SARA KINGSLEY

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RESEARCH INTERESTS

My early PhD research focused on understanding how the design of existing technologies affected access to economic opportunities (e.g. paid work, housing, healthcare, education) for people belonging to marginalized and disadvantaged demographics. Following from this work, I am currently researching how to build automated text analysis and scoring systems and tools to automatically detect and report instances of misinformation and disinformation in advertising to job-seekers, including spam and scams. In future work, I hope to expand this research to study how to design crowdsourcing tools for disabled communities to help identify the source(s) of technology errors and failures in assistive and artificial organ devices and wearables. As part of this future work, I am interested to pursue critical studies of the design of privacy and security for assistive and artificial organ technology, and to evaluate how the computing community and developers design for quality, when designing for accessibility.

EDUCATION

PhD in HCI, School of Computer Science, Carnegie Mellon University   *Expected 2025*
Advisors: Dr. Jeffrey P. Bigham and Dr. Beibei Li
Relevant Coursework: Applied Machine Learning, Computational Sociolinguistics, and Human-AI Interaction.

Graduate Studies in Labor Studies, University of Massachusetts, Amherst   2013 - 2018
Relevant Coursework: Statistics, Applied Econometrics (audited), Econometrics, Labor Economics.

Bachelor of Arts in Social Thought & Political Economy, University of Massachusetts, Amherst   2009

SKILLS

Software Skills	Python, R, SQLite, GCS, AWS
Technical Skills	Data Engineering, Webscraping, Designing Databases
Soft Skills	Teamwork, Collaboration, Empathy, Listening
Quantitative Methods	Applied Machine Learning, Automated Text Analysis, Regression Analysis
Qualitative Methods	User Interviews, Surveys, Textual Content Analysis

PEER-REVIEWED CONFERENCE AND JOURNAL PUBLICATIONS

[P6] **Sara Kingsley, Rena Li****, Chelsea Fan, Proteeti Sinha, Jaimie Lee, Hong Shen, Motahhare Eslami and Jason Hong. Participation and Division of Labor in User-Driven Algorithm Audits: How Do Everyday Users Work together to Surface Algorithmic Harms? In the Proceedings of the Conference on Human Factors in Computing Systems (CHI'23), April 2023, Hamburg, Germany. ****Equal co-first authors.** [URL Forthcoming]

[P5] **Sara Kingsley**, Proteeti Sinha, Clara Wang, Motahhare Eslami, and Jason I. Hong. 2022. "Give Everybody [..] a Little Bit More Equity": Content Creator Perspectives and Responses to the Algorithmic Demonetization of Content Associated with Disadvantaged Groups. Proc. ACM Hum.-Comput. Interact. 6, CSCW2, Article 424 (November 2022). [Paper]

[P4] Shamika Klassen, **Sara Kingsley**, Kalyn McCall, Joy Weinberg, and Casey Fiesler. 2022. Black Lives, Green Books, and Blue Checks: Comparing the Content of the Negro Motorist Green Book to the Content on Black Twitter. Proc. ACM Hum.-Comput. Interact. 6, GROUP, Article 27 (January 2022). [Paper]

[P3] Shamika Klassen, **Sara Kingsley**, Kalyn McCall, Joy Weinberg, and Casey Fiesler. 2021. More than a Modern Day Green Book: Exploring the Online Community of Black Twitter. Proc. ACM Hum.-Comput. Interact. 5, CSCW2, Article 458 (October 2021). [Paper]

[P2] Rediet Abebe, Kehinde Aruleba, Abeba Birhane, **Sara Kingsley**, George Obaido, Sekou L. Remy, and Swathi Sadagopan. 2021. Narratives and Counternarratives on Data Sharing in Africa. In Proceedings of the 2021 ACM Conference on Fairness, Accountability, and Transparency (FAccT '21). Association for Computing Machinery, New York, NY, USA. [Paper] [Media]

[P1]**Sara Kingsley**, Mary L. Gray and Siddharth Suri. "Accounting for Market Frictions and Power Asymmetries in Online Labor Markets." Policy & Internet, 2015, 7 (4), 383-400. [Paper]

PEER-REVIEWED WORKSHOP PAPERS

[P3] **Sara Kingsley**, Clara Wang, Alexandra Mikhalenko, Proteeti Sinha and Chinmay Kulkarni. "Auditing Digital Platforms for Discrimination in Economic Opportunity Advertising." In the Proceedings of ACM Economics and Computation 4th Workshop on Mechanism Design for Social Good (MD4SG 20), June 2019: Phoenix, Arizona. [Paper] [Media]

[P2] Abhishek Gupta, Camylle Lanteigne and **Sara Kingsley**. "SECure: A Social and Environmental Certificate for AI Systems." In the Proceedings of ACM Economics and Computation 4th Workshop on Mechanism Design for Social Good (MD4SG 20), June 2019: Phoenix, Arizona. [Paper]

[P1] Sara Kingsley, Mary L. Gray and Siddharth Suri. "Monopsony and the crowd: labor for lemons?" Conference on Internet, Policy & Policy (IPP), September 2014: Oxford Internet Institute, Oxford University. [Paper]

POLICY PAPERS

[PP1] **Sara Kingsley**, Michael 'Six' Silberman, and Vanessa Barth. "Regulating digital platforms: toward transparency, accountability, and fair competition in a global digital economy." Frankfurt am Main: IG Metall, 2019, 25 pp. [Paper]

WORKING PAPERS

[WP1] **Sara Kingsley**. "A Cognitive Science perspective for learning how to design meaningful user experiences and human-centered technology." May 2020. [Paper]

INVITED TALKS & PRESENTATIONS

- **May 2022**. "Demonetization Bias Against YouTube Content Creators Who Make Videos Depicting LGBTQ Content." University of Washington, Department of Human-Centered Design & Engineering.

