Eric M. Schmid Jr.

Email: eric.schmid@nyu.edu   Chicago, IL, USA   GitHub

Education

GCAS College   Dublin, Ireland

PhD in Mathematical Sciences
Topic: Mathematical Economics, Game Theory and Theoretical AI
Advisor: Fernando Tohmé
Expected November 2027

DePaul University   Chicago, IL

MS in Applied Mathematics
Expected March 2025, GPA: 4.0

Relevant Coursework:

- Current: Real Analysis II, Numerical Analysis I
- Completed: Real Analysis I, Finite-Dimensional Vector Spaces, Probability & Statistics I, Abstract Algebra I & II (i.e. a theoretical math sequence in group, ring, field theory), Point-Set Topology, Mathematical Modeling, Complex Analysis, Group Theory
- Independent Studies: Number Theory, Commutative Algebra, Category Theory, Mathematical Logic (Model Theory), Algebraic Topology

University of Chicago   Chicago, IL

Computer Science MS program
September 2023 - December 2023. **Only one quarter completed.**

Coursework: Introduction to Python Programming

New York University   New York, NY

BA in Individualized Study
Graduated December 2013, GPA: 3.59

Concentration: Continental Philosophy and Visual Art
Dean's List for Fall 2008 & Spring 2009
Minor: Mathematics
Mathematics Coursework: Calculus I-III, Statistics, Linear Algebra, Discrete Mathematics, Non-Euclidean Geometry

Professional Experience

Navier   October 2024 - Present

ML/Quantitative Analytics Research Associate   *Chicago, IL*
https://navier.com/

- Develop and implement machine learning models for cryptocurrency price forecasting using PyTorch and scikit-learn

- Design and optimize deep learning architectures for time series prediction
- Implement backtesting frameworks to evaluate model performance
- Conduct statistical analysis of market data using Python's data science stack
- Create automated data pipeline for real-time model updates and predictions

Bourbaki Capital   June 2023 - October 2024

Co-founder, Operations Officer & Junior Software Engineer   *Chicago, IL*

- Led a team of developers and analysts, setting team priorities
- Developed software using Python and interacted with Amazon AWS API
- Designed and implemented a websocket listener for market data
- Utilized Python library HFTbacktest for backtesting quantitative financial models

Infinite Horizons   December 2020 - June 2023

Business Analyst   *Prospect Heights, IL*

- Supported office administration and contributed to technology research
- Developed business models, analyzed data, and created customer presentations

Chicago.com   September 2016 - October 2016

Temporary Web Development Consultant   *Chicago, IL*

- Created a responsive navigation bar for website using HTML, CSS, Javascript, and JQuery
- Implemented improvements for social media integration and mobile experience

Raise.com   February 2016 - August 2016

Software Engineering Intern   *Chicago, IL*

- Completed software engineering coursework in Java, UNIX and SQL
- Developed various applications including a hangman game, karaoke jukebox and random sentence generator

Ben Schumacher Studio   January 2014 - October 2015

Production Manager   *New York, NY*

- Wrote material for grant proposals and press releases
- Oversaw the production of artworks for exhibitions
- Produced and assembled artworks for exhibitions

Chicago Sun-Times   May 2013 - August 2013

Web Development Intern   *Chicago, IL*

- Project-managed web development tasks
- Designed online advertisements and conducted e-commerce market research

- Wrote Chicago.com FAQ and provided IT support
- Managed mailing list with 30,000 subscribers

Technical Skills

- **Programming Languages: (fluent)** Python (PyTorch, scikit-learn, XGBoost, pandas, numpy, SciPy), UNIX, CSS, HTML
- **Fair:** Java, SQL, JavaScript
- **Beginner:** Haskell, Agda
- **Machine Learning:** Deep Learning, Time Series Analysis, Statistical Modeling
- **Mathematics:** Category Theory, Abstract Algebra, Topology, Analysis, Mathematical Logic

Publications and Academic Works

- "Economics of Targeted Drugs for Cancer," *Targeted Oncology*, April 2007 (Northwestern University Feinberg School of Medicine)
- *Prolegomenon to a Treatise*, Bauer Verlag, Frankfurt, 2022 (220 pages)
- "Some Brief Notes on Reza Negarestani's Intelligence & Spirit," *Triple Ampersand Journal*
- "Essay on Alain Badiou and Jacques Ranciere," *Yngve Holen – Trypophobia*, Distanz

Academic Activities

- Teaching Assistant for Linear Algebra at DePaul University
- Co-organizer, *Logic, the Methodology of Science and its Applications* Conference, Emily Harvey Foundation, New York
- Research Assistantship at DePaul University, Fall 2024
- Published conversation between Colin McLarty, PhD (Case Western) and Andrei Rodin, PhD (Lorraine) on my publishing imprint