

# Shashank Sule

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CONTACT INFORMATION	1304 William E. Kirwan Hall 4176 Campus Drive University of Maryland College Park, MD 20740-4015	ssule25@umd.edu
EDUCATION	<b>University of Maryland, College Park</b> Ph.D. candidate in Applied Mathematics, Statistics, and Scientific Computation <b>Amherst College</b> A.B. Mathematics, <i>summa cum laude</i> Thesis: Two Multiresolution Frameworks on Graphs <b>Massachusetts Institute of Technology</b> Special Student in the Mathematics Department <b>Budapest Semesters in Mathematics</b>	2020–2025  2016–2020  Spring 2019  Fall 2018
RESEARCH INTERESTS	Applied Harmonic Analysis, Machine Learning, Spectral Graph Theory	
PUBLICATIONS	<i>Sobolev Orthogonal Polynomials on the Sierpinski Gasket</i> (Journal of Fourier Analysis and Applications, 2021). Qingxuan Jiang, Tian Lan, Kasso Okoudjou, <b>Shashank Sule</b> , Robert Strichartz, and Sreeram Venkat, and Xiaoduo Wang.	
TALKS	<b>Joint Mathematics Meetings 2020</b> AMS Contributed Session on Functional Analysis, Operator Theory, and Operator Algebras I <b>University of Maryland</b> Norbert Wiener Center RIT Deep Learning RIT Machine Learning for rare events RIT Student PDE seminar <b>Southeastern Undergraduate Mathematics Workshop</b> Georgia Institute of Technology	Jan. 2020   Sept. 2021 Dec. 2021 Dec. 2021 Apr. 2022 Aug. 2019
POSTERS	<b>Universita di Genova</b> Applied Harmonic Analysis and Machine Learning Summer School <i>Error analysis of Target Measure Diffusion Maps on <math>\mathbb{R}^d</math></i> <b>Ohio State University</b> Young Mathematicians Conference <i>Sobolev Orthogonal Polynomials on the Sierpinski Gasket</i> <b>Amherst College</b>	Sept. 2022  Aug. 2019  Aug. 2018

Annual Summer Research Symposium  
*Normality of Toric Rings and Rees Algebras of Strongly Stable Ideals*

AWARDS & FELLOWSHIPS	Jacob K. Goldhaber Travel Grant: \$1200	Sept. 2022
	Michael Brin Graduate Fellowship	Aug. 2020–Jun. 2024
	Dean’s Fellowship, University of Maryland	Aug. 2020–Jun. 2022
	The Robert H.Breusch Prize for the best undergraduate thesis in Mathematics and Statistics	May 2020
	The Walker Award in Mathematics and Statistics	May 2020
	Amherst Memorial Fellowship	Aug. 2020–Jun. 2021
	Loeb Center Summer Experience Fellowship	Jun. 2019
	Sarles Fellowship, Amherst College	Jun. 2018
	Gregory S. Call Academic Internship	Aug. 2017–May 2018
	Davis United World College Scholarship	Aug. 2016–May 2020
	First Place and Outstanding Award in SCUDEM 2018	Apr. 2018
ACTIVITIES & EMPLOYMENT	<b>Co-organizer, Research Interaction Team</b>	Sept. 2022
	Machine Learning for Rare Events	
	<b>Co-organizer, Research Interaction Team</b>	Feb. 2022
	Deep Learning	
	<b>Research Assistant</b>	Aug, 2021-May 2022
	UMD Mathematics Department	
	<b>Research Assistant</b>	Summer 2021
	Centre for Bioinformatics and Computational Biology	
	<b>Cornell University SPUR/REU</b>	Summer 2019
	Analysis on Fractals	
	<b>Amherst College SURF</b>	Summer 2018
	Algebraic Geometry	
	<b>Research Assistant</b>	Aug. 2017– May 2018
	Economics Department, Amherst College	
	<b>Co-Chair</b>	Spring 2018
	Amherst College International Students’ Association	
	<b>Treasurer</b>	Spring 2017
	Amherst College South Asian Students’ Association	
	<b>Staff Writer</b>	Fall 2017
	The Indicator	
	<b>Support Facilitator</b>	Jun. 2015, 2016, 2017
	UWC Mahindra College	
TEACHING EXPERIENCE	<b>Teaching Assistant, Amherst College</b>	
	• MATH 250–Number Theory	Spring 2020
	• MATH 320–Wavelets and Fourier Analysis	Fall 2019

- MATH 220—Mathematical Reasoning and Proof Fall 2019
- ECON 330—Macroeconomics Spring 2018
- CHEM 160—Chemical thermodynamics Fall 2017

SKILLS AND  
LANGUAGES

MATLAB, Julia, Mathematica, Python, R

Github: <https://github.com/ShashankSule>

English (native), Marathi (native), Hindi (native), Spanish (reading and writing proficiency), Hungarian (reading proficiency)