- **November 2021**. "Inequality and technology." Silberman School of Social Work at Hunter College, City University of New York.

- **November 2021**. "Ethics in Data Science & Web Research." Department of Computer Science, University of Vermont.

- **April 2020**. "Beyond Good Intentions: Data Sharing in and for Africa" with Abeba Birhane, Kehinde Arubela, George Obaido, Sekou Remy and Swathi Sadagopan. ICLR Practical ML for Developing Countries Workshop.

- **March 2020**. "Beyond Good Intentions: Data Practices in Africa" with Rediet Abebe, Kehinde Arubela, George Obaido, Sekou Remy and Swathi Sadagopan. Contested Data workshop, Data & Society: New York.

- **February 2020**. "Big Data, Social Media and Methods of Quantitative Intersectional Identity Analysis." Information School, University of Michigan, Ann Arbor, Michigan. Invited by Professor Tawanna Dillahunt.

- **February 2020**. "Big Data, Social Media and Methods of Quantitative Intersectional Identity Analysis." Information School, University of Michigan, Ann Arbor, Michigan.

- **November 2019**. "Homophily & Monopoly-Monopsony Power in Data and Job Markets." Bias Working Group, Mechanism Design for Social Good: www.md4sg.com.

ACADEMIC APPOINTMENTS

Research Assistant   April 2019 - Present
Carnegie Mellon University   *Pittsburgh, PA*

Summer Fellow   June 2020 - August 2020
Harvard University   *Remote*

TEACHING EXPERIENCE

User-Centered Research and Evaluation   September - December 2022
Carnegie Mellon University   *Pittsburgh, PA*

Social Data Science   September - December 2021
Carnegie Mellon University   *Pittsburgh, PA*

STUDENT RESEARCH ADVISING & MENTORING

- Jiayin Zhi, M.S. Human-Computer Interaction (CMU)

- Jaimie Lee, B.S. Computer Science (CMU)

- Rena Li, B.S. Computer Science (CMU)

- Nora Wai, B.S. Computer Science (CMU)

- Chelsea Fan, B.S. Computer Science (CMU)

- Alexandra Mikhalenko, B.S. Computer Science (CMU)

- Robert Lambeth, M.S. Human-Computer Interaction (now @Ripple)

- Proteeti Sinha, B.S. Computer Science (now @Morgan Stanley)

- Clara Wang, B.S. Artificial Intelligence (now @Instagram)

- Grace Bae, B.S. Computer Science (CMU)

- Justine Cho, B.S. Computer Science (CMU)

- Sayan Chowdry, B.S. Computer Science (CMU)

PROFESSIONAL SERVICE

- *Reviewer,* ACM Conference on Fairness, Accountability, and Transparency (FAccT): 2023

- *Reviewer,* ACM Web Science Conference (WebSci): 2023

- *Reviewer,* International AAAI Conference on Web and Social Media(ICWSM): 2021, 2022

- *Reviewer,* Annual Conference on Artificial Intelligence (AAAI): 2020, 2021

- *Accessibility Chair,* ACM Conference on Equity and Access in Algorithms, Mechanisms, and Optimization (EAAMO): 2020, 2021

- *Reviewer,* ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW): 2020, 2021

- *Reviewer,* Workshop on Mechanism Design for Social Good at the ACM Conference on Economics and Computation (EC), Phoenix, Arizona: 2020

HONORS & AWARDS

- *Finalist,* Microsoft PhD Fellowship —2020/21.

- *Summer Fellowship*, Center for Research on Computation and Society (CRCS), Harvard University John A. Paulson School of Engineering and Applied Sciences —June 2020 - August 2020.

- *Fellowship (Awarded),* Media Democracy Foundation Fellowship —2019/2020 —$70,000 (declined).

- *Awardee, U.S. Secretary of Labor Award*, U.S. Department of Labor —2011.

CONSULTING, INDUSTRY & GOVERNMENT EXPERIENCE

Consultant   Jan 2019 - June 2019
IG Metall Germany   *Remote*

Consultant   May 2018 - June 2018
United Nations University   *Remote*

Intern   January 2018 - May 2018
U.S. House of Representatives   *Northampton, MA*

Associate Researcher   June 2015 - June 2017
Microsoft Research   *Redmond, WA*

Research Intern   September 2014 - June 2015
Microsoft Research   *Redmond, WA*

Research Intern   June 2014 - September 2014
Microsoft Research   *New York, NY*

Consultant   September 2013 - May 2014
Assigned at Microsoft Research   *Remote; Redmond, WA*

Research Intern   June 2013 - August 2013
Microsoft Research   *Remote; Redmond, WA*

Legislative Officer (promoted from Legislative Assistant)   October 2009 - February 2012
U.S. Department of Labor   *Washington, D.C.*

Staff Assistant (promoted from Intern)   April 2009 - October 2009
U.S. Senate   *Washington, D.C.*

HOBBIES

Very amateur furniture building, Language learning (Spanish, Farsi, Arabic), Banagrams, Soccer / football, Train travel.