Lucas Bouck

Email: lbouck@gmu.edu **Cell Phone**: (303) 990-3367
Personal Website: http://lbouck.github.io

Education

University of Maryland, College Park
Applied Math, Statistics, and Scientific Computing Program, (Start in August 2018)
George Mason University
B.S., Mathematics, May 2018
with Honors in the Major and Summa Cum Laude

Research Interests

Partial Differential Equations, Numerical Analysis

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

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