Emily Wall, Ph.D.

My research involves decision making using data visualizations and visual analytics. I develop computational strategies to characterize human limitations in decision making (e.g., cognitive bias) and design interventions to promote reflective data analysis and decision making processes. I am an Assistant Professor in the Computer Science Department at Emory University. I completed my Ph.D. in Computer Science at Georgia Tech in 2020 and was a postdoctoral researcher at Northwestern University 2020-2021.

✉ emily.wall@emory.edu

🐦 @profembwall

🎓 Google Scholar

in LinkedIn

📍 Math & Science Center W302E

🌐 https://emilywall.prof

📄 PDF of CV (last updated: 2024-04-04)

Appointments

2021-	**Assistant Professor**
	Department of Computer Science (Affiliate) Center for Data Science Emory University
2020-2021	**Postdoctoral Researcher**
	Department of Computer Science Northwestern University

Education

2020	**Ph.D. in Computer Science**
	Georgia Institute of Technology
	Thesis: Detecting and Mitigating Human Bias in Visual Analytics
	Committee: Alex Endert, John Stasko, Polo Chau, Brian Fisher, Wenwen Dou
2015	**B.S. in Computer Science & Mathematics**
	University of Georgia
	summa cum laude

Honors & Awards

2023	**Arts and Social Justice**, Fellow
2020	**VGTC Best Dissertation**, Honorable Mention
2019	**GVU Foley Scholar**, Recipient, Georgia Institute of Technology
2019	**D.E. Shaw Exploration Fellowship**, Recipient
2019-2020	**Siemens FutureMaker Fellowship**, Recipient
2018	**GVU Foley Scholar**, Finalist, Georgia Institute of Technology
2017	**Graduate Student Symposium**, Participant, AT&T Labs
2017	**Doctoral Colloquium**, Participant, IEEE VIS
2017-2020	**Graduate Fellowship for STEM Diversity (GFSD)**, Recipient
2017	**NSF Graduate Research Fellowship Program**, Honorable Mention
2017	**Department of Defense SMART Fellowship**, Recipient (Declined)
2015-2019	**President's Fellowship**, Recipient, Georgia Institute of Technology

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Publications

Journal Articles

Belief Decay or Persistence? A Mixed-Method Study on Belief Movement Over Time
S. Gupta, A. Karduni, and *E. Wall*
Computer Graphics Forum (Proc. EuroVis'23), 2023.
📄 PDF | 🎞 Talk | ⏭ Video FF

A Qualitative Interview Study of Distributed Tracing Visualisation: A Characterisation of Challenges and Opportunities
T. Davidson, *E. Wall*, and J. Mace
IEEE Transactions on Visualization and Computer Graphics (Proc. VIS'23), 2023.
📄 PDF

🏆 **(Best Paper, runner up)** VisHiker's Guide to Evaluation: Competing Considerations in Study Design
E. Wall, C. Xiong, and Y-S. Kim
IEEE Computer Graphics and Applications, 2022.
📄 PDF

VIBE: A Design Space for VIsual Belief Elicitation in Data Journalism

S. Mahajan, B. Chen, A. Karduni, Y-S. Kim, and *E. Wall*

Computer Graphics Forum (Proc. EuroVis'22), 2022.

📄 PDF | 📥 Slides

Left, Right, and Gender: Exploring Interaction Traces to Mitigate Human Biases

E. Wall, A. Narechania, A. Coscia, J. Paden, and A. Endert

IEEE Transactions on Visualization and Computer Graphics (Proc. VIS'21), 2021.

📄 PDF | 🎞 Talk | ▶ Video | ⏭ Video FF

Lumos: Increasing Awareness of Analytic Behavior during Visual Data Analysis

A. Narechania, A. Coscia, *E. Wall*, and A. Endert

IEEE Transactions on Visualization and Computer Graphics (Proc. VIS'21), 2021.

📄 PDF | ❮❯ System & Code | 🎞 Talk | ▶ Video | ⏭ Video FF

VitaLITy: Promoting Serendipitous Discovery of Academic Literature with Transformers & Visual Analytics

A. Narechania, A. Karduni, R. Wesslen, and *E. Wall*

IEEE Transactions on Visualization and Computer Graphics (Proc. VIS'21), 2021.

