

Danaë Metaxa

Levine Hall
3330 Walnut St.
Philadelphia, PA 19104

metaxa.net
metaxa@seas.upenn.edu
Pronouns: they/them

Όνομα, αντωνυμίες:
Δανάος, ο/του

RESEARCH AREAS

Human-Computer Interaction; Human-Centered AI; Algorithm Audits; Social Justice & Technology

APPOINTMENTS

- 2022–curr. **University of Pennsylvania**
Raj & Neera Singh Term Assistant Professor
Department of Computer & Information Science (primary)
Annenberg School for Communication (secondary)
- 2021–2022 **Stanford University**
Postdoctoral Scholar, Center for Philanthropy and Civil Society
Department of Political Science

EDUCATION

- 2015–2021 **Stanford University**
Ph.D. Computer Science
- 2015–2018 **Stanford University**
M.Sc. Computer Science
- 2011–2015 **Brown University**
B.A. Computer Science *with honors*
B.A. Science, Technology, and Society

AWARDS & HONORS

- 2020–2021 Stanford Human-Centered AI Seed Grant
- 2019 EECS Rising Stars Participant, University of Illinois at Urbana-Champaign
- 2018 Stanford McCoy Center for Ethics in Society Grad Student Fellowship
- 2017 NSF Graduate Research Fellowship (Declined)
- 2015–2020 Stanford Graduate Fellowship
- 2015 Google Anita Borg Memorial Scholarship
- 2015 Brown University Outstanding Computer Science Undergraduate Award
- 2014 CRA Outstanding Undergraduate Researcher-Runner Up
- 2014 CRA Distributed Research Experiences for Undergraduates Award
- 2013 Box Engineering Diversity Scholarship
- 2013 Brown University Undergraduate Teaching and Research Award

PUBLICATIONS

Refereed Conference Publications

- [c.11] Lam, M.S., Pandit, A., Kalicki, C.H., Gupta, R., Sahoo, P., **Metaxa, D.** (2023). “Sociotechnical Audits: Broadening the Auditing Lens to Investigate Targeted Advertising.” CSCW 2023.
- [c.10] Lam, M. S., Gordon, M. L., **Metaxa, D.**, Hancock, J. T., Landay, J. A., & Bernstein, M. S. (2022). “End-User Audits: A System Empowering Communities to Lead Large-Scale Investigations of Harmful Algorithmic Behavior.” CSCW 2022. [Available here](#).
- [c.9] **Metaxa, D.**; Gan, M.; Goh, S., Hancock, J.; Landay, J.A. “An Image of Society: Gender and Racial Representation and Impact in Image Search Results for Occupations.” CSCW 2021. [Available here](#).
- [c.8] Xiao, S.; **Metaxa, D.**; Park, J.S.; Karahalios, K., Salehi, N. “Random, Messy, Funny Raw: Finstas as Intimate Reconfigurations of Social Media.” CHI 2020. [Available here](#) **Honorable mention award**.
- [c.7] **Metaxa, D.**; Park, J.S.; Landay, J.A.; Hancock, J. “Search Media and Elections: A Longitudinal Investigation of Political Search Results in the 2018 U.S. Elections.” CSCW 2019. [Available here](#).
- [c.6] **Metaxa, D.**; Maas, P; Aldrich, D. “How Social Ties Influence Hurricane Evacuation Behavior.” CSCW 2018. [Available here](#).
- [c.5] Che, X.; **Metaxa, D.**; Hancock, J. “Fake News in the News: An Analysis of Partisan Coverage of the Fake News Phenomenon.” CSCW 2018. [Available here](#).
- [c.4] **Metaxa, D.**; Wang, K.; Landay, J.A.; Hancock, J. “Gender-Inclusive Design: Stereotypes and Biases in Web Interfaces.” CHI 2018. [Available here](#).
- [c.3] Daskalova, N.; **Metaxa, D.**; Tran, A.; Nugent, N.; Boergers, J.; McGeary, J.; Huang, J. “Sleep-Coacher: A Personalized Automated Self-Experimentation System for Sleep Recommendations.” UIST 2016. [Available here](#).
- [c.2] **Metaxa, D.**; Rusak, G.; Teevan, J.; and Bernstein, M. “The Web is Flat: The Inflation of Uncommon Experiences Online.” CHI 2016. [Available here](#). **Best short paper award**.
- [c.1] Papoutsaki, A.; Guo, H.; **Metaxa, D.**; Gramazio, C.; Rasley, J.; Xie, W.; and Huang, J. “Crowd-sourcing from Scratch: A Pragmatic Experiment in Data Collection by Novice Requesters.” HCOMP 2015. [Available here](#). **Best paper runner-up**.

