

# Curriculum Vitae

Pranabesh Das

Department of Mathematics  
Xavier University of Louisiana, New Orleans, LA

[pdas@xula.edu](mailto:pdas@xula.edu)  
[Homepage](#)

## Personal Information

**Nationality:** Indian  
**Gender:** Male  
**Languages:** English, Bengali, Hindi, Spanish.

## Academic Employment

**Xavier University of Louisiana, New Orleans, Louisiana**  
Assistant Professor, Tenure-Track  
September 2022-Current

**Dalhousie University, Halifax, Canada**  
AARMS Postdoctoral Fellow, July 2021 - August 2022, supported by  
**Atlantic Association for Research in the Mathematical Sciences(AARMS).**

**University of Waterloo, Canada**  
Postdoctoral Fellow, Department of Pure Mathematics, June 2018 - June 2021.

**Universite Pierre and Marie Curie (Paris VI), Paris, France**  
Visiting Postdoc, Sept - Nov 2017

**The Institute of Mathematical Sciences (IMSc), Chennai, India**  
Postdoctoral Fellow in Mathematics, 2017-2018.

## Education

**Indian Statistical Institute, Delhi, India**  
Ph.D., Mathematics, 2018.  
Thesis Title: Perfect Powers in Certain Diophantine Equations  
and Recurrence Sequences.  
Topic: Number Theory.

**Ramakrishna Mission Vivekananda University, West Bengal, India**  
M.Sc., Mathematics, 2011.

**University of Calcutta, Kolkata, India**  
B.Sc., Mathematics (Hon's), 2008.

## Research Interest

**Number Theory**  
Diophantine Equation: Modular Method, Linear forms in Logarithms  
Diophantine Approximation: Thue Equations, Hypergeometric method  
Transcendental Number Theory: Mahler method  
Recurrence Sequences  
Elliptic Curve Cryptography

## Publications

### [Powers in product of terms of Pell's and Pell Lucas sequences](#)

*International Journal of Number Theory* **11** (2015), no.4, 1259-1274.

Authors: Bravo J.J., Das P., Guzman S. and Laishram S.

### [Invitation to integral and rational points on curves and surfaces](#)

#### **Rational points, rational curves and entire holomorphic curves on projective varieties**

*Contemp. Math.*, **654**(2015), Centre Rech. Math. Proc., Amer. Math. Soc.

Authors: Das P. and Turchet A.

### [Variants of Erdős-Selfridge superelliptic curves and their rational points](#)

*Mathematika*, **64** (2018), no. 2, 380-386.

Authors: Das P., Laishram S. and Saradha N.

### [Cubes in product of terms from an Arithmetic Progression](#)

*Acta Arithmetica*, **184** (2018) , no. 2, 117-126.

Authors: Das P., Laishram S. and Saradha N.

### [Sums of \$f\$ th powers being a perfect power: A special case](#)

*J. Ramanujan Math. Soc.*, **35** (1), 1-11, (2020).

Authors: Das P., Dey P.K., and Rout S.S.

### [Perfect powers in alternating sum of consecutive powers](#)

*Glasnik Matematikcki* , **55** (75), 37-53 (2020).

Authors: Das P., Dey P.K., Maji B., and Rout S.S.

### [Repdigits in Narayana's Cows sequence and their consequences](#)

*Journal of Integer Sequences*, vol **23**(2020), no. 8, Art. 20.8.7.

Authors: Bravo J.J., Das P. and Guzman S.

