

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.



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Google Scholar



LinkedIn



Math & Science
Center W302K



[https://emilywall.pr
of](https://emilywall.pr
of)



PDF of CV (last
updated: 2026-02-
09)

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
<i>summa cum laude</i> |

Honors & Awards

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

Publications

Journal Articles

rutaBAGA: A Visualization Approach for Bias Awareness in University Admissions

Y. Da, Y. Bu, Y. Li, and E. Wall

Journal of Visualization and Interaction (JoVI), 2025.

 [PDF](#)

Behavior Matters: An Alternative Perspective on Promoting Responsible Data Science

Z. Dong, A. Patil, Y. Shoda, L. Battle, and E. Wall

Proceedings of the ACM Conference on Computer Supported Cooperative Work (CSCW), 2025.

 [PDF](#)

Unmasking Dunning-Kruger Effect in Visual Reasoning & Judgment

M. Chen, Y. Liu, and E. Wall

IEEE Transactions on Visualization and Computer Graphics (Proc. VIS'24), 2024.

 [PDF](#)

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

Visual Saliency to Mitigate Gender Bias in Recommendation Letters

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

Proceedings of the 20th IFIP TC 13 International Conference on Human-Computer Interaction (INTERACT'25), 2025.

[PDF](#)

A Novel Lens on Metacognition in Visualization

M. Chen, A. Yang, A. Min, K. Hamilton, and E. Wall

Proceedings of the SIGCHI Conference on Human Factors in Computing Systems (CHI), 2025.

[PDF](#) | [Talk](#)

Confirmation Bias: The Double-Edged Sword of Data Facts in Visual Data Communication

S. Li, T. Davidson, C. Xiong-Bearfield, and E. Wall

Proceedings of the SIGCHI Conference on Human Factors in Computing Systems (CHI), 2025.

[PDF](#) | [Talk](#)

A Design Space of Behavior Change Interventions for Responsible Data Science

Z. Dong, T. Barrett, A. Patil, Y. Shoda, L. Battle, and E. Wall

Proceedings of the Conference on Intelligent User Interface (IUI), 2025.

[PDF](#)

Novel methods of assessing memory with technology: Addressing the need for new theory and measures in the setting of minimally invasive epilepsy surgery

D. Drane, N. Okada, Y. Rajeh, E. Paek, K. Adams, and E. Wall



Exploring the Capability of LLMs in Performing Low-Level Visual Analytic Tasks on SVG Data Visualizations

Z. Xu and E. Wall

IEEE Information Visualization (VIS) Short Papers, 2024.



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. Strobel, and L. Padilla

IEEE Pacific Visualization Conference, 2024.



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

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

IEEE Information Visualization (VIS) Short Papers, 2023.



Toward a Design Space for Mitigating Cognitive Bias in Vis

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

IEEE Information Visualization (VIS) Short Papers, 2019.



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.



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.



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.



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

(Best Paper) Visualization and Automation in Data Science: Exploring the Paradox of Humans-in-the-Loop

J. Rogers, M. Anastacio, J. Bernard, M. Chakhchoukh, R. Faust, A. Kerren, S. Koch, L. Kotthoff, C. Turkay, and *E. Wall*
Workshop on Visualization in Data Science (VDS, at VIS'24), 2024.

 [PDF](#)

VITALITY 2: Reviewing Academic Literature Using Large Language Models

H. An, A. Narechania, *E. Wall*, and K. Xu

Workshop on Natural Language and Visualization (NLVIZ, at VIS'24), 2024.

 [PDF](#)

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

Books and Book Chapters

Human Bias in Visual Data Analysis: A Synthesis of Research to Empower Decision Makers

E. Wall

Springer, 2026.

 [Open Access Book](#)

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

2024-
2029

[Promoting Metacognition in Visual Analytics](#)

[NSF CAREER Award](#)

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

2024-2025	Student Travel Support for the Doctoral Colloquium at IEEE Visualization (IEEE VIS) 2024 NSF IIS Travel Award Role: PI Funded: \$25,000
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 2025	Information Visualization (CS 441 / 541) (39 students) Emory University
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Fall 2024	Introduction to Computer Science II (CS 171) (23 students) Emory University
Spring 2024	Design Studio in 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

Feb 2026	Information Visualization Professional Development: IMSD/MARC, Emory University
Jan 2025	Information Visualization Professional Development: IMSD/MARC, Emory University
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

Awareness, Behavior, Decisions, Oh My! Detecting and Mitigating Biases in Visualization