Books

- [b.1] **Metaxa, D.**, et al. (2022) Auditing Algorithms: Understanding Algorithmic Systems from the Outside In, Foundations and Trends in Human-Computer Interaction 14 (4)

Book Chapters

- [bc.1] **Metaxa, D.**, Raji, D. “A Tale of Two Audits: Investigating the Politics of Algorithm Audit Evaluations” in AI // Assembly edited by Bernholz, L. (in progress)

White Papers

- [w.3] Garton Ash, T.; Gorwa, R.; **Metaxa, D.**, [Glasnost! Nine ways Facebook can make itself a better forum for free speech and democracy](#). 2019. Reuters Institute for the Study of Journalism.

- [w.2] Sheuerman, M. K. et al. [HCI Guidelines for Gender Equity and Inclusivity](#). 2019.
- [w.1] **Metaxa, D.**; Torres-Echeverry, N. [Google's Role in Spreading Fake News and Misinformation](#). SSRN. 2017.
Popular Press
- [p.3] Gorwa, R.; **Metaxa, D.** [Here's how Mark Zuckerberg can save Facebook from itself](#). *Wired UK*. March 4, 2019
- [p.2] Hancock, J.; **Metaxa, D.** Park, J. S. [Are Google search results politically biased?](#) *The Guardian*. September 6, 2018.
- [p.1] Aldrich, D. P.; **Metaxa, D.** [How your social network could save you from a disaster](#). *The Conversation*. July 16, 2018.

TEACHING

- Spring 2023 CIS700: Algorithmic Justice (Penn, graduate-level)
- Fall 2022 CIS399: Introduction to Human-Computer Interaction (Penn, undergraduate-level)
- Spring 2021 CS347: Human-Computer Interaction Research (Stanford, co-taught with Parastoo Abtahi)
- Winter 2017, 2018 CS181: Computers, Ethics, and Public Policy (Stanford, Graduate TA)
- Spring 2014, 2015 CS8: A First Byte of Computer Science (Brown University, Head TA)
- Fall 2014 CS130: User Interface Design and Evaluation (Brown University, TA)
- Fall 2013 CS111: Introduction to Computer Science (Smith College, TA)
- Fall 2012 CS17: Introduction to Computer Science (Brown University, TA)

INVITED TALKS

- 2022 **University of Pennsylvania** | Penn SEAS Board of Advisors Spring Meeting. "Auditing Algorithms and Sociotechnical Systems" **Simon Fraser University** | Mellon-Digital Democracies Institute - Experimental Algorithmic Futures Working Group. "In(advert)ent: Sociotechnical Audits and Targeted Advertising."
- 2021 **University of Pennsylvania** | Annenberg Conversations on Gender. "From Algorithm Audits to Accountability" [Link](#).
Virginia Commonwealth University | Camp Qmunity Mobile Data Management Conference | Diversity and Inclusion Session.
Cornell University | Graduate Students for Gender Inclusion in Computing Group. "Bias and Representation in Sociotechnical Systems."
Carnegie Mellon University | Human-Computer Interaction Institute. "Bias and Representation in Sociotechnical Systems."
University of Pennsylvania | Computer and Information Science Department. "Bias and Representation in Sociotechnical Systems."
University of Texas at Austin | School of Journalism and Media. "Bias and Representation in Sociotechnical Systems."
Johns Hopkins University | Computer Science Department. "Bias and Representation in Sociotechnical Systems."

