

# Badri Vishal Pandey

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## CONTACT INFORMATION

Dept. of Mathematics  
University of Virginia  
Charlottesville, VA 22904

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## 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), submitted
- Hyperbolicity of the Plane Partition Jensen Polynomials (in preparation)

## TALKS

- Inversion of the Modular  $j$ -function  
NISER, Bhubneswer May, 2022
- Ellipsoidal  $T$ -design  
18th Nagoya combinatorial seminar December 17, 2020
- Lightning Rounds by graduate students,  
UVA Undergraduate Math Club March 03, 2020

## TEACHING EXPERIENCE

- *Teaching Assistant for Research Experiences for Undergraduates at the University of Virginia*, Summer 2020-22
- *Instructor for Math 1220, A survey of calculus 2*, Fall 2021
- *Instructor for Math 1220, A survey of calculus 2*, Spring 2021

	<ul style="list-style-type: none"> <li>• <i>Instructor for Math 1210, A survey of calculus 1,</i> Fall 2020</li> <li>• <i>Teaching Assistant for Math 3250, Ordinary Differential Equations,</i> Spring 2020</li> <li>• <i>Grader for Math 3310, Basic Real Analysis,</i> Spring 2020</li> <li>• <i>Teaching Assistant for Math 2310, Calculus III,</i> Fall 2019</li> <li>• <i>Grader for Math 4651, Advanced Linear Algebra,</i> Fall 2019</li> </ul>
CONFERENCES AND WORKSHOPS	<ul style="list-style-type: none"> <li>• <i>Advanced Instructional School on Topology,</i> May 2018 National Board of Higher Mathematics</li> <li>• <i>Algebraic Geometry,</i> Dec 2017 Indian Statistical Institute</li> </ul>
ACHIEVEMENTS AND SCHOLARSHIPS	<p><i>Among top 100</i> 2019 TIFR Graduate School Admissions Written Exam</p> <p><i>Rank 46</i> 2018 CSIR UGC National Eligibility Test</p> <p><i>Academic fellowship for excellent performance</i> BMath Third year 2017</p> <p><i>Academic fellowship for being second rank holder</i> BMath First year 2014</p> <p><i>Ranked 21 out of 150,000 candidates</i> 2014 Uttar Pradesh State Engineering Entrance Exam</p>
REFEREEING	<ul style="list-style-type: none"> <li>• <i>International Journal of Number Theory</i></li> <li>• <i>Research in Number Theory</i></li> <li>• <i>The Ramanujan Journal</i></li> </ul>
EXTRACURRICULAR ACTIVITIES	<ul style="list-style-type: none"> <li>• <i>ISI intra-college Cricket tournament winner,</i> 2018 Indian Statistical Institute, Bangalore center</li> <li>• <i>ISI intra-college Soccer tournament winner,</i> 2015 &amp; 2017 Indian Statistical Institute, Bangalore center</li> <li>• <i>Sports Committee Member,</i> 2015 Indian Statistical Institute, Bangalore center</li> <li>• <i>Mentor of first year undergrad,</i> 2015 Indian Statistical Institute, Bangalore center</li> </ul>
TECHNICAL SKILLS	Sage(elementary), Python(elementary), Mathematica, Octave, LaTeX, C, C++, html