Badri Vishal Pandey

CONTACT INFORMATION	Dept. of Mathematics University of Virginia Charlottesville, VA 22904	(669) 226-7426 badrivishal9451@gmail.com bp3aq@virginia.edu

RESEARCH INTERESTS   Analytic and Algebraic Number Theory

EDUCATION

University of Virginia, Charlottesville, VA

PhD July, 2019-Present.

- *Mathematics*
  Thesis advisor: **Ono, Ken**
  Thomas Jefferson Professor of Mathematics and Chair, Department of Mathematics, University of Virginia.

Indian Statistical Institute, Bangalore, India

M.Math July, 2017-2019.

- *Mathematics*

Indian Statistical Institute, Bangalore, India

B.Math(Hons.) July, 2014-2017.

- Major: *Mathematics*

PAPERS AND PUBLICATIONS

- Modular forms and Ellipsoidal T-designs, The Ramanujan Journal

- Inversion Formulas for the j-function Around Elliptic Points (Co-author: De Las Penas Castano A), Archiv der Mathematik

- Higher Order Turán Inequalities for the Plane Partition Function (in preparation)

TALKS

- Inversion of the Modular j-function   May, 2022
  NISER, Bhubneswer

- Ellipsoidal T-design   December 17, 2020
  18th Nagoya combinatorial seminar

- Lightning Rounds by graduate students,   March 03, 2020
  UVA Undergraduate Math Club

TEACHING EXPERIENCE	• *Mentor for Directed Reading Program at University of Virginia,* Fall 2022
	• *Teaching Assistant for Research Experiences for Undergraduates at the University of Virginia,* Summer 2020
	• *Teaching Assistant for Research Experiences for Undergraduates at the University of Virginia,* Summer 2021
	• *Teaching Assistant for Research Experiences for Undergraduates at the University of Virginia,* Summer 2022
	• *Instructor for Math 1220, A survey of calculus 2,* Fall 2021
	• *Instructor for Math 1220, A survey of calculus 2,* Spring 2021
	• *Instructor for Math 1210, A survey of calculus 1,* Fall 2020
	• *Teaching Assistant for Math 3250, Ordinary Differential Equations,* Spring 2020
	• *Grader for Math 3310, Basic Real Analysis,* Spring 2020
	• *Teaching Assistant for Math 2310, Calculus III,* Fall 2019
	• *Grader for Math 4651, Advanced Linear Algebra,* Fall 2019
CONFERENCES AND WORKSHOPS	• *100 Years of Mock Theta Functions (attended virtually),* May 22-24, 2022
	• *Virginia Mathematics Lecture: Mikhail Khovanov (Columbia)* April 18-20, 2022
	• *Virginia Mathematics Lecture: Curtis McMullen (Harvard)* November 8-10, 2021
	• *Virginia Mathematics Lecture: Greg Lawler (UChicago)* February 12-14, 2020
	• *Virginia Mathematics Lecture: Peter Sarnak (IAS Princeton)* November 4-9, 2019
	• *Advanced Instructional School on Topology,* May 2018 National Board of Higher Mathematics
	• *Algebraic Geometry,* Dec 2017 Indian Statistical Institute

ACHIEVEMENTS AND SCHOLARSHIPS		
Among top 100 TIFR Graduate School Admissions Written Exam	2019
Rank 46 CSIR UGC National Eligibility Test	2018
Academic fellowship for excellent performance BMath Third year	2017
Academic fellowship for being second rank holder BMath First year	2014
Ranked 21 out of 150,000 candidates Uttar Pradesh State Engineering Entrance Exam	2014

REFEREEING

- *International Journal of Number Theory*

- *Research in Number Theory*

- *The Ramanujan Journal*

EXTRACURRICULAR ACTIVITIES

• *ISI intra-college Cricket tournament winner*, Indian Statistical Institute, Bangalore center	2018
• *ISI intra-college Soccer tournament winner*, Indian Statistical Institute, Bangalore center	2015 & 2017
• *Sports Committee Member*, Indian Statistical Institute, Bangalore center	2015
• *Mentor of first year undergrad*, Indian Statistical Institute, Bangalore center	2015

TECHNICAL SKILLS

Sage(elementary), Python(elementary), Mathematica, Octave, LateX, C, C++, html