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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.  
Data Science Group (DSG), Mentors: Drs. Nikunj Oza and Rodney Martin
- 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 Sunwoo Ha, **Shayan Monadjemi**, Roman Garnett, and Alvitta Ottley. A Unified Comparison of User Modeling Techniques for Predicting Data Interaction and Detecting Exploration Bias. *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 Visualization for Data Science (VDS) Program Committee Member.  
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*.