

CURRICULUM VITAE

PERSONAL INFORMATION

Name: Nikhil Manoj
Nationality: Indian
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EMPLOYMENT

Postdoctoral Researcher – University of Würzburg, Germany November 2025 -

EDUCATION

Ph.D. in Mathematics (2020–2025) October 2025
Indian Institute of Science Education and Research Thiruvananthapuram

M.Sc. Mathematics (2018-2020) April 2020
Cochin University of Science and Technology, Kerala
CGPA: 8.43/10.00

B.Sc. Mathematics (2015-2018) March 2018
St. Berchmans College, Changanassery, Kerala
CCPA: 9.66/10.00

12th grade March 2015
CBSE
Aggregate percentage: 95.4 with A1 grade in all subjects

PUBLICATIONS

1. N. Manoj, V.G. Gowda, S.K. Kenettinkara, “Convergence of a second-order scheme for non-local conservation laws,” *ESAIM: M2AN*, 57(6), 3439–3481 (2023).
2. N. Manoj, S.K. Kenettinkara, “Convergence analysis of a MUSCL-type central scheme for conservation laws with discontinuous flux,” (to appear in *IMA Journal of Numerical Analysis*, 2025), arXiv:2501.04620.
3. N. Manoj, V.G. Gowda, S.K. Kenettinkara, “A positivity preserving second-order scheme for multi-dimensional system of non-local conservation laws,” (preprint, 2024), arXiv:2412.18475.
4. N. Manoj, V.G. Gowda, S.K. Kenettinkara, “A MUSCL-Hancock scheme for non-local conservation laws,” (preprint, 2025), arXiv:2506.04176.

ACHIEVEMENTS

- 2024 SERB International Travel Scheme grant to attend EQUADIFF-2024, Karlstad University, Sweden.
- 2023 NBHM sponsorship to attend ICIAM-2023, Tokyo.
- 2019 Qualified CSIR-NET for Junior Research Fellowship (AIR 24).
- 2019 Qualified CSIR-NET for Lectureship.
- 2018 Selected for Indian Academy of Sciences Summer Research Fellowship Program.
- 2015 Awarded INSPIRE Scholarship for Higher Education (2015–2020).

SELECTED RESEARCH TALKS

- “Convergence of a second-order scheme for non-local conservation laws.” EQUADIFF-2024, Karlstad University, Sweden.
- “Convergence of a second-order scheme for non-local traffic flow problems.” ICIAM-2023, Waseda University, Tokyo.

TEACHING EXPERIENCE

- Tutor at NCM–Advanced Training in Mathematics Workshop (ATMW) on “Numerical Methods for PDEs,” Indian Institute of Petroleum and Energy, Visakhapatnam (Dec 2024).
- Teaching Assistant at IISER Thiruvananthapuram (2021-2025) for the courses: Single Variable Calculus, Multivariable Calculus, Numerical Analysis, Mathematical Statistics, General Topology, Mathematical Tools II.

SKILLS

Programming languages: Python, C++
Software: MATLAB, Gnuplot, VisIt, \LaTeX

LANGUAGES

English (full working proficiency), Malayalam (native), Hindi (intermediate)