# 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, R. Jordan Crouser, and Alvitta Ottley. ConFides: A Visual Analytics Solution for Automated Speech Recognition Analysis and Exploration [In Submission to *IEEE Transactions on Visualization and Computer Graphics* 2024].

## **Conference Papers**

**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**

- 2023 **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)*, 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.

# 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 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