## George Mitchell

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george-mitchell: 

New York, USA

New York, USA

## **SUMMARY**

College Algebra.

• Maintained overwhelmingly positive teaching evaluations.

Highly knowledgeable, skilled and motivated mathematical researcher with a keen interest in quantitative finance. Meticulous in detail and driven to solve dynamic problems with real world applications.

- Strong interest in Finance, Algorithmic Trading and Quantitative Research.
- Exposure to algorithmic trading techniques in Python: pulling market data from APIs, manipulating data using NumPy and Pandas, visualizing data with Matplotlib and Seaborn.
- A strong academic background in Mathematics and Statistics, including awards for highest performing student in the final three years of undergraduate study.

EDITCATION	SKILLS
EDUCATION  PhD in Mathematics  The Graduate Center, City University of New York, New York, NY  Dissertation: The Local Lifting Problem for Curves with Quaternion Actions	Python C++
Integrated MMath (Bachelor's & Master's in Mathematics)  Newcastle University, Newcastle Upon Tyne, UK Thesis: Galois Groups over the Rational Numbers Degree Class: First with Honours (4.0 GPA)  Online Courses:  Beginning C++Programming Udemy Introduction to Financial Engineering and Risk Management Columbia University Introduction to Data Science in Python University of Michigan	Stochastic Calculus  Data Science  Statistics  Probability
RESEARCH EXPERIENCE  Research Intern, Microsoft  • Discovered a new result in elliptic curve cryptography which reduced some required computations by 40%.  • Implemented the algorithmic speed-up in computer algebra software Magma/Maple.  Doctoral Candidate, CUNY  • Discovered and implemented the first ever Hurwitz trees for the group of quaternions.  • Increased the algebraic geometry PhD throughput at CUNY by 10%.	Research  Linear Algebra  Quantitative Methods  Algorithmic Trading
PROGRAMMING EXPERIENCE  Data Science Coach, Modal Learning  • Coaching and advising Python for Data Science course.  Student Researcher, Newcastle University  • Wrote and tested approximately 30% new code for a GAP (Groups, Algorithms, Programming) package called AutGrpOfPCG, and debugged the other 70%.	Machine Learning  Pandas  NumPy SciPy
TEACHING EXPERIENCE  Adjunct Lecturer, Hunter College, New York  • Taught as instructor of record: Calculus I, Calculus II, Elementary Statistics and Probability,	Excel Teaching