

# 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, (accepted)
- Inversion Formulas for the  $j$ -function Around Elliptic Points (Co-author: De Las Penas Castano A), submitted

## TALKS

- Ellipsoidal T-design  
18th Nagoya combinatorial seminar  
December 17, 2020
- Lightning Rounds by graduate students,  
UVA Undergraduate Math Club  
March 03, 2020

## TEACHING EXPERIENCE

- *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

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