Dr. Manasi Kumari Sahukar

CONTACT INFORMATION	**AT-Main Road, In front of Manoj Medical Store, PO-Neelavadi, P.S-Bandhugaon, Dist-Koraput-764027, Odisha, India**
	Phone: +91-8895906878
	Email:manasi.sahukar@gmail.com
DATE OF BIRTH	30 May, 1993
NATIONALITY	Indian
GENDER	Female
MARITAL STATUS	Unmarried
CATEGORY	OBC

EDUCATION HISTORY

July 2015 – June 2020	**National Institute of Technology Rourkela** Ph.D in Mathematics CGPA-8.83 Thesis Submission Date: 22nd June 2020 Thesis Defended Date: 6th November 2020 Thesis Title**: A Study on Arithmetic Functions and Diophantine Equations Associated with Balancing and Related Sequences.**
Aug 2013 – May 2015	**National Institute of Technology Rourkela** Master of Science in mathematics CGPA-7.62
Aug 2010 – May 2013	**Khallikote autonomous College, Berhampur** Bachelor of Science in mathematics % of marks-77.5

RESEARCH INTERESTS

Number Theory (Elliptic Curve, Diophantine Equation, Recurrence sequences)

PUBLICATIONS

1. Positive Integer Solutions of Certain Diophantine equations (with B. K. Patel and P.K. Ray), Proceeding Mathematical Sciences, 128 (2018), no. 1, p. 5.
   Link- https://doi.org/10.1007/s12044-018-0377-4.

2. Arithmetic Functions of Balancing Numbers (with G. K. Panda), Fibonacci Quart. 56 (2018), no. 3, 246–251.
   Link-https://www.fq.math.ca/56-3.html

3. Repdigits in Euler Functions of Pell Numbers (with G. K. Panda), Fibonacci Quart. 57 (2019), no. 2, 134–138.
   Link-https://www.fq.math.ca/57-2.html

4. Repdigits in Euler functions of Associated Pell Numbers (with G. K. Panda), Proceeding Mathematical Sciences, 130(1), 25 (2020)
   Link- https://doi.org/10.1007/s12044-019-0551-3.

5. Balancing and Balancing-like Numbers Which are One Away from Perfect Powers (with G. K. Panda), Bull Braz Math Soc, New Series 51 (2020), 681-696.
   Link-https://doi.org/10.1007/s00574-019-00170-z

6. Diophantine Equations with Balancing-like Sequences Associated to Brocard-Ramanujan-Type Problem (with G. K. Panda), Glasnik Matematicki 54(74) (2019), 255–270.
   Link-https://doi.org/10.3336/gm.54.2.01

7. Markov Equation with Components of Some Binary Recurrent Sequences (with S. G. Rayaguru and G. K. Panda), Notes on Number Theory and Discrete Mathematics 26(3) (2020), 149–159
   Link- https://doi.org/10.7546/nntdm.2020.26.3.149-159

8. Perfect squares in the sum and difference of balancing-like numbers (with Z. Siar, R. Keskin and G. K. Panda), Notes on Number Theory and Discrete Mathematics 28(2) (2022), 286-301.
   Link- 10.7546/nntdm.2022.28.2.286-301

WORK EXPERIENCE (Research/Teaching)

December 2022-Present **Presidency University, Bangalore, Karnataka**
Assistant Professor
Responsibilities and/or achievements:
Subject Taught:

- Applied Statistics (with R programming Lab)
- Calculus and Linear Algebra (with MATLAB programming Lab)

September 2021-Nov 2022 **Centurion University of Technology and Management, Vizianagaram, Andhra Pradesh**
Assistant Professor
Responsibilities and/or achievements:
Subject Taught:

- Statistics in Business Strategies(BBA)
- Discrete Mathematics (B.Tech)
- Basic Mathematics for Optometry

February 2021-July 2021 **Gandhi Engineering College Bhubaneswar**
Assistant Professor
Responsibilities and/or achievements:
Subject Taught:

- Mathematics I
- Mathematics(Diploma)-Vector algebra, Real analysis
- Mathematics II

July 2016-Dec 2017 **NIT Rourkela,** Odisha
Teaching Assistant
Responsibilities and/or achievements:
Subjects Taught:

- Mathematics I(Analysis and Vector Calculus), Number Theory
- Practical and labs: Number theory and Numerical Analysis Lab

July 2014-May 2015 **NIT Rourkela,** Odisha
M.Sc Research Project
Thesis Title: Homology theory for cw-complexes.

May 2014 – June 2014 **IIIT Bhubaneswar,** Odisha.
Internship (Research in Number Theory)
Responsibilities and/or achievements:

- Worked on a specific problem on number theory and published one article in this duration

Conference and Workshops attended

- Invited Talk *scientific cum popular talk* on 'Perfect powers in recurrence sequences', the Centre for Data Science, Siksha 'O' Anusandhan Deemed to be University, April 13, 2022.
- International Webinar on "Recent Developments in Number Theory-2020, Department of Mathematics, School of Applied Sciences, KIIT Deemed to be University Bhubaneswar, India, August 17-20, 2020.
- Webinar on "Number Theory and its Related Topics", Department of Mathematics, Sambalpur University, Sambalpur, India, July 6-15, 2020.
- Conference on "International conference on class groups of number fields and related topics (ICCGNFRT 2019), Harish-Chandra Research Institute, Allahabad, India, October 16-19, 2019.

- Conference on "Diophantine equations with balancing-like sequences associated to Brocard-Ramanujan-type problem ", International Conference on Number Theory and Graph Theory(ICNG 2019), University of Mysore, June 27-29, 2019.

- Workshop attended "Advance Training in Mathematics Schools-Analytic Theory of Algebraic Numbers", KIIT University, Bhubaneswar, 13th June - 2nd July, 2016.

- Mathematics Training and Talent Research Programme (MTTS 2014), Regional Institute of Education (RIE), Mysore, India, May 19th-June 14th, 2014.

Language Skills:

- English, Odia (mother tongue), Hindi, Telugu

INVITED TALKS

- On 'Perfect powers in recurrence sequences', the Centre for Data Science, Siksha 'O' Anusandhan Deemed to be University, April 13, 2022.

FELLOWSHIPS/ AWARDS

- GATE, MHRD, 2017.
- IIT-JAM, 2013.

REFERENCES

- **Prof. Gopal Krishna Panda**
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  NIT Rourkela
  Odisha 769008 India
  Email: gkpanda@nitrkl.ac.in

- **Prof. Kishore Chandra Pati**
  Professor
  Department of Mathematics
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  Odisha 769008 India
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- **Prof. Prapanpong Pongsriiam**
  Department of Mathematics, Faculty of Science,
  Silpakorn University,6 Ratchamankanai Rd.,
  Nakhon Pathom, 73000, Thailand.
  E-mail: prapanpong@gmail.com