

# Sina Bakhtiari

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## EDUCATION

### BOWDOIN COLLEGE

#### BA IN MATHEMATICS

Minor in Computer Science

May 2019 | Brunswick, ME

Cum. GPA: 3.8 / 4.0

Major GPA: 3.95 / 4.0

### ST. OLAF COLLEGE

#### BUDAPEST SEMESTERS IN

#### MATHEMATICS (BSM)

Spring 2018 | Budapest, Hungary

## COURSEWORK

### BOWDOIN

- Partial Differential Equations
- Computational Bayesian Statistics
- Abstract Algebra
- Quantum Bayesian Inference
- Real Analysis
- Linear Algebra
- Number Theory & Cryptography
- Artificial Intelligence
- Principles of Programming Languages
- Algorithms
- Data Structures

### BSM

- Combinatorics
- Quantum Information/Computation
- Statistical Methods

## SKILLS

### PROGRAMMING

Proficient:

Python

Familiar:

Java • Kotlin •  $\text{\LaTeX}$  • R •

Ruby • Rails • Mathematica

### COMPUTER

Microsoft Office

### LANGUAGE

English • Farsi • Spanish

## AWARDS

### FULBRIGHT FELLOWSHIP | ENGLISH TEACHING ASSISTANT

2019-2020 | Madrid, Spain

- Won a highly coveted fellowship funded by the U.S. State Department to act as a cultural ambassador and as a teacher in a Spain for one year.
- Worked with college students at La Universidad Camilo José Cela, teaching English and programming, while also exposing them to facets of U.S. culture.

## RESEARCH AND WORK EXPERIENCE

### WICHITA STATE UNIVERSITY ROBOTICS LAB | RESEARCHER

Summer 2018 | Wichita, KS

- Worked with a graduate student researching how machine learning models using near-infrared spectral data can be implemented for robotic grip.
- Used techniques from publications to preprocess near-infrared spectral data so it could be optimally used in classification models.

### BOWDOIN COLLEGE MATH DEPARTMENT | RESEARCHER

Summer 2017 | Brunswick, ME

- Explored various approaches to modifying the existing continued fraction algorithm in order to optimize convergence of terms
- Expanded upon sparse previous exploration in this topic and discovered new methods for creating continued fractions, improving convergence.

### BOWDOIN COLLEGE CLT | TEACHING/LEARNING ASSISTANT

January 2017 - May 2019 | Brunswick, ME

- Helped the professor teach students at the chalkboard in a hands-on, intimate classroom setting.
- Assisted students outside of class by reinforcing core concepts, helping with homework, and helping to study for exams.

### BOWDOIN COLLEGE LIBRARY | SCIENCE LIBRARY ASSISTANT

August 2016 - May 2019 | Brunswick, ME

- Helped students navigate and utilize the multitude of library resources.

### MATHNASIUM | INSTRUCTOR

May 2013 - August 2016 | Wichita, KS

- Taught students of all ages in topics ranging from basic arithmetic up to calculus.
- Used data from progress evaluations to quantify student improvement and effectively communicated the meaning of these results with parents.

## ACTIVITIES AND INTERESTS

### TECHNOVATION GIRLS | TEAM MENTOR

January 2020 - April 2020 | Madrid, Spain

- Mentored a team of young women as they made an app that provides university and career information for Spanish youth.

### BOWDOIN SKETCH COMEDY | WRITER/PERFORMER

August 2017 - May 2019 | Brunswick, ME

- Worked on a team to write, stage, and perform in a comedy show at the end of each semester involving both filmed, and live sketches.