

Nicholas Wayne Geissler

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EDUCATION

New York University

2025 – present

PhD, Mathematics — Courant Institute of Mathematical Sciences

Johns Hopkins University

2021 – 2025

BS & MS, Applied Mathematics and Statistics; BS, Computer Science

Baltimore, MD

GPA: 4.0/4.0 · Naddor Prize recipient

Coursework: Graduate Statistics, Bayesian Statistics, Graduate Probability, Optimization, Numerical Linear Algebra, Algorithms, Data Structures, Time Series Analysis, Machine Learning, Random Matrix Theory

PROFESSIONAL EXPERIENCE

TransMarket Group LLC

May – August 2024

Quantitative Trader Intern — US Treasury Basis

Aguadilla, PR

- Market-made US Treasury bonds and on-the-run bond futures using a self-designed fading structure.
- Developed an automated market-making algorithm for bond futures in Python; backtested across multiple time periods with parameter optimization.
- Proposed two trading strategies to the desk based on statistical analysis; both are being further pursued.
- Completed TMG trading education program covering trading and market structure.

Merck & Co., Inc.

May 2023 – May 2025

Clinical Information Specialist (Data Science)

Rahway, NJ

- Developed methods for statistical analysis of Phase 1 clinical trial data in R and MATLAB.
 - Expanded existing algorithms to improve accuracy and account for covariates in two primary cancer indications.
 - Leveraged novel evaluation techniques to isolate confounding variables in responder populations.
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RESEARCH

Iterative Reweighted Least Squares for Time Series

January 2024 – May 2025

Advisors: Dr. Sergey Kushnarev, Dr. Christian Kümmerle — Johns Hopkins University

- Applied iterative projections to denoise time series, interpolate missing data, and forecast new data.
 - Received grant to extend the method to gravitational wave detection.
 - Formed the basis of MS thesis.
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TEACHING

Teaching Assistant — Honors Statistics

August 2023 – May 2025

Johns Hopkins University

Head Teaching Assistant — Honors Discrete Mathematics

January – May 2022

Johns Hopkins University

SKILLS

Programming: Python, MATLAB, R, Java, C++