

Kalpesh Chaware

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Education

Indian Institute of Science Education and Research, Kolkata Expected 2027
BS-MS Dual Degree (Major: Earth Science, Minor: Computer Science) Kolkata, India

Relevant Coursework

- **Earth Science:** Inverse Theory, Seismology, Seismology Lab, Geophysics, Hydrology and Geodynamics, Earth System processes, Earth and Planetary Sciences
- **Other related courses:** Programming and Data Structures I & II, Introduction to Computation, Introduction to Computer Programming, Waves and optics, Computational Physics

Vivekanand Arts, Sardar DalipSingh Commerce And Science College March 2022
Higher Secondary Certificate Exam (12th), Maharashtra State board Ch. Sambhajinagar, India
Maharshi Vidyalaya March 2020
Secondary School Certificate Exam (10th), Maharashtra State Board Ch. Sambhajinagar, India

Experience

Master's Thesis | IISER Kolkata July 2026 – Present
Ambient Noise Interferometry (Supervisor: [Prof. Kajaljyoti Borah](#)) Mohanpur, India

- Computing relative seismic velocity variations (dv/v) to monitor subsurface changes.

Teaching Assistant | IISER Kolkata August 2026 – Present
CS1101 - Introduction to Computer Programming (1st Year Undergraduate Course) Mohanpur, India

Summer Internship | NISER, Bhubaneswar May 2025 – July 2025
Thermal Model of Asteroid Vesta (Supervisor: Prof. