Lucas Bouck

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Education	**University of Maryland, College Park** Applied Math, Statistics, and Scientific Computing Program, (Currently Attending) **George Mason University** B.S., Mathematics, May 2018 with Honors in the Major and Summa Cum Laude
Research Interests	Partial Differential Equations, Numerical Analysis, PDE-Constrained Optimization
Publications	Ian H. Bell, Bradley K. Alpert, and Lucas Bouck. "ChebTools: A C++11 (and Python) Library for Working with Chebyshev Expansions." *Journal of Open Source Software.* 2018.

Invited Talks

Student Research Talks (StReeTs)
George Mason University, Fairfax, VA, February 2018
Title: "Chebyshev Polynomials: Background and Root Finding in 2-D"

SIAM Central States Section Meeting Mini Symposium
Colorado State University, Ft. Collins, CO, September 2017
Title: "Fractional Dynamics for Quantum Random Walks"

Applied and Computational Math Seminar Talk
George Mason University, Fairfax, VA, September 2017
Title: "Root Finding with Chebyshev Polynomials in Two Dimensions"

Summer Undergraduate Research Fellowship Colloquim Talk
National Institute of Standards and Technology, Boulder, CO, August 2017
Title: "Root Finding with Chebyshev Polynomials in Two Dimensions"

Invited Seminar Talk
Naval Research Lab, Washington, D.C., May 2017
Title: "Fractional Dynamics for Quantum Random Walks"

Extreems-Qed Undergraduate Research Conference
University of William and Mary, Williamsburg, VA, March 2017
Title: "Fractional Dynamics for Quantum Random Walks"

Shenadoah Undergraduate Math and Statistics Conference
James Madison University, Harrisonburg, VA, September 2016
Title: "Introducing Fractional Dynamics to Quantum Random Walks"

Posters

SciPy Conference 2018 Poster Session
Austin, TX, July 2018
Title: "Chebyshev Expansions: Background and Computing in the C++/Python Library ChebTools"

Joint Math Meetings 2018 Student Poster Session
San Diego, CA, January 2018
Title: "Root Finding with Chebyshev Polynomials in Two Dimensions"

Joint Math Meetings 2017 Student Poster Session
Atlanta, GA, January 2017
Title: "Introducing Fractional Dynamics to Quantum Random Walks"

Events Attended	**Nonlocal School on Fractional Equations** Iowa State University, Ames, IA, August 2017 Attended a three day summer school on fractional order partial differential equations.
Education Experience	**Learning Assistant, George Mason University** January 2017-May 2017 Hold office hours and teach students supplementary material for a 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 a Discrete Mathematics Class
Awards and Funding	**NSF Graduate Research Fellowship** May 2018 **Brin Fellowship** May 2018 **Klaus Fischer Academic Achievement Award in Mathematics** May 2018 Awarded for performance in math classes at GMU. **Goldwater Scholarship Honorable Mention** March 2017 Received an honorable mention for the most prestigious undergraduate scholarship in the natural sciences, mathematics, and engineering in America. **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 undergraduate scholarship. **Dean's List** Fall 2014-Spring 2018
Technical Skills	Python, C++, Java, LaTeX, MATLAB