Curriculum Vitae

Ambrish Pandey
Department of Physics, Indian Institute of Technology Roorkee, Haridwar 247667, India

Academic Degrees

- 2016 - M. Sc. - Ph. D. (Dual Degree), Department of Physics, Indian Institute of Technology Kanpur, Kanpur 208016, Uttar Pradesh, India
- 2008 - B. Sc. (Honours) in Physics, Department of Physics, Banaras Hindu University, Varanasi 221005, Uttar Pradesh, India

Employment

- Jan. 2023 — present: Assistant Professor, Department of Physics, Indian Institute of Technology Roorkee, India
- Dec. 2019 — Dec. 2022: Research Associate, Center for Space Science, New York University Abu Dhabi, UAE
- Nov. 2016 — Nov. 2019: Post-Doctoral Fellow, Institut für Thermo- und Fluiddynamik, Department of Mechanical Engineering, Technische Universität Ilmenau, Germany

Awards

- *Best Paper Award of the TU Ilmenau 2020* for the article **"**Turbulent Superstructures in Rayleigh-Bénard convection", Nature Communications **9**, 2118 (2018).
- Junior Research Fellowship, conducted by the Council of Scientific and Industrial Research (CSIR), India.

Editorial

- Associate Editor, European Journal of Mechanics B/Fluids (since 2024)
- Reviewer for Journal of Fluid Mechanics, Europhysics Letters, Scientific Reports, European Journal of Mechanics B/Fluids, Chaos: An Interdisciplinary Journal of Nonlinear Science, Zeitschrift für Angewandte Mathematik und Mechanik (ZAMM), Physics of Fluids

Research Visits

- January 2016 to March 2016, as guest scientist to Technische Universität Ilmenau, Germany

Invited Talks

- Title: *Attempts to approach solar convection parameters—but a long way to go*, Field Theory and Turbulence, ICTS Bengaluru, India (Dec. 2023)

PhD Students

- Shreshthi (since 2023)

Important Publications (see also Google Scholar and ORCID)

- **A. Pandey** and K. R. Sreenivasan, *Turbulent Convection in Rotating Slender Cells*, J. Fluid. Mech. **999**, A28 (2024). pdf
- **A. Pandey**, J. Schumacher, and K. R. Sreenivasan, *Non-Boussinesq low-Prandtl number Convection with a Temperature-dependent Thermal Diffusivity*, Astrophys. J. **907**, 56 (2021). pdf

- E. Fonda*, **A. Pandey***, J. Schumacher, and K. R. Sreenivasan, *Deep learning in turbulent convection networks*, Proc. Natl. Acad. Sci. USA **116** (18) 8667—8672 (2019). pdf SM [*equal contribution]
- **A. Pandey**, J. D. Scheel, and J. Schumacher, *Turbulent Superstructures in Rayleigh-Bénard convection*, Nat. Commun. **9**, 2118 (2018). pdf SM
- **A. Pandey** and M. K. Verma, *Scaling of large-scale quantities in Rayleigh-Bénard convection*, Phys. Fluids **28**, 095105 (2016). pdf