

Mitchell (Mitch) Verhelle

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EDUCATION

The University of Chicago

Master of Science in Financial Mathematics

Chicago, IL

Expected December 2025

- Maroon Scholarship
- Courses: Portfolio Theory & Risk Management, Python, Option Pricing, Probability & Stochastic Processes

Cornell University

Bachelor of Arts in Computer Science; Bachelor of Arts in Mathematics (GPA: 3.54)

Ithaca, NY

May 2024

- Courses: Probability, Statistical Decision Theory, Linear Algebra, Partial Differential Equations, Numerical Analysis & Differential Equations, Intro to Machine Learning, Extreme Values in Finance

SKILLS

Computing: C++, Python (SciPy, PyTorch, NumPy, Pandas), Java, Matlab, R, JMP, Excel

Knowledge: Financial Markets, Machine Learning, Statistical Modeling, Data Analysis, Data Structures and Algorithms

EXPERIENCE

Innovation Finance USA LLC

Rochester, NY

Finance Intern

July 2023 - September 2023

- Managed insurance certificate renewal requests & funding checklist for backlog accounts
- Collaborated with operations team to review credit approvals & improve customer experience
- Analyzed 125 customer support threads & proposed simplified organization system
- Learned credit scoring with Equifax, insurance procedures, and app updates in weekly meetings

Cornell Stable Isotope Lab

Ithaca, NY

Student Researcher/Lab Assistant (Part-Time)

August 2022 - June 2023

- Prepared & organized thousands of samples for isotope analysis
- Trained new lab workers on lab procedures and sample preparation tasks

Recly

Naples, FL

Software Engineering Intern

June 2022 - July 2022

- Employed the ERN stack (Express React Node.js) in ReclyApp
- Reconfigured in-app timing mechanism to work without bugs

AWARDS & ACTIVITIES

Honorable Mention | 2024 International Mathematical Contest in Modeling (MCM) | Team 2429345

COMAP, Inc

- Awarded Honorable Mention for placing in top 31% of participants worldwide
- Implemented Long Short-Term Memory (LSTM) and Random Forest models to predict momentum swings

1st Place | 2023/24 Cornell Mathematical Contest in Modeling | Team 11

Cornell University

- Optimized invasive species spread loss PDE & programmed agent-based model to validate solution

ACADEMIC PROJECTS

ORIE4656 Extreme Values in Finance - Final Project

Ithaca, NY

Analyzing XCMG and JPM Extremes

March 2024 - May 2024

- Devised robust analysis of extreme value distribution shape parameters in R earning a perfect score
- Compared shape parameters and extremal indices of two stocks in different industries

CS4780 Spring 2024 Kaggle Competition - Hearts

Ithaca, NY

Heart Disease Predictor

April 2024 - May 2024

- Placed 7th among 129 participants earning full extra credit points
- Implemented Adaboost Logistic Classifier and Extreme Gradient Boosting Decision Tree Classifier models with PCA to improve variance and bias