
Research Interests

Data Visualization, Visual Analytics, Human-Computer Interaction

Education

- Expected 2024 **Ph.D. in Computer Science**, *Washington University in St. Louis*, St. Louis, MO.
Advisor: Dr. Alvitta Ottley
- 2023 **M.S. in Computer Science**, *Washington University in St. Louis*, St. Louis, MO.
Advisor: Dr. Alvitta Ottley
- 2019 **B.A. in Computer Science**, *New College of Florida*, Sarasota, FL.
Advisor: Dr. Matthew Lepinski

Research Experience

- Aug. 2019 – present **Graduate Research Assistant**, *Washington University in St. Louis*, St. Louis, MO.
Visual Interface and Behavior Exploration (VIBE) Lab, Advisor: Dr. Alvitta Ottley
- June 2018 – Aug. 2018 **Data Visualization Research Intern**, *Washington University in St. Louis*, St. Louis, MO.
Big Data Analytics REU Program, Mentors: Drs. Alvitta Ottley and William Yeoh
- June 2017 – Aug. 2018 **Data Science Research Intern**, *Worcester Polytechnic Institute*, Worcester, MA.
Data Science REU Program, Mentors: Drs. Emmanuel Agu and Elke Rudensteiner

Teaching Experience

- Aug. 2023 – Dec. 2023 **Instructor**, *Washington University in St. Louis*, St. Louis, MO.
Course: Introduction to Visualization (CSE 457A)
- Aug. 2020 – Dec. 2020 **Assistant Instructor**, *Washington University in St. Louis*, St. Louis, MO.
Course: Introduction to Visualization (CSE 457A)
- Aug. 2017 – Dec. 2018 **Teaching Assistant**, *New College of Florida*, Sarasota, FL.
Courses: Object-Oriented Design, Functional Problem Solving with Scheme, Social and Ethical Issues in Computer Science

Publications

In Submission

- 2023 **Sunwoo Ha**, Shayan Monadjemi, and Alvitta Ottley. Guided By AI: Navigating Trust, Bias, and Data Exploration in AI-Guided Visual Analytics, 2023 [In Submission to Eurographics EuroVis 2024].

Conference Papers

- 2023 **Sunwoo Ha**, Shayan Monadjemi, Roman Garnett, and Alvitta Ottley. A Unified Comparison of User Modeling Techniques for Predicting Data Interaction and Detecting Exploration Bias. In *IEEE Transactions on Visualization and Computer Graphics*, volume 29, pages 483–492, 2023.
- 2023 Melanie Bancilhon, Amanda Wright, **Sunwoo Ha**, R. Jordan Crouser, and Alvitta Ottley. Why Combining Text and Visualization Could Improve Bayesian Reasoning: A Cognitive Load Perspective. In *Proceedings of the 2023 CHI Conference on Human Factors in Computing Systems*, CHI '23. Association for Computing Machinery, 2023.

- 2022 Shayan Monadjemi, **Sunwoo Ha**, Quan Nguyen, Henry Chai, Roman Garnett, and Alvitta Ottley. Guided Data Discovery in Interactive Visualizations via Active Search. In *2022 IEEE Visualization and Visual Analytics (VIS)*, pages 70–74, 2022.
- 2020 Christabel Wayllace, **Sunwoo Ha**, Yuchen Han, Jiaming Hu, Shayan Monadjemi, William Yeoh, and Alvitta Ottley. DRAGON-V: Detection and Recognition of Airplane Goals with Navigational Visualization. In *Proceedings of the AAAI Conference on Artificial Intelligence*, volume 34, pages 13642–13643, 2020.

Workshop Papers and Poster Presentations

- 2023 **Sunwoo Ha**, Chaehun Lim, R. Jordan Crouser, and Alvitta Ottley. Visual Analytics System for AI-Based Speech-to-Text Analysis and Exploration. In *2023 Laboratory for Analytic Sciences (LAS) Research Symposium*, 2023.
- 2021 **Sunwoo Ha** and Alvitta Ottley. The Role of Trust in Visual Analytic Provenance. In *ProvViz: Workshop on Provenance and Visualization*, 2021.
- 2020 **Sunwoo Ha**, Adam Kern, Melanie Bancilhon, and Alvitta Ottley. Expectation Versus Reality: The Failed Evaluation of a Mixed-Initiative Visualization System. In *2020 IEEE Workshop Celebrating the Scientific Value of Failure (FailFest)*, pages 1–5, 2020.

Services and Activities

- 2023 Acceptance to participate in 2023 IEEE VIS Doctoral Colloquium
- 2023 Represented WashU and recruited prospective graduate students at Tapia 2023
- 2022 Visualization for Communication (VisComm) Student Committee Member
- 2022 Represented WashU and recruited prospective graduate students at Grace Hopper Conference (GHC) 2022

Conference Reviewing

- 2023-2024 ACM SIGCHI Conference
- 2021- 2023 IEEE Visualization (VIS) Conference

Honors & Awards

- 2022-2023 Recipient of **Inclusivity and Diversity Scholarship** to attend IEEE VIS
- 2019 **Dean's Select Fellowship**, *Washington University in St. Louis*
- 2015 **Presidential Scholarship**, *New College of Florida*