

# Carson Davis Barningham

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## Education

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### **M.S. in Statistics and Data Science**

The University of Arizona, Tucson, AZ

Expected Spring 2024

### **B.S. in Mathematics and Computer Science**

The University of Arizona, Tucson, AZ

Minor: Economics

Graduated Summa Cum Laude with Honors

Fall 2020 - Spring 2023

## Research Interests

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Statistical Machine Learning, Neural Networks, Game Theory

## Research Experience

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### **Honors Thesis - Transparency & Trustworthiness**

Aug 2022 - May 2023

Examined the relationship between different levels of transparency and participant trustworthiness in an experimental setting. A modified version of the one-shot trust game was conducted with online participants that were assigned to one of four groups with different transparency levels. The results of the experiment indicated that transparency had a direct, linear, and positive effect on trustworthy behavior.

### **Research Assistantship**

The University of Arizona Center for Trust Studies

Jan 2022 - May 2022

Conducted research on the comparisons of different measures of trust to assist faculty members. Conducted multiple sessions of trust-related experiments in the Economic Science Laboratory.

## Teaching Experience

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### **Teaching Assistantship**

*MATH 313: Introduction to Linear Algebra*

Spring 2021

## Professional Experience

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**Software Development Engineer Intern** - Amazon

May 2023 - Aug 2023

**Software Development Engineer Intern** - Amazon

May 2022 - Aug 2022

**Mathematics Tutor** - Mathnasium

May 2018 - May 2022

## Technical Skills

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**Languages:** Python, Java, Rust, R, SAS, STATA, Ruby, C, MATLAB, Haskell, Prolog

**Libraries:** NumPy, Matplotlib, Pandas, Scikit

**Tools:** oTree, GitHub, AWS S3, Jupyter, Microsoft Office Suite

## Leadership and Activities

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**Debate Captain** - Rocky Mountain High School

Fall 2016 - Spring 2020

Researched current topics and communicated nuanced policy positions to judges and audience members. Presented topic analyses to teammates and hosted workshops to prepare for competitions. Placed 1st at the 2019 IDHSAA State Tournament and Top 64 at the 2019 National Debate Tournament in the public forum debate format.

## Honors and Awards

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Summa Cum Laude with Honors

High School Valedictorian

National Merit Finalist

National AP Scholar