📄 PDF | ❮❯ System & Code | 🎞 Talk | ▶ Video | ⏭ Video FF

A Heuristic Approach to Value-Driven Evaluation of Visualizations

E. Wall, M. Agnihotri, L. Matzen, K. Divis, M. Haass, A. Endert, and J. Stasko

IEEE Transactions on Visualization and Computer Graphics (Proc. InfoVis'18), 2019.

📄 PDF | 🎞 Talk | 🌐 Website | ⏭ Video FF

Podium: Ranking Data Using Mixed-Initiative Visual Analytics

E. Wall, S. Das, R. Chawla, B. Kalidindi, E. Brown, and A. Endert

IEEE Transactions on Visualization and Computer Graphics (Proc. VAST'17), 2018.

📄 PDF | 🎞 Talk | ▶ Video | ⏭ Video FF | 🖥 Demo

AxiSketcher: Interactive Nonlinear Axis Mapping of Visualizations through User Drawings

B.C. Kwon, H. Kim, *E. Wall*, J. Choo, H. Park, and A. Endert

IEEE Transactions on Visualization and Computer Graphics (Proc. VAST'16), 2017.

📄 PDF | ▶ Video

Conference Proceedings

Trust Junk and Evil Knobs: Calibrating Trust in AI Visualization

E. Wall, L. Matzen, M. El-Assady, P. Masters, H. Hosseinpour, A. Endert, R. Borgo, P. Chau, A. Perer, H. Schupp, H. Strobelt, and L. Padilla

IEEE Pacific Visualization Conference, 2024.

📄 PDF

Let's Get Vysical: Perceptual Accuracy in Visual & Tactile Encodings

Z. Xu, K. Williams, and *E. Wall*

IEEE Information Visualization (VIS) Short Papers, 2023.

📄 PDF | 📁 Supplemental | ▦ Talk | ⏭ Video FF

Toward a Design Space for Mitigating Cognitive Bias in Vis

E. Wall, J. Stasko, and A. Endert

IEEE Information Visualization (VIS) Short Papers, 2019.

📄 PDF | 📁 Supplemental | ▦ Talk | ⏭ Video FF

A Markov Model of Users' Interactive Behavior in Scatterplots

E. Wall, A. Arcalgud, K. Gupta, and A. Jo

IEEE Information Visualization (VIS) Short Papers, 2019.

📄 PDF | ▦ Talk | ⏭ Video FF

A Formative Study of Interactive Bias Metrics in Visual Analytics Using Anchoring Bias

E. Wall, L. Blaha, C. Paul, and A. Endert

Proceedings of the 17th IFIP TC 13 International Conference on Human-Computer Interaction (INTERACT'19), 2019.

📄 PDF | ▶ Video

Using Expert Patterns in Assisted Interactive Machine Learning: A Study in Machine Teaching

E. Wall, S. Ghorashi, and G. Ramos

Proceedings of the 17th IFIP TC 13 International Conference on Human-Computer Interaction (INTERACT'19), 2019.

📄 PDF | ▶ Video

Warning, Bias May Occur: A Proposed Approach to Detecting Cognitive Bias in Interactive Visual Analytics

E. Wall, L. Blaha, L. Franklin, and A. Endert

IEEE Visual Analytics Science and Technology (VAST), 2017.

📄 PDF | ▦ Talk | ▶ Video | ⏭ Video FF

Supporting Team-First Visual Analytics through Group Activity Representations

S.K. Badam, Z. Zeng, *E. Wall*, A. Endert, and N. Elmqvist

Graphics Interface, 2017.

📄 PDF | ▶ Video

Refereed Workshop Papers

Visual Salience to Mitigate Gender Bias in Recommendation Letters

Y. Da, M. Chen, B. Altschuler, Y. Bu, and *E. Wall*

Workshop on Visualization for Social Good (VIS4Good, at VIS'23), 2023.

📄 PDF | 📁 Supplemental | 🎞 Talk

Perception of Skill in Visual Problem Solving: An Analysis of Interactive Behaviors, Personality Traits, and the Dunning-Kruger Effect

M. Chen and *E. Wall*

Workshop on TRust and EXpertise in Visual Analytics (TREX, at VIS'22), 2022.

📄 PDF

COVID-19 Health Equity Dashboard - Addressing Vulnerable Populations

S. Liu, *E. Wall*, S. Patel, and Y. Park

Visualization for Communication (VisComm, at VIS'20), 2020.

