

Connor Pitchford

(321) 360-6830 | pitchfordconnor@gmail.com | www.connorpitchford.com | Mims, Florida

PROFESSIONAL SUMMARY

Highly motivated, results-driven Mathematical Sciences graduate student with experience in software programming (e.g., MATLAB, Fortran, C++) and model development. Excited about math application in the financial services industry. Aiming to leverage my skills and experiences!

EDUCATION

UNIVERSITY OF CENTRAL FLORIDA **Orlando, FL**
Master's in Mathematical Sciences *May 2022*
GPA: 3.25

FLORIDA INSTITUTE OF TECHNOLOGY **Melbourne, FL**
Bachelor's in Mathematical Sciences *2018*
GPA: 3.5; Presidential Scholarship

WORK EXPERIENCE

UNIVERSITY OF CENTRAL FLORIDA **Orlando, FL**
Graduate Teaching Assistant – Mathematics Advancement Learning Lab (MALL); Precalculus *Aug 2019 - Present*

- Taught precalculus course to 400 students and delivered MALL lectures to 120 students; Delivered lectures, graded assignments, held office hours to help with student outcome.

ACADEMIC PROJECTS

Rossmo's Formula – Model to predict where a criminal lives based on the locations of their crimes.

- Identified a novel application of Rossmo's Formula – Predict drug syndicate leader location based on drug dealers' location. Back-tested Rossmo's formula to Richard Chase (serial killer; crime dates: 1977 – 1978)
- Developed MATLAB code to represent Rossmo's Formula.

American Steel – Strategy project

- Built a comprehensive growth strategy for American Steel to increase steel and modular home sales; Conducted SWOT analysis and competitor analysis, developed marketing strategy, including product strategy, pricing, promotions, and distribution.
- Created strategy implementation plan that accounted for budgetary constraint, ROI, and tracked milestones and timelines. Identified and recommended early adopter markets (e.g., cities).

Simplex Method – Fastest and most efficient method for solving linear programming problems.

- Explored Tableau variation of the Simplex Method to better organize data, speed up time to perform computation by hand and reduce error rates.

Population Models – Explore population changes of species

- Designed MATLAB simulation to examine healthy/infected population changes using differential equations, mathematical modeling concepts, and phase-plan analysis.

SKILLS

- LaTeX, MATLAB, Fortran, C++, Project Management, Microsoft Office, Mathematics, Teaching, Public Speaking, 3D Printing, 3D Modeling, Writing

PREVIOUS WORK EXPERIENCE

- **Lowe's** – Customer Service Associate *Jun 2018 – Mar 2019; Jn 2017 – Feb 2018*
- **Melbourne High School** – Intern teacher *Jan 2018 – Apr 2018*