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	**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. **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. **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	**Learning Assistant, George Mason University**
	January 2017-Present
	Assist students in learning the material for Dr. Rebecca Goldin's Calculus III class.
	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	**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.
	Amer Bešlagić Award
	April 2016
	Awarded for performance in math classes during first two years at GMU.
	University Scholarship
	August 2014
	George Mason University's highest value and most prestigious scholarship.
	Dean's List
	Fall 2014-Fall 2016
	Phi Kappa Phi Member
	April 2016
	Golden Key Society Member
	October 2015
	Eagle Scout
	December 2012
Research Interests	Partial Differential Equations, Numerical Analysis
Technical Skills	Python, Matlab, LaTeX, Mathematica, HTML, Bash, Minitab, Microsoft Suite, Java