JAMIE VOROS

EDUCATION

Massachusetts Institute of Technology
BS Aerospace Engineering, 2016
BS Architecture, 2016
GPA: 4.6/5.0

The University of Colorado Boulder
MS Aerospace Engineering, 2020
MS Computer Science, expected May 2022
PhD Aerospace Engineering, expected 2023
GPA: 3.9/4.0

SKILLS

Extensive professional experience with

Languages
Python (scikit-learn, pandas), R, SQL, Matlab

Visualization
Python (matplotlib), R (ggplot), Adobe Illustrator, Adobe Photoshop, Rhino

OTHER

Licensed skydiver, U17 England Lacrosse, PADI Divemaster

CONTACT INFO

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Website: github.com/hamjamjam/

EMPLOYMENT EXPERIENCE

Graduate Researcher
The Bioastronautics Laboratory, CU | Jan 2019 - Present

- Interfaced with NASA TRISH to study benefits of stochastic resonance (SR) in astronaut like subjects
- Showed statistically significant ($p<0.05$) improvement in visual perception with vestibular white noise
- Optimized experimental procedures shown by reducing experimental time by over 50% via monte carlo simulations
- Developed classification method that outperformed existing methods ($p<0.05$) by using simulated data to train ML algorithm
- Built simulation and verified its accuracy with data from real humans by modelling response to white noise stimulation
- Mentored of team of 5 undergraduate research assistants
- First author peer reviewed conference publication at IEEE Aero
- First author peer reviewed journal paper in progress

Graduate Researcher
ATLAS Institute, CU | Aug 2018 - Jan 2019

- Made novel finding indicating trust in navigational assistance systems is agnostic to perceived source (human or algorithmic) by statistically analyzing multivariate human subject data
- Secondary finding that objective trust only matches self-reported trust in navigational assistance when the task is hard ($p<0.05$) by statistical analysis
- First author peer reviewed conference publication at IEEE Aero
- First author peer reviewed journal paper submitted to HFES

Quantitative Trader
IMC Financial Markets, Chicago| Aug 2016 - Aug 2018

- Effectively parameterized trading algorithms as shown by positive PnL by predictive modelling of market movement
- Automated ETF position management process by developing trades analysis and position reporting tools
- Garden leave Sept 2017- Aug 2018

Undergraduate Researcher, 3D Printing
Lab. for Atomistic & Molecular Mech., MIT| Jun 2015 - Sep 2015

- Designed and implemented system to 3D print artificial bone resulting in successful prints by adding pressure based extrusion system to a COTS plastic 3D printer
- Peer reviewed publication in JBME (80+ citations)