

# 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



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

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# 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.



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.



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.



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.*

### 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.

### 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.

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## Conference Proceedings

### Visual Salience 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.

### 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.

### 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.

### 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.

### 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. Strobelt, 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.*



| 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.*



| 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.*



| 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.*



| 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.*



| 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

## Supporting Team-First Visual Analytics through Group Activity Representations

S.K. Badam, Z. Zeng, *E. Wall*, A. Endert, and N. Elmquist  
*Graphics Interface*, 2017.

[PDF](#) | [Video](#)

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## Refereed Workshop Papers

### ❶ (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*

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## 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

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**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

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## Theses

**Detecting and Mitigating Human Bias in Visual Analytics**

*Emily Wall*

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

 PDF

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## Grants & Funding

### Research

2024-	<a href="#"><b>Promoting Metacognition in Visual Analytics</b></a>
2029	<a href="#"><u>NSF CAREER Award</u></a>
	Role: PI
	Funded: \$643,965 (Emory)
2023-	<a href="#"><u>Advancing Visualization Decision Support through Mitigating Confirmation Bias</u></a>
2027	<a href="#"><u>NSF IIS-HCC</u></a>
	Role: PI
	Co-PI: <a href="#"><u>Dr. Cindy Xiong</u></a>
	Funded: \$683,097 (Emory) / \$1,198,084 (total)
2023-	<a href="#"><u>Toward Interventions For Equitable University Admissions With Visual Analytics</u></a>
2026	<a href="#"><u>Emory Office of Provost: Racial Justice/Racial Equity</u></a>
	Role: PI
	Co-PI: <a href="#"><u>Dr. Wesley Longhofer</u></a> Funded: \$148,850
2023-	<a href="#"><u>Developing Behavior Change Interventions for Responsible Data Science</u></a>
2024	<a href="#"><u>Emory University Research Committee</u></a>

	Role: PI Funded: \$30,000
2023- 2024	<b>Developing an Immersive Cognitive Task for Expanding the Assessment of Memory in Pediatrics</b> <u>Pediatric Research Alliance Pilot Grant</u> 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	<b>A Novel Web-based Decision Aid Tool for Reducing COVID-19 Vaccine Hesitancy</b> <u>HealthCare Innovation Seed Grant</u> Role: Co-I Co-PIs: Dr. Ambar Kulshreshtha, Dr. Shivani Patel, Dr. Piyush Kumar Funded: \$24,995

## Other

2024- 2025	<b>Student Travel Support for the Doctoral Colloquium at IEEE Visualization (IEEE VIS) 2024</b> NSF IIS Travel Award Role: PI Funded: \$25,000
2023 Spring	<b>Scholarly Writing And Publishing (SWAP) Fund Award</b> Emory University Funded: \$2,250 Purpose: hire editor to assist with NSF CAREER proposal writing
2023 Spring	<b>Pedagogy Mini Grant</b> Human-Computer Interaction (CS 485/584), Emory University Funded: \$350 Purpose: purchase Google cardboard for a virtual reality design module
2022 Fall	<b>Pedagogy Mini Grant</b> Information Visualization (CS 485/584), Emory University Funded: \$350 Purpose: fund user study incentives for course projects that are pursuing publication

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## Teaching

### Instructor

Spring 2025	<b>Information Visualization (CS 441 / 541) (39 students)</b> Emory University
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Fall 2024	<b>Introduction to Computer Science II (CS 171) (23 students)</b> Emory University
Spring 2024	<b>Design Studio in Human-Computer Interaction (CS 485 / 584) (29 students)</b> Emory University
Fall 2023	<b>Information Visualization (CS 441 / 541) (36 students)</b> Part of the <u>Arts &amp; Social Justice Program</u> Emory University
Spring 2023	<b>Human-Computer Interaction (CS 485 / 584) (34 students)</b> Emory University
Fall 2022	<b>Information Visualization (CS 485 / 584) (41 students)</b> Emory University
Spring 2022	<b>Human-Computer Interaction (CS 485 / 584) (40 students)</b> Emory University
Fall 2021	<b>Information Visualization (CS 485 / 584) (26 students)</b> Emory University

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## Guest Lecturer

Feb 2026	<b>Information Visualization</b> Professional Development: IMSD/MARC, Emory University
Jan 2025	<b>Information Visualization</b> Professional Development: IMSD/MARC, Emory University
Mar 2024	<b>Information Visualization</b> Environmental Health Seminar: Impact Evaluation of Global and Environmental Health Programs and Projects (EH 590R), Emory University
Oct 2023	<b>Visual Analytics</b> Human-AI Interaction (CS 485/585), Emory University
Feb 2023	<b>Accessibility and Universal Design in HCI</b> Affordable and Sustainable Healthcare Technologies (BMI 585), Emory University
Nov 2022	<b>Bias in Data-Driven Decision Making: Perception, Cognition, and Metacognition</b> Introduction to Information Visualization (CS 4460), Georgia Institute of Technology
Oct 2021	<b>Visual Analytics</b> Data Visualization (CompSci 765), University of Wisconsin
Feb 2019	<b>Introduction to Javascript</b> Introduction to Information Visualization (CS 4460), Georgia Institute of Technology

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

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## 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.  [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.

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## **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.

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## 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)

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### 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)

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### 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

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### 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)

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## 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)

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## 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-  
2025      **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- **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*

# 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

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## Institutional Service

- 2025- **Faculty Search Committee**  
2026 Computer Science Department, Emory University
- 2020- **Graduate Admissions Committee**  
2025 Computer Science Department, Emory University
- 2023- **Honors Program Selection Committee**  
2025 Computer Science Department, Emory University
- 2020- **Faculty Search Committee**  
2021 Computer Science Department, Emory University
- > **Panelist**
- DEI Statement Panel, Emory University, 2021  
Innovations in Online Teaching Panel, Emory University, 2021

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## 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

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## 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

**Grace Hopper Celebration of Women in Computing**  
Houston, TX

Apr  
2016

**CRA-W Grad Cohort Workshop**  
San Diego, CA

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