- > *May 2025.* [Focus Period Linköping University: Visualization-Empowered Human-in-the-Loop Artificial Intelligence.](#)
- > *October 2025.* [TU Wien.](#)
- > *January 2026.* [Clemson University.](#)

Improving Decision Making with Visualizations for Social Good

- > *July 2025.* [Gordon Research Conference: Visualization in Science and Education.](#)

Information Visualization: Creating Effective Grant Figures

- > *June 2025.* [Emory CFDE NSF CAREER Academy.](#)

A Visualization Viewpoint on Mitigating Metacognitive Deficits

- > *October 2024.* [Human-Centered Computing \(HCC\) Seminar at University of Minnesota.](#)
- > *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. [!\[\]\(c507f772dba2b921f86777f01218e570_img.jpg\) Abstract](#)

> *February 2020*. University of Washington, Allen School Colloquium. Seattle, WA. [!\[\]\(4729e517bc6a7cd81c8025b9646574fb_img.jpg\) Watch](#)

> *February 2020*. Emory University. Atlanta, GA. [!\[\]\(cbe80b694ebd74fcfe136a095b608235_img.jpg\) Abstract](#)

> *February 2020*. New York University. New York, NY. [!\[\]\(a03a7eb2f4046e1d3c76772003e549ea_img.jpg\) 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. [!\[\]\(3e2231b1ad3ca8da8658228c00dd08e0_img.jpg\) Watch](#)

The Interactive Analytics Library: Treating Interaction as Data

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

Other Posters and Demonstrations

 **(Best Poster) Emory Multimodal Learning Test: A gamified paradigm to assess rarely explored aspects of memory in the setting of epilepsy surgery and beyond.** (Poster)

Drane, D. L., Okada, N., Brady, E., Shade, T., Manley, M. A., Isibor, F., Chen, E., Dickey, A. S., Laxpati, N., Wall, E., & Adams, K.

> *March 2025*. Presented at the annual meeting of the Georgia Clinical and Translational Science Alliance (CTSA). (Calloway Resort and Gardens, Georgia)

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.

Students

Graduate Advisees

Current Students

- 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

Alumni

- 2019- **Yanan Da**
2025
Ph.D. Computer Science and Informatics, Emory University
Thesis: *"Characterizing and Mitigating Human Bias in Holistic Reviews with Interactive Visualization"*
(after Emory: Founding Engineer, Akify)
- 2019- **Ziwei Dong**
2025
Ph.D. Computer Science and Informatics, Emory University
Thesis: *"Towards Responsible Data Science with Behavior Change Interventions"*
(after Emory: Applied Scientist, Amazon)

Thesis Committee (Ph.D.)

- 2024 **Shrey Gupta**, *"Transfer and Integration of Knowledge for Irregular Spatiotemporal Data"*
Ph.D. Computer Science and Informatics, Emory University
(after Emory: Postdoctoral Scholar, Boston College)

Thesis Committee (Master's)

- 2024 **Catherine Baker**
Thesis: Read with Emora: Revolutionizing Children's Reading Comprehension Through An LLM-Powered Personalized Intelligent Tutoring System for Vocabulary, Grammar, and Context-Based Learning

Undergraduate Honors Thesis Advisees

2024 **Tommy Skodje**
Thesis: An Eye-Tracking Toolkit for Evaluating Memory in Epilepsy Patients
B.S. Honors Computer Science, Emory University (after Emory: M.S. student)

Thesis Committee (Undergraduate)

2025 **Junzhi (Molly) Han**
Thesis: Reducing Cognitive Load in Digital Reading: An LLM-Powered Approach for Universal Reading Comprehension
B.S. High Honors Quantitative Theory and Methods (QTM), Emory University (after Emory: M.S. student, Harvard)

2025 **Sophia Whitmire**
Thesis: Friction by Design: Restoring Agency in the Attention Economy
B.S. High Honors Interdisciplinary Studies (IDS), Emory University (after Emory: BCGBrighthouse)

2024 **Yijun Liu**
Thesis: CodeCuddle: Automating Inclusive Web Design with Large Language Model
B.S. High Honors 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 (after Emory: Ph.D. student, UCLA)
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

2024-2025	Keke Wu , Postdoctoral Fellow, Ph.D. Computer Science, University of North Carolina, 2024 Data accessibility for cognitive diversity (after Emory: Assistant Professor, University of Maryland)
2024	Molly Han , B.S. Quantitative and Social Sciences, Emory University, Class of 2024 Bias in university admissions
2024-	Aiden Min , B.S. Computer Science & Mathematics, Emory University, Class of 2027 Metacognition in visualization

2024-	Daisy Wang , B.S. Computer Science & Economics, Emory University, Class of 2025 Personal informatics with music listening data
2024-	Daiwei Wang , B.S. Quantitative Sciences & Economics, Emory University, Class of 2027 Bias in university admissions
2024-	Andrew Yang , B.S. Psychology, Emory University, Class of 2025 Metacognition in visualization
2024-	Robert Jarman , B.S. Computer Science, Emory University, Class of 2026 Personal informatics with music listening data
2023-	Ethan Lee , B.S. Computer Science & Psychology, Emory University, Class of 2026 Personal informatics with music listening data
2023- 2024	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 (<i>after Emory: Pacific Northwest National Laboratory</i>) Eliciting affective response using visualization and sonification
2021- 2022	Zhou (Serena) Fang , B.S. Quantitative Sciences, Emory University, Class of 2022 (<i>after Emory: M.S. Biomedical Informatics, Harvard</i>) 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 <i>after Emory: MS Health Sciences Informatics Student at Johns Hopkins</i>

Service

Professional Service

- 2021-2026
 - Organizing Committee**
 - Short Papers Chair, [VIS 2026](#)
 - Doctoral Colloquium Chair, [VIS 2024-2025](#)
 - Elections Chair, [VIS 2021-2023](#)
 - > **Associate Editor**
 - [Transactions on Visualization and Computer Graphics \(TVCG\)](#) 2025-present
 - [Journal of Visualization and Interaction \(JoVI\)](#) 2024-2025
 - > **Program Committee Member**
 - EuroVis Short Papers, 2026
 - IEEE VIS, 2021-2023, 2025
 - EuroVis, 2022, 2024, 2025
 - ACM CHI, 2022, 2024
 - ACM FAccT, 2023
 - BELIV Workshop on *"Designing and Evaluating Visualizations for an Ethical, Inclusive, and Responsible Future"*, 2022
 - Vis4Good Workshop at IEEE VIS, 2021
 - IEEE VIS Short Papers, 2020
 - VISxAI Workshop at IEEE VIS, 2019
 - CHI Late Breaking Work, 2018
- 2025
 - College Board AP Computer Science Fellow**
 - Review AP Exam
 - > **Organizer**
 - [Visualization for Social Good Meetup at IEEE VIS 2024](#)
 - [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)**
 - UIST: 2025

- IEEE VIS: 2017-2025
- CHI: 2018-2025
- TVCG: 2018-2025
- EuroVis: 2020-2025
- Nature: 2023
- Universal Access in the Information Society (UAIS): 2023
- FAccT: 2023
- 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)**
 - National Science Foundation: 2021 (ad hoc), 2024 (Panelist), 2025 (ad hoc)
 - Austrian Science Fund (FWF): 2023
 - Natural Sciences and Engineering Research Council of Canada: 2022
- > **Session Chair**
 - Questioning Data and Data Bias @ IEEE VIS 2022
 - Guidelines and Accessibility @ EuroVIS 2022
 - Interaction and Animation @ IEEE VIS 2020
- > **Other Committees**
 - PacificVis VisNotes Best Paper Award Selection Committee: 2025
 - CHI Best Paper Award Selection Committee: 2022
 - VISxAI Best Paper Award Selection Committee: 2021

Institutional Service

- 2025-2026 **Faculty Search Committee**
Computer Science Department, Emory University
- 2020-2025 **Graduate Admissions Committee**
Computer Science Department, Emory University
- 2023-2025 **Honors Program Selection Committee**
Computer Science Department, Emory University
- 2020-2021 **Faculty Search Committee**
Computer Science Department, Emory University
- > **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

- July 2025 **VIS-Southeast Meetup**, Co-Host
Emory University
- Mar 2025 **[Data Poetics](#)** event at the Atlanta Science Festival, Co-Organizer
[Atlanta Science Festival](#)
- Oct 2024 **Atlanta Satellite Events for IEEE VIS**, Co-Organizer
Emory, Georgia Tech
- Oct 2023 **Atlanta Visualization Meetup**, Co-Host
Georgia Tech
- 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	<u>Grace Hopper Celebration of Women in Computing</u> Houston, TX
Apr 2016	<u>CRA-W Grad Cohort Workshop</u> San Diego, CA
