

Dr. Subrat Kumar Jena

Postdoctoral Researcher at Università degli Studi di Cagliari, Italy

+91-9776304884 @sjena430@gmail.com https://subratkumarjena.com/
https://www.linkedin.com/in/subrat-kumar-jena/ via Marengo 2, Building A, 09123 Cagliari, Italy



SUMMARY

Postdoctoral Researcher at the Università degli Studi di Cagliari 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 1,400 citations and a Google Scholar h-index of 24. Actively engaged in shaping the research landscape as a reviewer and guest editor, contributing more than 100 manuscript evaluations for leading international journals. Committed to building independent research directions, mentoring emerging scholars, and advancing innovative, high-impact mathematical modeling for complex engineering systems.

EXPERIENCE

 **Honorary Postdoctoral Fellow: 8 Months**
NMCAD Lab, Indian Institute of Science (IISc)
06/2022 - 01/2023 Bangalore, Karnataka, India
• Mentor: Prof. Dineshkumar Harursampath

 **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

 **MGR25 Visiting Research Fellow: 3 Months**
Faculty of Mathematics, Universität Duisburg-Essen
09/2025 - 11/2025 Essen, Germany
• Mentor: Prof. Patrizio Neff

 **Postdoctoral Researcher: 1 year**
Università degli Studi di Cagliari
02/2025 - 02/2026 Cagliari, Italy
• Mentor: Prof. Victor A. Eremeyev

EDUCATION

 **Board of Secondary Education | 72%**
Angeswarpara High School
01/2004 - 01/2005 Jagatsinghapur, Odisha, India

 **Council of Higher Secondary Education | Science | 77%**
S.V.M College
01/2005 - 01/2007 Jagatsinghapur, Odisha, India

 **BSc: Physics & Mathematics | 81.12%**
B.J.B Autonomous College
01/2008 - 01/2011 Bhubaneswar, Odisha, India

 **MSc: Mathematics and Scientific Computing | 7.48 CGPA**
MNNIT Allahabad (NIT Allahabad)
01/2013 - 01/2015 Prayagraj, Uttar Pradesh, India

 **PhD: Applied Mathematics | 8.79 CGPA**
National Institute of Technology Rourkela (NIT Rourkela)
07/2016 - 05/2022 Rourkela, Odisha, India
• Supervisor: Prof. S. Chakraverty

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

Certification in Python Programming
Indian Council for Technical Research and Development (ICTRD) — 22 February 2026

AI and ML Programme
Indian Council for Technical Research and Development (ICTRD) — 27 February 2026

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