# Alicia DeVrio

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# **Research Interests**

FATE in Al Systems, shifting power to everyday users of algorithmic systems, reducing algorithmic harm, critical algorithm studies, linguistic discrimination

# **Education**

Human-Computer Interaction PhD, Carnegie Mellon University, Pittsburgh, PA

2020-Present

Advisor: Ken Holstein

Computer Science AB, Brown University, Providence, RI

2014-2018

Completed significant additional writing coursework

Rhode Island School of Design, Providence, RI

2017

Studied typography through cross registration

# **Academic Publications**

#### **Refereed Conference & Journal Publications**

- C4 Alicia DeVrio, Motahhare Eslami, Kenneth Holstein. [On public responses to algorithmic harm]. Under Review, 2023.
- Wesley Hanwen Deng, Boyuan Guo, **Alicia DeVrio**, Hong Shen, Motahhare Eslami, Kenneth Holstein. *Understanding Practices, Challenges, and Opportunities for User-Driven Algorithm Auditing in Industry Practice*. To appear in Proceedings of the ACM CHI Conference on Human Factors in Computing Systems. (CHI), 2023. Preprint: https://arxiv.org/abs/2210.03709

  Last name changed from DeVos to DeVrio in 2022
- Alicia DeVos, Aditi Dhabalia, Hong Shen, Kenneth Holstein, Motahhare Eslami. *Toward User-Driven Algorithm Auditing:*Investigating users' strategies for uncovering harmful algorithmic behavior. Proceedings of the ACM CHI Conference on Human Factors in Computing Systems. (CHI), 2022.
- C1 Hong Shen\*, **Alicia DeVos**\*, Motahhare Eslami, Kenneth Holstein. *Everyday Algorithm Auditing: Understanding the power of everyday users in surfacing harmful algorithmic behaviors*. Proceedings of the ACM on Human-Computer Interaction. (CSCW2), 2021.
  - \* indicates co-first authorship: these authors contributed equally to the work

#### **Poster Publications**

Alicia DeVos, Aditi Dhabalia, Hong Shen, Kenneth Holstein, Motahhare Eslami. *Toward User-Driven Algorithm Auditing:*Investigating users' strategies for uncovering harmful algorithmic behavior. Duquesne University Tech Ethics Symposium. 2022.

Best Graduate Student Poster Award

# **Professional Experience**

Growth Product Manager, Noom, New York, NY	2019–2020
Led experimentation efforts on the sign-up survey flow at noom.com	
Optimization Associate, Dow Jones, New York, NY Led product optimization efforts for wsj.com & barrons.com via A/B & multivariate testing	2018–2019
Digital Media Coordinator, Brown University Curricular Resource Center for Peer Advising, Providence, RI Created weekly e-newsletter & new style guide, held 8–10 open hours weekly drop-in advising	2017–2018

#### Communications Intern, City of Johnson City, Johnson City, TN

Summer 2018

Provided design suggestions for new city website, drafted first team style guide, wrote press releases

Optimization Intern, Dow Jones, New York, NY

Summer 2017

Created, developed, and launched A/B and multivariate tests on WSJ Android and Barron's iOS apps

### **Intern Team Competition Winner**

Information Security Intern, Akamai Technologies, Cambridge, MA Interviewed 20+ employees to pinpoint issues with product development process & create new guidelines	Summer 2016
Honors & Awards	
Best Graduate Student Poster Award, Duquesne University Tech Ethics Symposium, Pittsburgh, PA Poster presenting work on users' strategies for uncovering harmful algorithmic behavior	2022
Spotlight Presenter, Dow Jones, New York, NY Spoke on the optimization team's A/B and multivariate testing process and findings on the membership lifecycle (an opportunity typically only given to managers and other senior leaders)	2019
3rd Place Prizewinner, The John Russell Bartlett Society's Stillwell Prize, Providence, RI Presented book collection exploring writing and grammar style and usage over time and across media and source	2018
Intern Group Project Competition Winner, Dow Jones, New York, NY Designed and branded WSJ concept website aimed at driving student activations	2017
Finalist and Prizewinner, Library Innovation Prize, Providence, RI Developed an interactive scavenger hunt puzzle game using the Brown University Library's space and collections	2016
4th Place Prizewinner, Hartshorn-Hypatia Mathematics Prize Examination, Providence, RI	2014
Finalist and Scholarship Winner, National Merit Scholarship Program	2014
Moody's Mega Math Challenge Triage Survivors, Moody's Foundation and SIAM	2013, 2014
Teaching & Advising	
Mentor, Brown University Women's Launch Pad, Remote	2022
Mentor, Carnegie Mellon University Al Mentoring Program, Pittsburgh, PA	2020-Present
UI/UX Course Teaching Assistant, Brown University Computer Science Department, Providence, RI	2016
First-Year Advisor, Brown University Meiklejohn Peer Advising Program, Providence, RI	2016–2017
Swearer Tutoring and Enrichment in Math and Sciences Tutor, The Swearer Center, Providence, RI	2016
Classroom Assistant, Vartan Gregorian Elementary School, Providence, RI	2015
Summer Studies Residential Counselor, Duke Talent Identification Program, Durham, NC	2015
Summers Past History Camp Counselor, Tipton-Haynes Historic Site, Johnson City, TN	2009–2013
Students Mentored  Boyuan (Bill) Guo, undergraduate student Aditi Dhabalia, master's student Erica Chiang, undergraduate student Justin Zhang, undergraduate student	2021–2022 2020–2021 2020 2020
Invited Talks & Panels	
Guest Speaker, Brown University HCI Research Group, Providence, RI	2023
Guest Speaker, Memphis Chapter of STEM4fem, Remote	2022
Guest Speaker, Computer Science Class, Stevenson School, Remote	2021

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Career Panelist, Brown University Department of Computer Science Industry Partners Program, Remote Spoke on early career trajectory and relevant preparation in college	2020
Roundtable Presenter, Theories in Action Research Showcase, Providence, RI Spoke on the importance of inclusivity and author transparency in grammar and style guides	2018
Guest Speaker - In-Depth Reporting, East Tennessee State University, Johnson City, TN	2018
Service	
Paper Reviewer for CSCW Conference	2023
Paper Reviewer for DIS Conference	2023
Student Representative, Carnegie Mellon HCII Faculty Meeting, Pittsburgh, PA	2022, 2021
Student Volunteer, Carnegie Mellon Graduate Application Support Program, Remote	2022, 2021, 2020
Paper Reviewer for CHI Conference	2021-Present
Panelist & Student Volunteer, Carnegie Mellon HCII Preview Event, Remote	2021
Student Volunteer, CHI Conference	2023, 2022, 2021
Head Coach, Winchester-Thurston Middle School Track Team, Pittsburgh, PA	2021
Student Volunteer, FAccT Conference, Remote	2021
Student Admissions Reviewer, Carnegie Mellon HCII REU Summer Program, Remote	2022, 2021
Panelist & Student Volunteer, Building Anti-Racist Futures @ CMU HCII Virtual Recruitment Event, Remote	2020
Student Volunteer, CSCW Conference, Remote	2020

# **Interests**

Grammar, Piano, Running, Boggle, Painting, Baking, Musicals, Typography



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