

Rebecca Faust

3rd year PhD Student
Department of Computer Science
University of Arizona

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Research Interests

Data Visualization, Exploratory Data Analysis

Education

PhD in Computer Science Aug. 2016 -Present
University of Arizona Tucson, AZ
Advisor: Carlos Scheidegger

Bachelor of Science in Computer Science Aug. 2012- May 2016
Bachelor of Arts in Mathematics Aug. 2012- May 2016
University of Montana Missoula, MT
GPA: 3.94, High Honors

Research Projects

DimReader Sep. 2016 - June 2018

- Axis Lines to Explain Non-Linear Projections

Anteater June 2017 - Present

- Interactive Visualization for Program Understanding

Work Experience

Engineering Laboratory, NIST Gaithersburg, MD
GMSE Summer Fellow June - August 2018

- Understanding and debugging data science programs from program traces using visualization

Department of Computer Science, The University of Arizona Tucson, AZ
Research Assistant August 2016 - Present

- DimReader - Explaining non-linear dimensionality reductions through the small perturbations of data
- Anteater - Interactive visualization of program executions for debugging and understanding

Agile Data Solutions Missoula, MT
Software Testing and Development May 2014-Dec. 2015

- Testing and front end development of the content categorization software developed by Agile Data Solutions

Honors and Awards

NIST GMSE Fellowship	May 2018-Present
Galileo Circle Scholar	May 2018
University of Arizona Graduate Fellowship	August 2016
Mortar Board Outstanding Senior Award in Computer Science	May 2016
Mortar Board Outstanding Senior Award in Mathematics	May 2016
Montana University System Scholarship - full tuition waiver	2012-2016
University of Montana Honors Scholarship	2012-2016

Publications

- *DimReader: Axis Lines that Explain Non-linear Projections*. R.Faust, D. Glickenstein, C. Scheidegger. IEEE Transactions on Visualization and Computer Graphics (Proceedings of IEEE Vis 2018, 25.7% acceptance rate)

Computer Skills

Programming Languages: Python, Javascript, HTML, C/C++, SQL, C#, R

Libraries and Tools: Numpy, Scikit learn, D3