📄 PDF

Four Perspectives on Human Bias in Visual Analytics

E. Wall, L. Blaha, C. Paul, K. Cook, and A. Endert

DECISIVe: Workshop on Dealing with Cognitive Biases in Visualizations (at InfoVis'17), 2017.

📄 PDF

Book Chapters

Four Perspectives on Human Bias in Visual Analytics

E. Wall, L. Blaha, C. Paul, K. Cook, and A. Endert

Cognitive Biases in Visualizations, Ed. G. Ellis, Springer, 2018, Chapter 3, pp. 29-42.

📖 Book | 🔖 Chapter

Theses

Detecting and Mitigating Human Bias in Visual Analytics

Emily Wall

Georgia Tech, School of Interactive Computing Ph.D. Thesis. April 2020.

📄 PDF

Grants & Funding

Research

Role: PI

Funded: $643,965 (Emory)

2023-2027   **Advancing Visualization Decision Support through Mitigating Confirmation Bias**

NSF IIS-HCC

Role: PI

Co-PI: Dr. Cindy Xiong

Funded: $683,097 (Emory) / $1,198,084 (total)

2023-2026   **Toward Interventions For Equitable University Admissions With Visual Analytics**

Emory Office of Provost: Racial Justice/Racial Equity

Role: PI

Co-PI: Dr. Wesley Longhofer Funded: $148,850

2023-2024   **Developing Behavior Change Interventions for Responsible Data Science**

Emory University Research Committee

Role: PI

Funded: $30,000

2023-2024   **Developing an Immersive Cognitive Task for Expanding the Assessment of Memory in Pediatrics**

Pediatric Research Alliance Pilot Grant

Role: Co-I

Co-PIs: Dr. Daniel Drane, Dr. Ammar Kheder, Noah Okada, Dr. Joshua Chern, and Dr. Donald Bearden

Funded: $50,000

2022-2023   **A Novel Web-based Decision Aid Tool for Reducing COVID-19 Vaccine Hesitancy**

HealthCare Innovation Seed Grant

Role: Co-I

Co-PIs: Dr. Ambar Kulshreshtha, Dr. Shivani Patel, Dr. Piyush Kumar

Funded: $24,995

Other

2023 Spring   **Scholarly Writing And Publishing (SWAP) Fund Award**

Emory University

Funded: $2,250

Purpose: hire editor to assist with NSF CAREER proposal writing

2023 Spring   **Pedagogy Mini Grant**

Human-Computer Interaction (CS 485/584), Emory University

Funded: $350

Purpose: purchase Google cardboard for a virtual reality design module

2022 Fall   **Pedagogy Mini Grant**

Information Visualization (CS 485/584), Emory University

Funded: $350

Purpose: fund user study incentives for course projects that are pursuing publication

Teaching

Instructor

Spring 2024	**Human-Computer Interaction (CS 485 / 584)** (29 students) Emory University
Fall 2023	**Information Visualization (CS 441 / 541)** (36 students) Part of the Arts & Social Justice Program Emory University
Spring 2023	**Human-Computer Interaction (CS 485 / 584)** (34 students) Emory University
Fall 2022	**Information Visualization (CS 485 / 584)** (41 students) Emory University
Spring 2022	**Human-Computer Interaction (CS 485 / 584)** (40 students) Emory University
Fall 2021	**Information Visualization (CS 485 / 584)** (26 students) Emory University

Guest Lecturer

Mar 2024	**Information Visualization** Environmental Health Seminar: Impact Evaluation of Global and Environmental Health Programs and Projects (EH 590R), Emory University
Oct 2023	**Visual Analytics** Human-AI Interaction (CS 485/585), Emory University
Feb 2023	**Accessibility and Universal Design in HCI** Affordable and Sustainable Healthcare Technologies (BMI 585), Emory University
Nov 2022	**Bias in Data-Driven Decision Making: Perception, Cognition, and Metacognition** Introduction to Information Visualization (CS 4460), Georgia Institute of Technology
Oct 2021	**Visual Analytics** Data Visualization (CompSci 765), University of Wisconsin
Feb 2019	**Introduction to Javascript** Introduction to Information Visualization (CS 4460), Georgia Institute of Technology

Dec 2017	**Cognition in Visualization**
	Information Visualization (CS 7450), Georgia Institute of Technology
Nov 2017	**Visual Analytics**
	Information Visualization (CS 7450), Georgia Institute of Technology
Jun 2017	**Visualization Design: Do's and Don'ts**
	Introduction to Information Visualization (CS 4460), Georgia Institute of Technology

Presentations

Invited Talks

Cognition & Visualization @ Emory: A Visualization Viewpoint on Mitigating Metacognitive Deficits

> *March 2024*. Scientific Computing and Imaging (SCI) Institute at University of Utah.