Work in  
Progress

**Algebraic Independence of certain rational functions**  
Authors: Das P. and Philippon P.  
In Preparation.

External  
Research Grants

Awarded a competitive funding of worth 50000\$ from the **Atlantic Association for**

Refereed Journals	Refereed articles in The Ramanujan Journal, Integers, MathSciNet, and Communications in Mathematics.
Membership	Member of the Canadian Mathematical Society.
Seminars	<p><b>TBD</b> 2022- 2023 Ottawa/Carleton Number Theory Seminar(Invited) (Upcoming) October 26, 2022.</p> <p><b>Some interesting superelliptic curves and their rational solutions</b> ISI Delhi Web Seminar (Invited), Jan 19, 2021, Indian Statistical Institute, Delhi, India. Mathematics Webinar (Invited), Dec 4, 2021, BITS Pilani, Hyderabad, India. Mathematics Colloquium (Invited), Nov 4, 2021, Dalhousie University, Halifax, Canada.</p> <p><b>Fermat's Theorem: Past, Present and Future</b> Honours seminar, Oct 13, 2021, Dalhousie University, Halifax, Canada.</p> <p><b>Rational points on certain super elliptic curves</b> Arithmetic Geometry Seminar (Invited), April 9, 2021. National and Kapodistrian University of Athens, Athens, Greece</p> <p><b>Teorema de Fermat: Pasado, Presente y Futuro</b> Seminario MATDIS (Invited), Universidad del Cauca, Colombia, Sept, 2020.</p> <p><b>Repdigits in Narayana's cows sequence and its consequences</b> IIIT Delhi, June 2019</p> <p><b>Erdős- Selfridge superelliptic curves and their rational points</b> Universidad Del Cauca, Popayan, Colombia, Dec, 2018 (Invited Colloquium).</p> <p><b>Variants of Erdős- Selfridge superelliptic curves and their rational points</b> University of Pierre and Marie Curie, Paris VI, France, 16th Oct, 2017. Number Theory Seminar (Invited), University of Waterloo, Canada, Oct, 2018.</p> <p><b>On variations of Shifted Schaefer's Equation</b> University of Pierre and Marie Curie (Invited), Paris VI, France, 29th Sept, 2016. University of Debrecen (Invited), Hungary, 21st Oct, 2016.</p> <p><b>On Some Equations Involving Binary Recurrence Sequences</b> Indian Statistical Institute, Delhi, August,2015.</p> <p><b>On Ramanujan-Nagell Equation</b> Indian Statistical Institute, Delhi, August,2014.</p> <p><b>On Roth's Theorem and Its Applications</b> Indian Statistical Institute, Delhi, August,2013.</p>
Workshops and Conferences	CMS Winter Meeting, Toronto, Canada Dec 2019

## Workshops and Conferences

**Discussion Meeting on Analytic Number Theory, TIFR, Mumbai, India**  
Jan 2015.

**AIS on Algebraic Number Theory, Chennai Mathematical Institute, India**  
July 2014.

**CIMPA school on Algebraic Curves over Finite Fields, UP Diliman, Philippines**  
July- Aug 2013

**Rational Points, Rational Curves and Entire Holomorphic Curves on Projective Varieties, University of Montreal, Canada, Jun, 2013.**

## Awards and Fellowships

Selected for two year prestigious postdoctoral fellowship from [Atlantic Association for Research in the Mathematical Sciences\(AARMS\)](#)(2021-2023).

Offered a tenure-track assistant professor position at the Xiamen University at the Malaysia Campus(2022).

Offered a tenured assistant professor position at the Birla Institute of Science and Technology, Pilani at the Hyderabad Campus, India (2021).

Offered a visiting assistant professor position at the American University of Sharjah, Sharjah (2021).

Offered postdoctoral/visiting scientist positions from several places including  
University of Waterloo, Canada  
University of Technology (TU Graz), Austria  
The Institute of Mathematical Sciences, Chennai, India  
Harish Chandra Research Institute, Allahabad, India

LIA Indo-French visiting scientist fellowship, 2016, UPMC, Paris

Indian Statistical Institute, PhD fellowship in Mathematics, 2011-2016  
Awarded only to 8 best students in India.

Prestigious CSIR PhD fellowship, June 2011

Masters fellowship, National Board for Higher Mathematics (NBHM)  
(Awarded only to the best 29 students in India, 2008)

## References

Available on request