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
Summa Cum Laude
Cum. Unweighted 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 Club
- LUG - Linux Users Group
- Math Club + Recreational Math Club

WORK EXPERIENCE

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.

MINES EPICS - ENGINEERING DESIGN PROJECT | Improve Urban Infrastructure
Jan. 2018 - May 2018
- Created hydrophobic bridge cover for snow.
- Created final engineering report, prototype, and presentation.

COURSEWORK

UNDERGRADUATE

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

AWARDS

Fall 2018	Nasdaq C-MAPP Fellow	Comp. Sci. Scholarship
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
Spring 2017	Knowledge Bowl	3rd in state competition.
2016	CSM Medal of Achievement in Math and Science	Mines award for promising high schoolers.