Sunwoo Jennifer Ha

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Education

2024   **Ph.D. in Computer Science**, *Washington University in St. Louis*, St. Louis, MO.
Advisor: Dr. Alvitta Ottley
Dissertation Title: Towards Building a Reliable Human-Machine Partnership – A Visual Analytics Approach

2023   **M.S. in Computer Science**, *Washington University in St. Louis*, St. Louis, MO.

2019   **B.A. in Computer Science**, *New College of Florida*, Sarasota, FL.

Technical Experience

June 2024 – Present   **Visual Analytics Scientist**, *Epsilon*, Chicago, IL.
Decision Sciences Visual Analytics (DSVA) Team

Research Experience

Aug. 2019 – May 2024   **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

Publications

Conference Papers

2024   **Sunwoo Ha**, Chaehun Lim, R. Jordan Crouser, and Alvitta Ottley. Confides: A Visual Analytics Solution for Automated Speech Recognition Analysis and Exploration. In *2024 IEEE Visualization and Visual Analytics (VIS)*, 2024.

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

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*, 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

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)*, 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.

Technical Skills

Languages: Python, JavaScript, HTML, CSS, R, Java, MATLAB

Libraries: React, D3.js, NodeJS, Flask, Numpy, Pandas, Scikit-Learn, Plotly

Tools: Linux, Git (Command Line), MySQL

Honors & Awards

2024 **Honorable Mention** for "Guided By AI: Navigating Trust, Bias, and Data Exploration in AI-Guided Visual Analytics" at EuroVis 2024 (Odense, Denmark)

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*

Services and Activities

2023 Acceptance to participate in 2023 IEEE VIS Doctoral Colloquium

2023 Represented WashU and recruited prospective students at Tapia

2022 Visualization for Communication (VisComm) Student Committee Member

2022 Represented WashU and recruited prospective students at Grace Hopper Conference (GHC)

Conference Reviewing

2023-2024 ACM SIGCHI Conference

2021- 2023 IEEE Visualization (VIS) Conference