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## Education

- Expected 2023 **Ph.D. in Computer Science**, *Washington University in St. Louis*, St. Louis, MO.  
Advisors: Drs. Alvitta Ottley and Roman Garnett
- 2020 **M.S. in Computer Science**, *Washington University in St. Louis*, St. Louis, MO.
- 2018 **B.S. in Computer Science with Honors**, *The University of Texas at Dallas*, Richardson, TX.  
Minor in Mathematics, Cum Laude, Collegium V Honors, Computing Scholars Honors

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## Research Experience

- Jun. 2021 - **Graduate Pathways Research Intern**, *NASA Ames Research Center*, Moffett Field, CA.
- Aug. 2018 - **Graduate Research Assistant**, *Washington University in St. Louis*, St. Louis, MO.  
Visual Data Analysis Group (VDAG), Mentors: Drs. Alvitta Ottley and Roman Garnett
- Jun. 2018 - Aug. 2018 **Research Intern**, *NASA Johnson Space Center*, Houston, TX.  
Space Radiation Analysis Group (SRAG), Mentor: Dr. Shaowen Hu
- Jun. 2017 - Aug. 2017 **Data Visualization Research Intern**, *Washington University in St. Louis*, St. Louis, MO.  
Big Data Analytics REU Program, Mentor: Dr. Alvitta Ottley
- Jun. 2016 - Aug. 2016 **Data Mining Research Intern**, *Washington State University*, Pullman, WA.  
Smart Environments REU Program, Mentors: Drs. Mohammad Hossein Namaki and Yinghui Wu

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## Teaching Experience

- Jan. 2021 - May 2021 **Assistant Instructor**, *Washington University in St. Louis*, St. Louis, MO.  
Course: Advanced Visualization (CSE 557A)
- Oct. 2019 - Oct. 2020 **Instructor**, *The Coding School*, Online.  
Courses: Introduction to Programming in Python, Introduction to Artificial Intelligence
- Aug. 2015 - May 2018 **Math Lab Peer Tutor and Team Leader**, *The University of Texas at Dallas*, Richardson, TX.  
Courses: College Algebra (MATH 1306), Pre-Calculus (MATH 2312), Calculus (MATH 1325, 1326, 2413, 2414, 2417, 2419), Linear Algebra (MATH 2418)

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## Publications

- 2022 Shayan Monadjemi, Sunwoo Ha, Quan Nguyen, Henry Chai, Roman Garnett, and Alvitta Ottley. Guided Data Discovery in Interactive Visualizations via Active Search. *IEEE Transactions on Visualization and Computer Graphics*, 2022.
- 2022 Sneha Gathani, Shayan Monadjemi, Alvitta Ottley, and Leilani Battle. A grammar-based approach for applying visualization taxonomies to interaction logs. *Computer Graphics Forum*, 2022.
- 2020 Shayan Monadjemi, Roman Garnett, and Alvitta Ottley. Competing Models: Inferring Exploration Patterns and Information Relevance via Bayesian Model Selection. *IEEE Transactions on Visualization and Computer Graphics*, 2020.
- 2020 Shaowen Hu, Shayan Monadjemi, Janet E. Barzilla, and E. Semones. Acute radiation risks tool (ARRT) development for the upcoming human exploration missions. *Space Weather*, 18(12), 2020.
- 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. *Proceedings of the AAAI Conference on Artificial Intelligence*, 34(09):13642–13643, 2020.

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## Professional Service

### Conference Reviewing

- 2022 IEEE Conference on Visual Analytics Science and Technology (VAST).

- 2020 IEEE Conference on Visual Analytics Science and Technology (VAST).
- 2020 ACM Conference on Human Factors in Computing Systems (CHI) Late-Breaking Work.

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## Extracurricular and Leadership

### Washington University in St. Louis

- 2019 - 2020 Member, *Center for Teaching and Learning Graduate Student Advisory Group*.
- 2018 - 2020 Department Representative, *Graduate Student Senate*.

### The University of Texas at Dallas

- 2016 - 2017 Elected Council Member, *Collegium V Honors Program Student Board*.
- 2015 - 2017 Director of Industry, *Association of Computing Machinery Student Chapter*.
- 2015 - 2018 Volunteer Peer Mentor, *Freshman Mentor Program*.
- 2015 - 2018 Member, *Linux Users Group*.
- 2015 - 2018 Percussionist, *Wind Ensemble*.

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## Honors and Awards

- 2018 Honorable Mention, *National Science Foundation Graduate Research Fellowship Program*.
- 2018 Dean's Select Fellowship, *Washington University in St. Louis*.
- 2015 - 2018 Academic Excellence Scholarship for Continuing Students, *The University of Texas at Dallas*.
- 2015 Engineering Academic Success Scholarship, *The University of Texas at Dallas*.