Sunwoo Jennifer Ha

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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

Mentoring Experience

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

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 *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 *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*, 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*