

Danaë Metaxa

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Research interests

Algorithmically-mediated content; algorithm audits; bias and discrimination; computational social science; fairness, accountability, and transparency in technology; social computing.

Education

Stanford University / Ph.D. Candidate in Computer Science

SEPT 2015 - CURRENT, GPA 4.0/4.0

Advisors: James Landay (Computer Science), Jeff Hancock (Communication)

M.Sc. in Computer Science, 2018

Brown University / B.A. in Computer Science *with Honors*,

B.A. in Science, Technology, and Society

SEPT 2011 - MAY 2015, GPA 3.9/4.0

Smith College / Visiting student

SEPT 2013 - DEC 2013, GPA 4.0/4.0

Awards & honors

Predctoral Scholar, Stanford Project on Democracy and the Internet (2019-20)

EECS Rising Stars Participant, University of Illinois at Urbana-Champaign (2019)

Stanford McCoy Center for Ethics in Society Grad Student Fellowship (2018)

NSF Graduate Research Fellowship (2017, DECLINED)

NSF Graduate Research Fellowship - Honorable Mention (2016)

Stanford Graduate Fellowship (2015-2020)

Google Anita Borg Memorial Scholarship (2015)

Brown University Outstanding Computer Science Undergraduate Award (2015)

CRA Outstanding Undergraduate Researcher - Runner Up (2014)

CRA Distributed Research Experiences for Undergraduates Award (2014)

Box Engineering Diversity Scholarship (2013)

Brown University Undergraduate Teaching and Research Award (2013)

Selected in progress

Metaxa, D.; Park, J.S.; Robertson, R.E.; Hancock, J.; Wilson, C.; Karahalios, K. "Algorithm Audits: Past, Present, and Best Practices." *In submission to Foundations & Trends in HCI*.

Metaxa, D.; Park, J.S.; Hancock, J.; Landay, J.A. "Context Sensitivities of the Search Engine Manipulation Effect." *In preparation*.

Publications

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." *Accepted to CSCW 2021; in final preparation*.

Xiao, S.; **Metaxa, D.;** Park, J.S.; Salehi, N. "Random, Messy, Funny Raw: Fintast as Intimate Reconfigurations of Social Media." CHI 2020.

<https://dl.acm.org/doi/fullHtml/10.1145/3313831.3376424> **Honorable mention award.**

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. <https://dl.acm.org/doi/abs/10.1145/3359231>

Metaxa, D.; Maas, P.; Aldrich, D. "How Social Ties Influence Hurricane Evacuation Behavior." CSCW 2018. <https://dl.acm.org/citation.cfm?id=3274391>

Che, X.; **Metaxa, D.;** Hancock, J. "Fake News in the News: An Analysis of Partisan Coverage of the Fake News Phenomenon." CSCW 2018. <https://dl.acm.org/citation.cfm?id=3274079>

Metaxa, D.; Wang, K.; Landay, J.A.; Hancock, J. "Gender-Inclusive Design: Stereotypes and Biases in Web Interfaces." CHI 2018. <https://dl.acm.org/citation.cfm?id=3173574.3174188>

Daskalova, N.; **Metaxa, D.;** Tran, A.; Nugent, N.; Boergers, J.; McGeary, J.; Huang, J. "SleepCoach: A Personalized Automated Self-Experimentation System for Sleep Recommendations." UIST 2016. <https://dl.acm.org/citation.cfm?id=2984534>

Metaxa, D.; Rusak, G.; Teevan, J.; and Bernstein, M. "The Web is Flat: The Inflation of Uncommon Experiences Online." CHI 2016. <https://dl.acm.org/citation.cfm?id=2892424> **Best short paper award.**

Papoutsaki, A.; Guo, H.; **Metaxa, D.;** Gramazio, C.; Rasley, J.; Xie, W.; and Huang, J. "Crowdsourcing from Scratch: A Pragmatic Experiment in Data Collection by Novice Requesters." HCOMP 2015. <https://www.aaai.org/ocs/index.php/HCOMP/HCOMP15/paper/view/11582> **Best paper runner-up.**

White papers

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.

Sheuerman, M. K. et al. [HCI Guidelines for Gender Equity and Inclusivity](#). 2019.

Metaxa, D.; Torres-Echeverry, N. [Google's Role in Spreading Fake News and Misinformation](#). SSRN. 2017.

Popular press

Gorwa, R.; **Metaxa, D.** [Here's how Mark Zuckerberg can save Facebook from itself](#). *Wired UK*. March 4, 2019

Hancock, J.; **Metaxa, D.**; Park, J. S. [Are Google search results politically biased?](#) *The Guardian*. September 6, 2018.

Aldrich, D. P.; **Metaxa, D.** [How your social network could save you from a disaster](#). *The Conversation*. July 16, 2018.