> *September 2022*. Emory SON Center for Data Science.

> *September 2022*. ATLAS Institute at University of Colorado - Boulder.

Good and Bad Biases in Innovation, Decision Making, and Beyond

> *November 2023*. Emory Center for Mind, Brain, and Culture.

Bias in Visualization: Considering Equity through Research

> *November 2021*. Object Perception, visual Attention, and visual Memory (OPAM) conference. 🖥 Watch

As We Are: Detecting and Mitigating Human Bias in Visual Analytics

> *April 2021*. University of Utah, Data Science Seminar. Virtual Seminar.

> *October 2020*. Pacific Northwest National Laboratory. Virtual Brown Bag.

> *September 2020*. Emory University. Atlanta, GA. 🖥 Abstract

> *May 2020*. CMU & AFRL, Center for Excellence on Human-Machine Teaming. Virtual Brown Bag.

> *May 2020*. Siemens. Virtual Brown Bag.

> *March 2020*. Cornell University, Info Science Colloquium. Ithaca, NY. 🖥 Abstract

> *February 2020*. University of Washington, Allen School Colloquium. Seattle, WA. 🖥 Watch

> *February 2020*. Emory University. Atlanta, GA. 🖥 Abstract

> *February 2020*. New York University. New York, NY. 🖥 Abstract

> *February 2020*. University of Wisconsin. Madison, WI.

Left, Right, and Gender: Mitigating Implicit Human Bias in Visual Analytics

> *January 2020*. Georgia Institute of Technology, GVU Brown Bag. Atlanta, GA. 🖥 Watch

The Interactive Analytics Library: Treating Interaction as Data

> *May 2017*. Pacific Northwest National Laboratory. Richland, WA.

Other Posters and Demonstrations

Warning, Bias May Occur: Detecting and Mitigating Cognitive Bias in Visual Analytics (Poster & Demo)
> *October 2019*. Georgia Institute of Technology, GVU Demo Showcase. Atlanta, GA.
> *June 2019*. Summer Institute on Bounded Rationality. Berlin, Germany.
> *April 2019*. Georgia Institute of Technology, GVU Demo Showcase. Atlanta, GA.

Warning, Bias May Occur: A Proposed Approach to Detecting Cognitive Bias in Interactive Visual Analytics (Demo)
> *April 2018*. CRA-W Grad Cohort. San Francisco, CA.
> *April 2018*. Georgia Institute of Technology, GVU Demo Showcase. Atlanta, GA.
> *April 2017*. Georgia Institute of Technology, GVU Demo Showcase. Atlanta, GA.

Podium: Ranking Data Using Mixed-Initiative Visual Analytics (Poster & Demo)
> *April 2018*. Georgia Institute of Technology, GVU Demo Showcase. Atlanta, GA.
> *April 2017*. Georgia Institute of Technology, GVU Demo Showcase. Atlanta, GA.
> *April 2018*. CRA-W Grad Cohort. San Diego, CA.
> *April 2016*. Georgia Institute of Technology, GVU Demo Showcase. Atlanta, GA.

Students

Graduate Advisees

2019-
Yanan Da
Ph.D. Computer Science and Informatics, Emory University

2019-
Ziwei Dong
Ph.D. Computer Science and Informatics, Emory University

2019-
Shrey Gupta (co-advised w/ Avani Wildani)
Ph.D. Computer Science and Informatics, Emory University

2021-
Shiyao Li
Ph.D. Computer Science and Informatics, Emory University

2022-
Mengyu (Bonnie) Chen
Ph.D. Computer Science and Informatics, Emory University

2023-
Thomas Davidson
Ph.D. Computer Science and Informatics, Emory University

Undergraduate Honors Thesis Advisees

2024   **Tommy Skodje**
Thesis: A Virtual Reality Toolkit for Evaluating Memory in
Epilepsy Patients
B.S. Honors Computer Science, Emory University (after
Emory: M.S. student)

