

Patrick Williams

272 Glen Avenue, Glen Rock, New Jersey, 07452

201-707-1951 | patwilliams04@icloud.com | www.linkedin.com/in/patrick-williams0

EDUCATION

Lehigh University

Bethlehem, PA

Dual Degree Program- Physics (BA) & Economics (BS)

May 2023

Master of Science- MS, Business Analytics

Expected May 2024

- **GPA:** 3.8/ 4.0
- **Honors:** Director's Merit Scholarship, Collegiate Level National Honor Society, Malcolm Gordon Award winner: top-ranking sophomore majoring in Physics, Omicron Delta Epsilon Member: International Economics Honor Society, Dean's List all semesters offered.
- **Relevant Coursework:** Econometrics, Econometric Software, Applied Micro-econometrics, Statistical Modeling and Methods, Statistical and Machine Learning, Quantum Mechanics, Computational Physics, Derivatives and Risk Analysis, Data Science for Finance.

WORK & LEADERSHIP EXPERIENCE

Marsh McLennan

New York, NY

Finance, Innovation, and Technology (FIT) - Internship Program

Jun 2023 – Aug 2023

- Conducted research and engaged in conversations with business leaders to gain a deeper understanding of the reinsurance market.
- Aggregated, cleaned, and analyzed client level data of reinsurance contracts.
- Utilized existing machine learning algorithms to redefine the current revenue recognition process, with estimated increased revenue of \$55M over a 6Q period.

Lehigh University

Bethlehem, PA

Group Research – Physics Department

Jan 2023 – Jun 2023

- Used Python to create a machine learning algorithm.
- Provided the model with data on properties of materials to identify various characteristics of their behavior and how they interact.

Lehigh University

Bethlehem, PA

Independent Research – Economics Department

May 2022 – Jan 2023

- Organized, modeled, and analyzed national level datasets from public data sources.
- Used Microsoft Excel and the statistical software Stata to clean and aggregate data.
- Created a model of the geographic and socioeconomic mobility of college graduates.

The Ridgewood Country Club

Paramus, NJ

Caddy, Busser, Server

May 2022 – Present

- Served breakfast, caddied, and bussed tables at dinner.

Lehigh University

Bethlehem, PA

Research Assistant – Physics Department

May 2021 – Aug 2021

- Worked on optical hardware and fiber coupling with the goal to cool lithium ions, and study their behavior as a system in the Sommer Lab.
- Used Onshape to construct a Fabry Perot, assisted in designing schematics.

SKILLS, ACTIVITIES & INTERESTS

Technical Skills: Python, R, SQL, Tableau, Java, Onshape, Excel.

Interests: Problem solving, critical thinking, data analysis, advanced mathematics, statistical inference & modeling, quantitative research, predictive & quantitative analysis.

Activities: Golf, cooking, fishing, working out.