Sunwoo Jennifer Ha

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. 2017 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

Mentoring Experience

Spring & Fall 2023 Chaehun Lim, M.S. in Computer Science (WashU '23)

Publications

In Submission

2024 Sunwoo Ha, Chaehun Lim, and Alvitta Ottley. Visual Analytics System for Automated Speech Recognition Analysis and Exploration [In Submission to IEEE Transactions on Visualization and Computer Graphics 2024].

Conference Papers

2024 Sunwoo Ha, Shayan Monadjemi, and Alvitta Ottley. Guided By Al: Navigating Trust, Bias, and Data Exploration in Al-Guided Visual Analytics, Computer Graphics Forum, 2024

- **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*, 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)*, 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*, 2020.

Workshop Papers and Poster Presentations

- **Sunwoo Ha**, Chaehun Lim, R. Jordan Crouser, and Alvitta Ottley. Visual Analytics System for Al-Based Speech-to-Text Analysis and Exploration. In *Laboratory for Analytic Sciences* (*LAS*) *Research Symposium*, 2023.
- **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 *IEEE Workshop Celebrating the Scientific Value of Failure (FailFest)*, pages 1–5, 2020.
- 2017 **Sunwoo Ha**, Courtney Burns, and Andrew Schade. EmotivoMOOD (EMU): Using Machine Learning Methods to Detect Depression by Voice. In *MIT/IEEE Undergraduate Research Tech Conference (URTC)*, 2017.

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