JAMIE VOROS

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EDUCATION

The University of Colorado Boulder
PhD Aerospace Eng., expected May 2023
MS Computer Science - Data Science and Engineering, expected May 2022
MS Aerospace Eng., Aug 2020
GPA: 3.9/4.0

Massachusetts Institute of Technology
BS Aerospace Eng., Jun 2016
BS Architecture, Jun 2016
GPA: 4.6/5.0

ADVANCED SKILLS

Languages:
Python, SQL, Matlab
Analytics:
Pandas, Numpy, R, Jupyter Notebook, Scipy, Excel
Visualization:
Matplotlib, Pyplot, Ggplot2, Illustrator

INTERMEDIATE SKILLS

Tools:
Git, Bash

OTHER

USPA Skydive Coach
TEDxCherryCreek Speaker
MIT Varsity Crew (D1)
U17 England Lacrosse
UK Mathematics Trust Olympiad Medalist

EMPLOYMENT EXPERIENCE

Graduate Researcher
The Bioastronautics Laboratory, CU | Aug 2020 - Present
Python, Matlab, R, Git
- Primary job function: developing computational model of orientation perception and sensory cue processing in humans in team across 5 institutions
- Safety testing and controller design of heavy machinery used to tilt and translate human subjects

Graduate Researcher
The Bioastronautics Laboratory, CU | Jan 2019 - Aug 2020
Python, Matlab, R, Illustrator, Git
- Primary job function: designed experiment to test for changes in human perception with white noise within 10 person team
- Reduced experiment time by over 20% by identifying key sub-experiments via statistical analysis of simulated data
- Developed classifier which outperformed existing methods ($p<0.05$) by training logistic regression on simulated dataset
- First author paper on white noise resulting in improved visual thresholds submitted
- Communicated results of simulations, analysis, and experimental design to multi-disciplinary team on weekly basis
- Maintained schedule of goals, interdependencies and weekly responsibilities of ten person team

Graduate Researcher
ATLAS Institute, CU | Aug 2018 - Jan 2019
Matlab, R, Illustrator
- Primary job function: found human operator trust in navigational assistance systems is agnostic to perceived source
- Found significant ($p<0.05$) correlation between trust behavior and self-reported trust on difficult tasks
- Presented results of trust in automation study to multi-disciplinary audience at IEEE Aerospace Conference

Quantitative Trader
IMC Financial Markets, Chicago| Aug 2016 - Aug 2018
Python, Matlab, SQL
- Primary job function: designed and ran trading algorithms, yielded positive PnL
- Improved position management flow by developing automated position reporting tool, saving over 20 minutes per trading day
- Garden leave Sept 2017- Aug 2018