

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/josephmckinsey-356195146>

ACTIVITIES

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

AWARDS

Fall 2018	Nasdaq C-MAPP Fellow
Fall 2018	2nd in Tyler Tech Programming Competition
Fall 2017 - Present	Mines Dean's Honors List
Spring 2018	Runner-up to Oppenheimer Award.
Fall 2017	Putnam Exam: 11pt
Spring 2017	Knowledge Bowl
2016	CSM Medal of Achievement in Math and Science

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 final engineering report, prototype, and presentation.

COURSEWORK

UNDERGRADUATE

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

Comp. Sci. Scholarship

For continuous 4.0 GPA

Competition for Ethics Related Papers in the NHV course
Mathematical Proof Competition
3rd in state competition.

Mines award for promising high schoolers.