia Networks, Sharif University of Technology Spring 2010
- Software Engineering, Sharif University of Technology Spring 2009
- Advanced Programming (Java), Sharif University of Technology Fall 2008
- Introduction to Programming (C++), Sharif University of Technology Fall 2007, Spring 2008

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## ADVISING EXPERIENCE

### Ph.D. Students/Collaborators

- Wesley Deng, HCII, CMU Summer 2021-present  
Co-designing crowd audit services with industry AI/ML Practitioners
- Seyun Kim, HCII, CMU Fall 2021-present  
Combining Human and Machine Intelligence to Improve Equity and Fairness in the Work of Municipal, Public Sector Decision Making

- *Jaemarie Solyst*, HCII, CMU Fall 2021-present  
Positioning people as technosocial change agents through working with a diverse range of stakeholders to investigate and (co-)design empowering, playful, and informative experiences with and about technology.
- *Alicia DeVrio*, HCII, CMU Fall 2020-present  
Organizing crowd audits to detect bias in machine learning systems
- *Sara Kingsley*, HCII, CMU Fall 2020-present  
Investigating and Auditing algorithmic harms
- *Bonnie Fan*, HCII, CMU Fall 2020-2022  
Community's participation and intervention in designing and developing public-sector AI systems

### M.Sc. Students

- *Yuwen Lu*, HCII, CMU Spring 2021  
Breaking political filter bubbles via social comparison
- *Janelle Wen*, HCII, CMU Spring 2021  
Auditing and building equitable public-sector AI infrastructures
- *Aditi Dhabalia*, HCII, CMU Fall 2020-present  
Organizing crowd audits to detect bias in machine learning systems
- *Joon Park*, CS Department, UIUC 2018-present  
Adding transparency into opaque algorithmic systems  
(now Ph.D. student at Stanford)
- *Joshua Asplund*, CS Department, UIUC: 2018  
Auditing race and gender discrimination in online housing markets
- *Jingning Zhang*, CS Department, UIUC: Fall 2014 & Spring 2015  
Fiddler, a visualization prototype interface for making sense of newsfeeds  
(now software engineer at Facebook)
- *Payam Siyari*, CE Department, Sharif University: Network reconstruction under Spring 2012  
compressive sensing  
(now senior data scientist, Uber Technologies Inc.)

### B.Sc. Students

- *Bill Guo*, HCII, CMU Summer-present 2021  
Co-designing crowd audit services with industry AI/ML Practitioners
- *Sarah Chen*, HCII, CMU Spring 2021  
Auditing and building equitable public-sector AI infrastructures
- *Jai Sawkar*, HCII, CMU Spring 2021  
Auditing and building equitable public-sector AI infrastructures
- *Erica Chiang*, HCII, CMU Fall 2020  
Organizing crowd audits to detect bias in machine learning systems
- *Justin Zhang*, HCII, CMU Fall 2020  
Organizing crowd audits to detect bias in machine learning systems
- *Andy Vuong*, CS Department, UIUC Spring 2014  
Teaching HCI fundamentals (PURE program)
- *Akshat Gupta*, CS Department, UIUC Spring 2014  
Teaching HCI fundamentals (PURE program)
- *Akshun Gupta*, CS Department, UIUC Spring 2014  
Teaching HCI fundamentals (PURE program)

### Interns



- *Nouran Soliman*: Breaking political filter bubbles via social comparison (now Ph.D. student at MIT) 2018-present

