George Mitchell, PhD

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SUMMARY

Highly knowledgeable, skilled and experienced mathematical researcher with a keen interest in quantitative finance and markets. Detail-oriented with research experience at Microsoft, looking to solve dynamic problems with real world applications.

SKILLS

Programming: *Python, C++, R, SQL, Tableau*

Technical: *Data Science, Machine Learning, Quantitative Methods, Algorithmic Trading*

Soft Skills: *Teaching, Coaching, Presentations, MS Office*

EXPERIENCE

Research Intern, Microsoft **May – Sept 2022**
Improved computational efficiency by 40% by discovering a new result in elliptic curve cryptography.
Utilized Magma, Maple and Python to implement algorithmic improvements.

Data Science Coach, Modal Learning **Jan 2023 – Present**
Coaching and advising *Python for Data Science* course.

Adjunct Lecturer, Hunter College **Aug 2018 – May 2022**
Taught as instructor of record: *Calculus I, Calculus II, Elementary Statistics and Probability, College Algebra.*

Doctoral Candidate, City University of New York **Aug 2016 – Sept 2022**
Discovered and implemented the first Hurwitz trees for the group of quaternions acting on curves.

Student Researcher, Newcastle University **June – Sept 2015**
Wrote 30% new code and debugged 70% for a GAP package called *AutGrpOfPCG.*

COURSES AND CERTIFICATES

Data Science Bootcamp, Erdős Institute **Expected: June 2023**
Data Visualization Course, Erdős Institute **Expected: April 2023**
Beginning C++ Programming, Udemy **Completed: March 2022**

EDUCATION

PhD in Mathematics, CUNY **Sept 2022**
Dissertation: *The Local Lifting Problem for Curves with Quaternion Actions.*

Integrated MMath (Bachelor & Master of Mathematics), Newcastle University **June 2016**
Degree Class: *First with Honours (4.0 on GPA)*

AWARDS

Ernst & Young Award, Newcastle University **June 2016**
Outstanding academic achievement by a final year student in mathematics.

Barry Johnson Award, Newcastle University **June 2015**
Top performing third year student in the MMath programme.