

# Rebecca Faust

2nd 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 - Present

- Using Auto-Differentiation to Explain Non-Linear Projections

## **Work Experience**

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

- Explaining non-linear dimensionality reductions through the small perturbations of data

**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**

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

## **Computer Skills**

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

**Libraries and Tools:** Numpy, Scikit learn, D3