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## Invited Talks & Panels

- **Women in Math and Computing Symposium- Research Panel** 2023  
Carnegie Mellon University
- **CMU Society of Women Engineers High School Day** 2022  
Guided the preparation of a session about youth engagement with responsible AI
- **Reflections|Projections**, University of Illinois at Urbana-Champaign 2022  
The largest student run technology conference in the midwest  
*(Ir)responsible AI: Reviewing & Revisiting Accountability Efforts in AI Systems*
- **ECSCW** (European Conference on Computer-Supported Cooperative Work) 2022  
*“Appropriate Trust in Human-AI Interactions”* Panel
- **Just Films**, Chatham University 2022  
*“Coded Bias”*
- **Learning at Scale (L@S) Conference, Keynote Speaker** 2021  
*“Revisiting Algorithmic Transparency and Fairness Through the Lens of Public Education and Engagement”*
- **ICLR 2021 Workshop on Responsible AI** 2021  
*“(Ir)responsible AI: Revisiting Transparency and Fairness in AI Systems”*
- **Software Research Seminar**, Institute for Software Research (ISR), CMU 2021  
*“(Ir)responsible AI: Revisiting Transparency and Fairness in AI Systems”*
- **Seamful Design Seminar**, University of Siegen, Germany 2021  
*“Responsible AI: Supporting (Enough) Transparency and Bias-Awareness in AI Systems”*
- **Urbana Champaign Data Science User Group**, UIUC, Champaign, IL 2020  
**Virtual Computer Science Camp for Refugees**, James Madison University  
*“Responsible AI: Supporting (Enough) Transparency and Bias-Awareness in AI Systems”*
- **Facebook Core Data Science Seminar**, Menlo Park, CA 2020  
*“Participating and Designing around Algorithmic Sociotechnical Systems”*
- **Facebook Digital Advertising Workshop**, Menlo Park, CA 2019  
*“Communicating Algorithmic Process in Online Behavioral Advertising”*
- **Stanford HCI Seminar**, Palo Alto, CA 2019  
**SummerPIT-Understandable AI**, Aarhus University, Denmark  
**Carnegie Mellon University, HCI Institute**, Pittsburgh, PA  
**University of Michigan, School of Information**, Ann Arbor, Michigan  
**Cornell University, Informmation Science Department**, Ithaca, NY  
**University of Maryland, Computer Science Department**, College Park, Maryland  
**University of Southern California, Computer Science Department**, Los Angeles, CA  
**University of Illinois, School of Information Science**, Champaign, IL  
**University of Chicago, Computer Science Department**, Chicago, IL  
*“Participating and Designing around Algorithmic Sociotechnical Systems”*
- **Association of Internet Researchers (AoIR)**, Montreal, Canada 2018  
*“Kicking the Black Box: The Perils and Promise of Algorithm Auditing”*
- **Big Data Summit**, University of Illinois at Urbana-Champaign 2018  
*“Big Data Summit Data Governance”*
- **Adobe Research**, San Francisco, CA 2017  
*“Communicating Algorithmic Process in Online Behavioral Advertising”*

- **CSL Student Conference**, University of Illinois at Urbana-Champaign  
 “Exposure to the Invisible: Algorithm Awareness from the Individual to the Collective” 2015

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## SERVICE

### Program Committee

- ACM Conference on Fairness, Accountability, and Transparency (FAccT) 2022
- Human Factors in Computing Systems Conference (CHI) 2022
- International Conference on Web and Social Media (ICWSM) 2016-2019
- International ACM Web Science Conference (WebSci) 2019

### Reviewer

- Conference on Neural Information Processing Systems (NeurIPS), Ethics Reviewer 2022
- Human Factors in Computing Systems Conference (CHI) 2016-present
- Computer-Supported Cooperative Work and Social Computing Conference (CSCW) 2016-present
- International Conference on Web and Social Media (ICWSM) 2015-present
- Social Network Analysis and Mining Journal (SNAM) 2020
- Human-Computer Interaction Journal 2019
- SocInfo Conference 2019
- ACM International Management of Management of Data (SIGMOD) 2017
- Semantic Web Journal 2017
- Social Media+Society Journal 2016
- International Journal of Human-Computer Studies 2016
- Behaviour & Information Technology Journal 2015
- Elsevier Computer Communications Journal 2015
- IEEE International Conference on Social Computing (SocialCom) 2011-2012

### Student Volunteer

- CSCW SV Chair 2019
- CSCW SV 2018

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## SELECTED MEDIA COVERAGE

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- “How Facebook and Google’s Algorithms Are Affecting Our Political Viewpoints” Oct 15, 2015  
*Huffingtonpost*. Megan Anderle
- “Here’s How Facebook’s News Feed Actually Works” July 9, 2015  
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*International Business Times*. Christopher Zara
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*MIT Technology Review*. Karrie Karahalios and Sam Kerr
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*Washington Post*. Brian Fung
- “Uncovering Algorithms: Looking Inside the Facebook News Feed” Jul 22, 2014  
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