

MATTHEW R. LANDRY

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EDUCATION

Dartmouth College, Hanover, NH

June 2024; GPA 3.7/4.0

Bachelor of Arts, Major in Mathematical Data Science; Minor in Computer Science

Relevant Coursework: *Probability and Statistical Inference, Machine Learning and Statistical Data Analysis, Discrete*

Mathematics, Problem Solving via Object Oriented Programming, Data Visualization, Multivariable Calculus, Linear Algebra

Activities: Zeta Psi Rush Chairman, Zeta Psi Head Social Chairman, Zeta Psi Risk Manager, Aquinas House, Rock Climbing

Berlin High School, Berlin, NH

June 2020; Weighted GPA 106.19/100.00

Honors/Awards: Valedictorian, NH State Scholar (STEM), High Honors, NH Basketball Coach's Organization All Academic

Team, NHIAA and NHADA Scholar Athlete Award, American Mathematics Competition (First Place in School)

Activities: Senior Class President, National Honor Society Vice President, VEX Robotics Team Leader, Cross Country Captain,

Basketball Captain, Tennis, Track and Field, Band

RECENT WORK EXPERIENCE

Point72, Stamford, CT

June 2023-Aug 2023

Derivatives Trade Support Intern

- Supported the firm's macro trading desk by aiding in reconciling positions and resolving trade breaks
- Took initiative to automate various daily manual processes using Pandas, NumPy, and other related libraries in Python
- Worked on multiple daily tasks associated with the trade cycle of numerous derivative products

Mac Murchadha, Remote

Mar 2022-June 2022

Financial Research Intern

- Self-guided the construction of an RIA Outlook tracker that examined market strategies and positioning of numerous firms
- Maintained and distributed a job posting list primarily focusing on employment in the alternative investment space
- Attended meetings with investors and clients and kept records of investment plans

PROJECTS

Mathematics Department, Senior Culminating Experience, Dartmouth College

Nov 2022

Non-Gaussian Bayesian Update in High-Dimensional Space for Stock Prediction

- Constructed a model in Python that predicts stock prices based on past-price statistics and correlations to other stock prices
- Developed a modified version of Kalman Filtering in Python to act as a model refiner
- Additionally, added a unique form of Bayes' Theorem to the model to further enhance accuracy and prediction power

Mathematics Department, Topics in Applied Mathematics, Dartmouth College

May 2023

Community Detection from Betweenness Centrality based on Random Walks

- Examined the paper "A Measure of Betweenness Centrality Based on Random Walks" by M.E.J. Newman to construct a betweenness centrality calculation function based on the concept of random walks
- Using this function, developed and implemented a new community detection algorithm using NumPy, NetworkX, and other related packages within Python
- Constructed a detailed report outlining the overall algorithm, development process, and complications faced

Economics Department, Econometrics, Dartmouth College

Nov 2022

The Effects of a Minimum Wage Increase

- Used results to construct a report that examined the statistical significance of the regressions' "difference-in-difference" variables to reach a valid conclusion of how minimum wage increases affect employment, income, and rent
- Used coding through Stata, produced balance tests, a table of means, regressions, and other relevant graphs to find results

VOLUNTEERING ACTIVITIES

Knights of Columbus, Berlin, NH

Aug 2020-Present

Fourth Degree Knight

- Fundraised for the Special Olympics by participating in a roadside toll
- Served breakfast to low-income families in a free community breakfast

SKILLS & INTERESTS

Programming Experience: [Intermediate] Python, R, Java, Stata, C, C# [Beginner] HTML, Javascript, SQL, Bash

Technical Skills: Microsoft Word, Microsoft Excel, Microsoft PowerPoint, Computer Aided Design, Power Tools

General Skills: Leadership, Problem Solving, Data Analyzation and Manipulation, Timeline Management, Collaboration

Interests: Running, Basketball, Tennis, Pickleball, Climbing, Sailing, Airsofting, Board Games, Avid Disney Parks Lover