Joseph McKinsey

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EDUCATION

COLORADO SCHOOL OF MINES

BS in progress in Applied Mathematics and Statistics
Aug. 2017 - Dec. 2019 | Golden, CO
Computational Applied Mathematics
Cum. GPA: 4.0

UCCS

Online courses in math taken concurrently in high school
January 2015 - May 2017

AIR ACADEMY HIGH SCHOOL

Aug. 2013 - May 2017 | Colorado Springs, CO
Cumulative GPA: 4.0

SKILLS

PROGRAMMING

Over 1000 lines:
Python • MATLAB • LaTeX• C++ • Haskell • Java • SageMath • Bash
Familiar:
R • Rust • Coq • Kotlin • C • Fortran • CSS • HTML

MISC.

Linux • Microsoft Word •PowerPoint •Excel
Organized • Good time-management skills
Optics Lab safety • Optics Techniques • Solidworks

LINKS

Github:// **https://github.com/josephmckinsey**
LinkedIn:// **https://www.linkedin.com/in/joseph-mckinsey-356195146**

ACTIVITIES

- Racquetball Club
- ACM - American Computing Machinery Club
- Putnam Seminar
- LUG - Linux Users Group

WORK EXPERIENCE

ALGORITHMS TA | Grader for CSCI 406

Jan. 2019 | Golden, CO

ARTHUR LAKES LIBRARY | ILL Assistant

Interlibrary Loans Lending: Searching and scanning
Aug. 2017 - Present | Golden, CO

UCCS OPTICS LAB | Intern

Assisting with preparation of liquid crystal cells
May 2017 – Aug. 2017 | Colorado Springs, CO

- Optics Lab Techniques, Safety, and Clean Room Use.

TEAM PROJECT EXPERIENCE

MINES MATHEMATICAL BIOLOGY PROJECT |

Evolutionary Game Theory for Uta stansburiana
May 2018

- Developed model of lizard evolution with final report and presentation.
- Used MATLAB, systems of nonlinear differential equations, and game theory.

APPLIED MATH FIELD SESSION | General Team-Based Modeling Course

June 2018

- Worked on modeling or algorithmic problems each week.
- Used graph theory, algorithms, and simulation. Typically in MATLAB, Python, and Haskell, all with LaTeX.

COURSEWORK

UNDERGRADUATE

- Diff. Eq. Linear Algebra
- Modern Physics I
- Intro to Probability
- Intro to Math. Stats.
- Database Management
- Functional Data Analysis
- EPICS, Math. Physics
- Discrete Mathematics
- Math. Biology
- Computational Capstone
- Into. to Math Modeling
- Scientific Computing
- Computational Diff. Eq.
- Intro. to Analysis
- Complex Analysis
- Number Theory
- Abstract Algebra
- Partial Diff. Eq.
- Algorithms
- Data Structures

AWARDS

Fall 2018	1st at ICPC Rocky Mountain Regionals	Competitive Programming Competition
Fall 2018	Nasdaq C-MAPP Fellow	Comp. Sci. Scholarship
Fall 2018	2nd in Tyler Tech Programming Competition	
Fall 2017 - Present	Mines Dean's Honors List	For continuous 4.0 GPA
Spring 2018	Runner-up to Oppenheimer Award.	Competition for Ethics Related Papers in the NHV course
Fall 2017	Putnam Exam: 11pt	Mathematical Proof Competition
2016	CSM Medal of Achievement in Math and Science	Mines award for promising high schoolers.