Kowe Kadoma

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Research Areas

Human-Computer Interaction, AI Ethics, Intellectual Property Law

Education

2021 – Present **Cornell University**
Ph.D., Information Science
Committee: Mor Naaman, Emma Pierson, James Grimmelman

2017 – 2021 **Florida A&M University**
B.S, Computer Engineering, *summa cum laude*

Preprints & Working Papers

2023 **The Role of Inclusion, Control, and Ownership in Workplace AI-Mediated Communication**
Kowe Kadoma, Marianne Aubin Le Quéré, Jenny Fu, Christin Munsch, Danaë Metaxa, Mor Naaman

2022 **Estimating Exposure to Information on Social Networks**
Buddhika Nettasinghe, **Kowe Kadoma**, Mor Naaman, Vikram Krishnamurthy

Poster Presentations

2022 **Estimating Exposure to Information on Social Networks**
Buddhika Nettasinghe, **Kowe Kadoma**, Mor Naaman, Vikram Krishnamurthy
Poster, *International Conference on Computational Social Science*

Research Projects

2022-present **Inclusive Approaches of Collecting Representative Speech-data Among African American English Speakers in Automated Speech Recognition and Natural Language Processing**
PI: Jay Cunningham, *University of Washington*
Conducting a scoping literature review to investigate the practices and approaches in NLP and ASR that are inclusive of AAVE speakers

2022-present **Designing Fair Algorithms**
PI: Dr. Emma Pierson, *Cornell Tech*
Developing an algorithmic fairness course and conducting a randomized control trial to understand the effect of education on developing fair algorithms.

2019 **Re-evaluating Social Support as an Inclusion Criterion for Neurotechnology Research**
PI: Dr. Sara Goering, *University of Washington*
Conducted a literature review to investigate social support as a barrier to diverse enrollment in neuroscience clinical trials, and recommended possible strategies for University of Washington's Center for Neurotechnology to implement to enroll diverse candidates in neuroscience clinical trials.

2018 **Computational Methods for Audio-based Noninvasive Blood Pressure Estimation**
PI: Dr. Zeljko Ignjatovic, *University of Rochester*
Created a physical simulation of blood flowing through the foreman, and collected heart related data with a piezoelectric sensor and oscilloscope. Applied machine learning techniques to analyze the data, and demonstrated proof of concept of a blood-pressure reading smart watch.

Industry Experience

2021 **Uber**, *Summer Legal Associate*
Developed a python script to manage the patent portfolio, amended patent claims, and made recommendations for defense strategies in a patent infringement case.

2021 **Jenner & Block**, *Pre-law Clerk*
Researched prior art, created a claim table, and investigated software technologies for patent infringement cases.

2020 **Medtronic**, *Software Engineering Intern*
Met with stakeholders to design the user interface and functionality of a device tester with read and write capabilities for the SmartSync application, and implemented the design in a domain specific language, xml, and C++.

2016 - 2017 **Schwegman, Lundberg, & Woessner**, *Intellectual Property Assistant Intern*
Docketed cases, drafted patents, investigated claim amendment, searched for patents, prepared patent applications, and responded to Office Actions from the United States Patent & Trademark Office.

Honors, Awards, & Scholarships

2023 Grace Hopper Celebration Fellow, *Cornell University*

2022 - 2023 Digital Life Initiative Fellowship, *Cornell Tech*

2021 - 2022 Graduate School Dean's Scholars, *Cornell University*

2021 - 2022 Graduate Education for Minorities (GEM) Full Fellow, *Cornell University*

2018 - 2020 Intel Electrical and Computer Engineering Scholar, *Florida A&M University*

2018 Dean's Citation for Broadening Participation in Research, *University of Rochester*

2017 - 2021 Honors Students Association, *Florida A&M University*

2017 - 2021 Distinguished Scholars Award, *Florida A&M University*

Lab Membership and Working Groups

Fall 2022-present **Cornell Tech Research Lab in Applied Law and Technology (CTRL-ALT)**, *Cornell Tech*
A group of legal scholars, computer scientists, and experts from across academia, industry, government who come together to learn from each other and to promote public understanding, thoughtful regulation, and responsible technology.

Spring 2022-present **Online Workshop on the Computational Analysis of Law**, *University of Virginia School of Law*
A global group of scholars from a variety of disciplines that focuses on early stage scholarship in computational legal studies.

Spring 2022 - present **Algorithms, Law, and Policy**, *Mechanism Design for Social Good (MD4SG)*
A multi-institutional, interdisciplinary working group that focuses on the complex relationship between algorithms, law, and policy. Topics include free speech, content moderation, antitrust, data-driven algorithms, the use of "black box" machine learning models, and decision-support tools.

Fall 2021 - present **Artificial Intelligence Policy and Practice (AIPP)**, *Cornell University*
Interdisciplinary, MacArthur Foundation-funded initiative, led by Professors Solon Barocas, Jon Kleinberg, Karen Levy, and Helen Nissenbaum. We engage with technical, sociological, and legal experts to understand and guide the future impact of AI and machine learning research and deployed systems.

Fall 2021 - present **Social Technologies Lab**, *Cornell University*
Led by Mor Namaan, we use a variety of methods, from machine learning and data science to online experiments and qualitative user interviews, to understand how we can build a trustworthy information ecosystem.

Invited Talks & Panels

2023 Career Pathways
University of Rochester

2023 Information Science Visit Days
Cornell Tech

2019 Research Experience for Undergraduate Symposium
University of Washington

2018 Kearns Research Symposium
University of Rochester

Professional memberships

2018 – Present Tau Beta Pi
General member, *Florida Eta*

Service and Leadership

2023 **Reviewer**, Fairness, Accountability, and Transparency (ACM FAccT)

2022 **Reviewer**, Journal of Computer Mediated Communication (JCMC)

2022– 2023 **President**, Information Science Graduate Student Association, *Cornell University*

2021– 2022 **Reviewer**, Information Science PhD Applicants, *Cornell University*

Technical skills

Programming languages

Proficient in: Python, C++

Familiar with: R, Ruby, MATLAB, VHDL, HTML, CSS

Software

LaTeX, Git, Google Cloud