

# Dr. Subrat Kumar Jena

Assistant Professor at Siksha 'O' Anusandhan (SOA) Deemed to be University


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## SUMMARY

Assistant Professor in Center for Applied Mathematics & Computing at Siksha 'O' Anusandhan (SOA) Deemed to be University, Bhubaneswar, India with a strong research focus in Computational Solid Mechanics, Applied Mathematics, Mathematical Modeling, and Uncertainty Quantification. Author of 36 peer-reviewed journal articles, 3 conference papers, 9 book chapters, and 7 books, accumulating over 1,420 citations and a Google Scholar h-index of 24.

## EXPERIENCE

 **Assistant Professor, Applied Mathematics & Computing**  
**Siksha 'O' Anusandhan (SOA) Deemed to be University**

04/2026 Bhubaneswar, Odisha, India

 **Postdoctoral Researcher: 1 year**  
**Università degli Studi di Cagliari**

02/2025 - 02/2026 Cagliari, Italy

Mentor: Prof. Victor A. Eremeyev

 **MGR25 Visiting Research Fellow: 3 Months**  
**Faculty of Mathematics, Universität Duisburg-Essen**

09/2025 - 11/2025 Essen, Germany

Mentor: Prof. Patrizio Neff

 **Institute Post-Doctoral Fellow: 2 Years**  
**Indian Institute of Technology Delhi (IIT Delhi)**

01/2023 - 01/2025 New Delhi, Delhi, India


Mentor: Prof. S. Pradyumna

 **Honorary Postdoctoral Fellow: 8 Months**  
**NMCAD Lab, Indian Institute of Science (IISc)**

06/2022 - 01/2023 Bangalore, Karnataka, India

Mentor: Prof. Dineshkumar Harursampath

## EDUCATION

 **PhD: Applied Mathematics | 8.79 CGPA**  
**National Institute of Technology Rourkela (NIT Rourkela)**

07/2016 - 05/2022 Rourkela, Odisha, India


Supervisor: Prof. S. Chakraverty

 **MSc: Mathematics and Scientific Computing | 7.48 CGPA**  
**MNNIT Allahabad (NIT Allahabad)**


01/2013 - 01/2015 Prayagraj, Uttar Pradesh, India

 **BSc: Physics & Mathematics | 75.94%**  
**B.J.B Autonomous College (Utkal University)**

01/2008 - 01/2011 Bhubaneswar, Odisha, India

 **Higher Secondary (+2): CHSE Odisha | Science | 77%**  
**S.V.M College**

01/2005 - 01/2007 Jagatsinghapur, Odisha, India

 **10th Board Exam: BSE, Odisha | 72%**  
**Angeswarpara High School**

01/2004 - 01/2005 Jagatsinghapur, Odisha, India

## KEY ACHIEVEMENTS

 **MGR25 Researchers Mobility Program**

Selected for MGR25 Youth Researcher Program with top score (27/30) among 60 peers.

 **Harry Bloomfield Scholarship**

Awarded Harry Bloomfield Postdoctoral Scholarship for outstanding research potential at Tel Aviv University.

 **Best Paper Award**

Best Paper Award in Oral Presentation at ICAMM-2023, IIT Indore.

 **Best PhD Thesis Award**

Awarded 'Mathematics 2022 Best PhD Thesis' with CHF 500 prize and certificate.

 **Top Cited Paper Award**

IOP Publishing Top Cited Paper Award in 2021 and 2022 in the Materials subject category

 **High-Impact Publications**

Top-Cited Paper, *ZAMM* (Wiley); Three Best-Cited Papers, *Curved and Layered Structures* (De Gruyter).

## CERTIFICATIONS

Uncertainty Quantification

AI and ML Program

Python Programming Certification

Certified Data Science Associate Program

Statistical Learning

## SKILLS

### Research Expertise

Applied Mathematics

Numerical Methods

Mathematical Modeling

Soft Computing

Uncertainty Quantification

Simulations

Dynamical Systems

Scientific Computing

### Programming & Software

C

C++

MATLAB

Python

Maple

Mathematica

COMSOL