- University of Washington** | Information School. “Bias and Representation in Sociotechnical Systems.”
- Simon Fraser University** | Computer Science Department. “Bias and Representation in Sociotechnical Systems.”
- 2019 **University of Illinois at Urbana-Champaign** | CS598RK: Human-Computer Interaction for Machine Learning. “Inclusive Design from the Lab to the Classroom.”
- Stanford University** | CS247i: Design for Understanding. “Inclusive Web Design.”
- Stanford University** | Democracy & Internet Scholars Workshop. “Search Media and Elections: Investigating Partisanship in Political Search Results.”
- 2018 **Stanford Law School** | Project on Democracy and Internet Seminar Series. “Algorithm Audits and Political Bias in Web Search.”
- 2016 **Wellesley College** | Computer Science Department. “Thinking About Graduate School”
- Smith College** | Computer Science Department. “Thinking About Graduate School”

PROFESSIONAL SERVICE

Editorial Boards

Journal of Online Trust and Safety, 2020-current

Conference Reviewing

FAccT '23 (AC), CSCW '22, FAccT '22 (AC), CSCW '21, FAccT '20, CSCW '20, CHI '20, ICWSM '20, CSCW '19, CHI '18, ICWSM '18

Committee Leadership

- 2019-2021 CSCW Conference Steering Committee | Graduate student member
- 2017-2018 ICWSM Conference | Web Chair

University service

- 2015–2020 Stanford CS PhD Social Committee | Founder and Chair
- 2015–2016 Stanford CS PhD Liaison to the Faculty | Liaison
- 2020–2021 Stanford HCI Qualifying Exam Equity & Justice Update | Lead volunteer
- 2020–2021 Stanford CS PhD Applicant Student Support Program, Volunteer
- 2020–2021 Stanford Out in STEM | Mentor
- 2020–2021 Underrepresented in Stanford Computer Science program | Mentor
- 2017–2019 Stanford Enhancing Diversity in Graduate Education (EDGE) | Mentor

Other Service

- 2017–2018 Stanford Alpine Club | President
- 2015–2016 Stanford Hellenic Student Association | Board Member

ADVISING

Current Doctoral Students

- Ekatarina Fedorova, start 2023 (Penn)
- Stephanie Wang, start 2022 (Penn)
- Princess Sampson, start 2022 (Penn)
- Ro Encarnacion, start 2022 (Penn)

Current Undergraduate Students

Lena Armstrong, honors thesis (Penn)

PREVIOUS STUDENT ADVISING

Doctoral

Michelle Lam, 2021-2023 (Stanford)

Undergraduate

Melanie Zhou, Stanford freshman (2021-2022)

Keitany Alison Jelagat, Stanford freshman (2021-2022)

Alison Kim, Swarthmore junior (2021-2022)

Janine Fleming, undergraduate at Stanford (2020-2021)

Hannah Kim, undergraduate at Stanford (2020-2021)

Ayush Pandit, Stanford undergraduate (2019-2022)

Colin Kalicki, Stanford undergraduate (2019-2022)

Su Goh, McGill senior (2019-2021)

Michelle Gan, Stanford undergraduate (2019-2021)

Justin Tinker, Stanford undergraduate (2019-2021)

Aayush Agrawal, Stanford sophomore (2019-2020)

Joon S. Park, Swarthmore senior (2018-2020)

Bec Smith, Stanford junior (2018-2019)

Michelle Park, Stanford senior (2018-2019)

Kelly Wang, Brown junior (2017-2018)

Xunru Rainy Chen, Northwestern junior (2017-2018)

Mo Tiwari (2016-2017)

Jared Bitz, Stanford freshman (2016-2017)

Gili Rusak (2014-2015)

INDUSTRY EXPERIENCE

Fall 2017 Intern, Core Data Science Team, Facebook

Summer 2015 Intern, MetaMind

April 6, 2023