Thesis Committee (Undergraduate)

2024   **Yijun Liu**
Thesis:
B.S. Computer Science, Emory University

2024   **Cole Smith**
Thesis: Urinary RNA Biomarkers in Extracellular Vesicles from
Post-DRE Urine to Predict Aggressive Prostate Cancer
B.S. Highest Honors Chemistry, Minor Computer Science,
Emory University

2023   **Elijah Chou**
Thesis: Measuring creativity in computer programming: A
code distance approach
B.S. Highest Honors Computer Science, Emory University
(after Emory: M.S. student, Emory)

2023   **Chen Gong**
Thesis: Evaluating Speaker Diarization in Transcripts: A Text-
based Approach with the TDER Metric and the
TranscribeView System
B.S. Highest Honors Computer Science, Emory University
(after Emory: M.S. student)

2023   **Alexandra Li**
Thesis: Signaface: Face Generation for SSL/TLS Certificate
Change Detection
B.S. Highest Honors Computer Science, Emory University
(after Emory: Ph.D. student, CMU)

2023   **Noah Okada**
Thesis: Development of Immersive Cognitive Tasks for Use in
Human Memory Research
B.S. Highest Honors Computer Science and Neuroscience,
Emory University (after Emory: Ph.D. student, CalTech)

2023   **Peyton Robertson**
Thesis: Vulnerability Detection: A Machine Learning
Approach to Identifying Security Vulnerabilities In Code
B.S. Honors Computer Science, Emory University (after
Emory: Cybersecurity Engineer, Microsoft)

2023   **Sierra Talbert**
Thesis: Human.exe: Generating Critical Theories of Humanity
in Human-Computer Interaction
B.S. Highest Honors Women, Gender, and Sexuality Studies
and Computer Science, Emory University

2023   **Kevin Wu**

Thesis: CONSchema: Schema matching with semantics and constraints
B.S. Honors Computer Science, Emory University (after Emory: Software Engineer, Capital One)

2023   **Ruby Wu**

Thesis: ClusT: Interactive Visualization Tool for Deep Constrained Clustering on Tweets
B.S. Honors Computer Science, Emory University (after Emory: M.S. student, CMU)

2023   **Zach Zaiman**

Thesis: AudioStrike: Acoustic Identification of Keystrokes to Enhance End-to-End Session Integrity
B.S. Highest Honors Computer Science, Emory University (after Emory: Software Engineer, Microsoft)

2022   **Christina Chance**

Thesis: Accuracy of African American Vernacular English for Closed Captioning on Zoom
B.S. Honors Computer Science, Emory University (after Emory: Ph.D. student, UCLA)

Mentoring

2023-   **Audrey Bu**, B.S. Quantitative Sciences (Sociology Track) & Mathematics, Emory University, Class of 2025
Measuring gender and racial biases in university admissions

2022-2023   **Yijun Liu**, B.S. Quantitative Sciences, Emory University, Class of 2024
Detecting Dunning-Kruger Effect in data visualization

2022-2023   **Zhongzheng Xu**, B.S. Computer Science, Emory University, Class of 2023 (after Emory: M.S. student, Brown)
Visual and tangible data accessibility

2021-2023   **Randy Truong**, B.S. Computer Science and Quantitative Sciences, Emory University, Class of 2023 *(after Emory: Pacific Northwest National Laboratory)*
Eliciting affective response using visualization and sonification

2021-2022   **Zhou (Serena) Fang**, B.S. Quantitative Sciences, Emory University, Class of 2022 *(after Emory: M.S. Biomedical Informatics, Harvard)*
Incorporating topic modeling in a visual analytic system for conducting literature reviews

2021-2022   **Yiping (Jessie) Liang**, B.S. Computer Science and Applied Math, Emory University, Class of 2022
Conducting user study and evaluation for assessing impact of data representation on confirmation bias

2020-2021 **Star Liu**, B.S. Quantitative Sciences, Emory University, Class of 2021

Developed system for visualizing health inequities during the COVID-19 pandemic, first author of case study on COVID-19 Health Equity Dashboard

after Emory: MS Health Sciences Informatics Student at Johns Hopkins

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Service

Professional Service

2021-2024 **Organizing Committee**
Doctoral Colloquium Chair, VIS 2024
Elections Chair, VIS 2021-2023

