

Lucas Bouck

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Education

George Mason University
B.S., Mathematics, May 2018 (Expected)
Minor: Computer Science
Overall GPA: 3.98
Math GPA: 4.00

Math Coursework

George Mason University
Calculus I and II (AP Credit), Calculus III (A+), Discrete Mathematics (A+), Linear Algebra (A+), Differential Equations (A+), Intro to Advanced Math (A+), Numerical Analysis I (A+), Numerical Analysis II (A), Advanced Calculus I (A+), Advanced Linear Algebra (A+), Abstract Algebra (A+), Modern Applied Math I (A+), Intro to Partial Differential Equations with Numerical Methods (A+)

Other Relevant Coursework

George Mason University
Probability and Statistics for Engineers and Scientists I and II (A), Intro to Computer Programming (A+), University Physics I (A+), General Chemistry I and II (AP Credit)

Current Coursework

George Mason University
Advanced Calculus II, Functions of a Complex Variable,
Graduate Course in Calculus of Variations, Object Oriented Programming

Research Experience

Department of Mathematical Sciences, George Mason University
January 2016-Present
Currently conducting NSF funded research in applied mathematics on modeling quantum random walks with partial differential equations, under the mentorship of Dr. Harbir Antil.

Conferences & Publications

Shenadoah Undergraduate Math and Statistics Conference
September 2016
Title: "Introducing Fractional Dynamics to Quantum Random Walks"
Gave a talk on my research at James Madison University.

Joint Math Meetings Student Poster Session
January 2017
Title: "Introducing Fractional Dynamics to Quantum Random Walks"
Presented a poster to judges at the Joint Math Meetings in Atlanta, GA.

Roosevelt Institute's Ten Ideas: Economic Development
Spring 2016
Title: "Supporting Scholars: Rent Relief for Students in Fairfax City"
Wrote a policy proposal with two co-authors on implementing a student rent relief program in Fairfax City that mirrors their current program for seniors.

Work Experience	Math Tutor, George Mason University August 2016-Present Tutor students in math and physics courses ranging from lower to upper-level.
	Grader, George Mason University September 2015-December 2015 Graded quizzes for Dr. Geir Agnarsson's Discrete Math Class
Awards & Societies	University Scholarship August 2014 George Mason University's highest value and most prestigious scholarship.
	Amer Bešliagić Award April 2016 Awarded for performance in math classes during first two years at GMU.
	Outstanding Poster Award January 2017 Awarded to the top 15% of posters based on judges' scores in each topic area at the student poster session at the 2017 Joint Math Meetings.
	Dean's List Fall 2014-Fall 2016
	Phi Kappa Phi Member April 2016
	Golden Key Society Member October 2015
Research Interests	Eagle Scout December 2012
	Partial Differential Equations, Numerical Analysis
Technical Skills	Python, Matlab, L ^A T _E X, Mathematica, HTML, Bash, Minitab, Microsoft Suite, Java