Invited talks

University of Illinois at Urbana-Champaign / CS598RK: Human-Computer Interaction for Machine Learning. "Inclusive Design from the Lab to the Classroom." (October 31, 2019)

Stanford University / CS247i: Design for Understanding. "Inclusive Web Design." (October 22, 2019)

Stanford University / Democracy & Internet Scholars Workshop. "Search Media and Elections: Investigating Partisanship in Political Search Results. (February 22, 2019)

Stanford Law School / Project on Democracy and Internet Seminar Series. "Algorithm Audits and Political Bias in Web Search." (November 29, 2018)

Wellesley College / Computer Science Department. "So you're thinking about graduate school..." (November 17, 2016)

Smith College / Computer Science Department. "So you're thinking about graduate school..." (November 18, 2016)

Research experience

Brown University / Professor Jeff Huang, Computer Science
SEPT 2014 -MAY 2015

Undergraduate honors thesis research assistant; resulted in UIST publication (Daskalova et al., 2016).

Stanford University / Professor Michael Bernstein, Computer Science
MAY - AUG 2014

Center for the Study of Language and Information (CSLI) intern; resulted in CHI publication (Metaxa et al., 2016).

Brown University / Professor Jeff Huang, Computer Science
JAN - MAY 2014

Research assistant; resulted in HCOMP paper (Papoutsaki et al., 2015).

Brown University / Professor Wendy Hui Kyong Chun, Department of Modern Culture and Media
MAY - AUG 2013

Harvard University / Berkman-Klein Center for Internet and Society
MAY - AUG 2012

Youth and Media Lab intern.

Teaching experience

Stanford University / CS181: Computers, Ethics & Public Policy, TA
WINTER 2016-17, WINTER 2017-18

Two-time teaching assistant and guest lecturer for the Computer Science program's required ethics course.

Brown University / CS8: A First Byte of Computer Science, Head TA
SPRING 2013-14, SPRING 2014-15

Founded a new Computer Science course for non-majors, taught by Professor Michael Littman. Designed course materials, hired and managed course staff of 12 TAs.

Brown University / CS130: User Interface Design and Evaluation, TA
FALL 2014-15

Smith College / CS111: Introduction to Computer Science, TA
FALL 2013-14

Brown University / CS17: Introduction to Computer Science, TA
FALL 2012-13

Industry internships

Facebook, Inc. / Core Data Science Team Intern
SEPT - DEC 2017

Worked on Disaster Maps during hurricane season, mentored by Alex Dow and Paige Maas; resulted in CSCW paper (Metaxa et al., 2018).

Metamind / Software Engineering Intern
JUNE - AUG 2015

Committee service

CSCW Conference Steering Committee / Graduate student member
SEPT 2019 - CURRENT

Broad Faculty Area Search Committee / Stanford Computer Science
2018-19, 2019-20

ICWSM conference / Web Chair
JUNE 2017 - JAN 2018

Graduate Admissions Committee / Stanford Computer Science
2016-17, 2017-18

PhD Social Committee / Founder and Chair
SEPT 2015 - SEPT 2020

PhD Liaison to the Faculty / Stanford Computer Science
SEPT 2015 - JUNE 16

Reviewing

Conferences / FAcct '20, CSCW '20, CHI '20, ICWSM '20, CSCW '19, CHI '18, ICWSM '18

Journals / *Information, Communication, and Society*

Mentoring

2020 - CURRENT

Janine Fleming, current junior at Stanford University

2019 - CURRENT

Ayush Pandit, current junior at Stanford University

Colin Kalicki, current junior at Stanford University

Su Goh, current senior at McGill University

2019-20

Aayush Agrawal, then-sophomore at Stanford University

Justin Tinker, then-sophomore at Stanford University

Michelle Gan, then-sophomore at Stanford University

2018-19

Joon S. Park, then recently graduated from Swarthmore College / current PhD student at Stanford University

Bec Smith, then junior at Stanford University

Michelle Park, then senior at Stanford

2017-18

Kelly Wang, then junior at Brown University

Xunru Rainy Chen, then junior at Northwestern University

2016-17

Mo Tiwari, then engineer at Facebook / current PhD student at Stanford

Jared Bitz, then first-year undergraduate at Stanford University

2014-15

Gili Rusak, then high schooler / now Master's student at Stanford University

Other service

Head volunteer, **HCI Qualifying Exam Equity & Justice Update** (2020-21)

Volunteer, **Stanford CS PhD Applicant Student Support Program** (2020-21)

Mentor, **Stanford Out in STEM** (2020-21)

Mentor, **Underrepresented in Stanford Computer Science program** (2020-21)

Mentor, **Stanford Enhancing Diversity in Graduate Education (EDGE)**
(2017-19)

President, **Stanford Alpine Club** (2017-18)

Board Member, **Stanford Hellenic Student Association** (2015-16)

Mentor, **Women in Computer Science at Brown University** (2012-15)

Board Member, **Hellenic Student Association at Brown University** (2011-13)

References

James Landay
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Jeff Hancock
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Stanford University
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Karrie Karahalios
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Associate Professor of Computer Science Department
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Nathaniel Persily
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