> **Program Committee Member**
ACM FAccT, 2023
IEEE VIS, 2021-2023
BELIV Workshop on *"Designing and Evaluating Visualizations for an Ethical, Inclusive, and Responsible Future"*, 2022
EuroVis, 2022, 2024
ACM CHI, 2022, 2024
Vis4Good Workshop at IEEE VIS, 2021
IEEE VIS Short Papers, 2020
VISxAI Workshop at IEEE VIS, 2019
CHI Late Breaking Work, 2018

> **Organizer**
Visualization for Social Good Workshop at IEEE VIS 2023
Visualization for Social Good Workshop at IEEE VIS 2022
TRust and EXpertise in Visual Analytics (TREX) Workshop at IEEE VIS 2021
TRust and EXpertise in Visual Analytics (TREX) Workshop at IEEE VIS 2020

> **Panelist**
Establishing and Thriving in an Academic Career @ IEEE VIS, 2023
What is a Visual Analytics contribution, and how is it changing? @ IEEE VIS, 2023
Women in Tech Panel, Emory Data Science Club and ProgramHers, 2023
Equity in Vision Science at Object Perception, visual Attention, and visual Memory (OPAM) conference, 2021
Advancing Visualization Inclusion and Diversity (AVID) Workshop at IEEE VIS, 2017

> **Reviewer (Papers)**
Nature: 2023
IEEE VIS: 2017-2024
CHI: 2018-2024
Universal Access in the Information Society (UAIS): 2023

FAccT: 2023
TVCG: 2018-2023
EuroVis: 2020-2024
ACM TiiS: 2022
Cognitive Research: 2022
CG&A: 2021
CSCW: 2021
International Journal of Human-Computer Studies: 2019
KDD IDEA: 2017
VAST Challenge: 2016

> **Reviewer (Funding)**
Austrian Science Fund (FWF): 2023
Natural Sciences and Engineering Research Council of Canada: 2022
National Science Foundation: 2021

> **Session Chair**
Questioning Data and Data Bias @ IEEE VIS 2022
Guidelines and Accessibility @ EuroVIS 2022
Interaction and Animation @ IEEE VIS 2020

> **Other Committees**
VISxAI Best Paper Award Selection Committee: 2021
CHI Best Paper Award Selection Committee: 2022

Institutional Service

2020-2021 | **Faculty Search Committee**
Computer Science Department, Emory University

2020-2024 | **Graduate Admissions Committee**
Computer Science Department, Emory University

> **Honors Program Selection Committee**
Computer Science Department, Emory University, 2023

> **Panelist**
DEI Statement Panel, Emory University, 2021
Innovations in Online Teaching Panel, Emory University, 2021

Selected Media

Nov 2019 | **A Reflection on VIS2019: Or, How Doomed Are We?**
Medium Blog Post, Multiple Views on Visualization Research Explained. 🔖 Read
by Michael Correll

Nov 2019 | **Highlights from IEEE VIS 2019**, Uncharted Software Blog.
🔖 Read
by Rosa Romero-Gómez

May 2019	**Battling Bias**. Ep. 3, Tech Unbound Podcast. 🎧 Listen with Josh Preston

Other Professional Activities

Sep 2023	[Human-Centered Approaches for Provenance in Automated Data Science](#) Dagstuhl, Wadern, Germany
Aug 2022	[Interactive Visualization for Fostering Trust in ML](#) Dagstuhl, Wadern, Germany
Aug 2022	[Emory CFDE Summer Teaching Intensive](#) Emory University
Jun 2022	[Visualization Summer Camp](#) Atlantic City, NJ
Fall 2021	[Emory CFDE Grantseekers' Institute](#) Emory University
Oct 2021, June 2020	[Emory College Online Teaching Strategies (ECOTS)](#) Emory University
Aug 2021	[Visualization Summer Camp](#) Minneapolis, MN
Oct 2019	[NextProf Nexus Workshop](#) Atlanta, GA
Jun 2019	[Summer Institute on Bounded Rationality](#) Berlin, Germany
Apr 2018	[CRA-W Grad Cohort Workshop](#) San Francisco, CA
Oct 2016	[Grace Hopper Celebration of Women in Computing](#) Houston, TX
Apr 2016	[CRA-W Grad Cohort Workshop](#) San Diego, CA