Avi Mukhopadhyay

Education	 Department of Mathematics, University of Florida <i>Ph.D. in Mathematics</i> Advisor: Dr. Frank Garvan Research area: Number Theory and Modular forms 	Gainesville, USA 2021 - Present	
	 Department of Mathematics, Indian Institute of Technology(IIT) M.Sc In Mathematics Advisor: Dr. Akshaa Vatwani Thesis Title: Least Prime in an Arithmetic Progression Elliptic Curve 	Gandhinagar 2019 - 2021 es and Modular	
	Forms Department of Mathematics. Presidency University	Kolkata. India	
	B.sc in Mathematics	2015 - 2018	
Publications	1. (with F. Garvan) Some new identities for the Andrews' spt function, in preparation		
	2. (with A. Dhar, R. Gupta and R. Sarma) TBA, in preparation		
	3. (with F. Garvan) <i>Transformation of third order mock theta functions and new q-series identities</i> , in preparation		
	4. (with A. Dhar and R. Sarma) On new minimal excludants of overpartitions related to some <i>q</i> -series of Ramanujan, accepted in the Bulletin of Australian Mathematical Society		
	5. (with A. Dhar) A bijective proof of an identity of Berkovich and Uncu, accepted in Sémi- naire Lotharingien de Combinatoire		
	6. (with A. Dhar and R. Sarma) <i>Generalization of the Extended Minim</i> <i>Andrews and Newman</i> , J. Integer Sequences, 26, 2023, Article 23.3.7	al Excludant of	
Employment	Graduate Teaching Assistant Department of Mathematics, University of Florida Gainesville, FL, USA	2021 - Present	
Awards and Honors	UF College of Liberal Arts and Sciences (CLAS) Graduate Travel Award <i>To attend and speak at SASTRA-Ramanujan Award ceremony and Interna</i> <i>on Number Theory</i>	tional Conference 2024	
	Chat Yin Ho Scholarship Outstanding graduate student of the year, Department of Mathematic Florida	cs, University Of 2024	
	Third Prize in Math Slam Competition, Department of Mathematics, University Of Florida	2024	
	Teaching Assistantship Department of Mathematics, University Of Florida	2021-Present	

	Instructor of Survey of Calculus II (MAC2234) Fall 2024
Experience	Instructor for Trigonometry (MAC1114). Summer 2024
	Re-organizing and creating new content for Basic College Algebra (MAC1147), Spring 2024
	TA for Analytic Geometry and Calculus III (MAC2313), Fall 2023
	TA for Precalculus Algebra and Trigonometry(MAC1147), Summer 2023
	TA for Analytic Geometry and Calculus II (MAC2312), Spring 2023
	TA for Analytic Geometry and Calculus I (MAC2311), Fall 2022
	TA for Computational Linear Algebra (MAS3114), Summer 2022
	TA for Analytic Geometry and Calculus I (MAC2311), Spring 2022
	TA for Analytic Geometry and Calculus I (MAC2311), Fall 2022
	Mark Thata Transformations without Watson
AND Presentations	Seminar in Partition Theory, q-Series and Related Topics (Zoom) 16th January , 2025
	Transformations and Identities for Mock Modular forms
	SASTRA-Ramanujan Award ceremony and International Conference on Number Theory, Kumbakonam, Tamil Nadu, India 21st December, 2024
	Mock Theta Transformations without Watson
	Invited Talk at the Special Session on partitions and q-series, AMS 2024 Fall Southeastern Sectional Meeting, Georgia Southern University, USA 6th October, 2024
	Mock Theta Transformations wihtout Watson
	Poster presentation at The Legacy of Ramanujan Conterence-Celebrating the 85th birthdays

Poster presentation at The Legacy of Ramanujan Conference-Celebrating the 85th birthdays of George E. Andrews and Bruce C. Berndt, Department of Mathematics, Penn State University, USA 8th June, 2024

A New Proof of Zwegers' Theorem

Invited Talk at the GANIT Seminar, Department of Mathematics, IIT Gandhinagar, India 25th April, 2024

A bijective proof of an identity of Berkovich and Uncu

Invited Talk at the UT Tyler Number Theory and Combinatorics Seminar (Zoom), Department of Mathematics, University Of Texas at Tyler, USA 24th October, 2023

A bijective proof of an identity of Berkovich and Uncu

Invited Talk at the UF Number Theory Seminar, Department of Mathematics, University Of Florida, Gainesville, USA 3rd October, 2023

Service and	Volunteered for Math Fest 2025, University of Florida's annual outreach program at the Department of Mathematics	
Outreach	Organizer of the Graduate Mathematics Association Colloquium at University of Florida (2024-25)	
	Vice President of the Graduate Mathematics Association at University of Florida (2024-25)	
	Volunteered for Math Fest 2024, University of Florida's annual outreach program at the Department of Mathematics	
	Organizer of the Graduate Mathematics Association Colloquium at University of Florida (2023-24)	
	Vice President of the Graduate Mathematics Association at University of Florida (2023-24)	
	Volunteered for Mathegon 2020, IIT Gandhinagar's annual outreach program at the Department of Mathematics	
	Represented Presidency University at the Inter-College Poster making Competition at Inter-college Mathematics poster-making competition at RKM Vidyamandira, Belur, India in 2017.	
	Represented Presidency University, Kolkata at West Bengal Science Technology Congress Fair by presenting a model and proof of Pick's Theorem in 2017.	
Skills	Languages: English, Hindi, Bengali	
	Software Skills: Python, C, MATLAB, Maple	
	Technical tools: LaTeX, MS-Word, MATLAB, MS-Excel	