

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

Self-Employed

October 2016 - June 2023

Professional Artist

Chicago, IL

- Exhibited in at prestigious galleries and museums across Europe and North America, including Kunsthalle Zürich, Vilma Gold (London), Neue Alte Brücke (Frankfurt), Croy Nielsen (Berlin), Svetlana (New York), Centralbanken (Oslo), Emily Harvey Foundation (New York), M. LeBlanc (Chicago) and Galleria Federico Vavassori (Milan).
- Published philosophical treatise on Bauer Verlag in 2022 entitled Prolegomenon to a Treatise
- Enrolled in Masters program in Mathematics at DePaul University starting September 2021

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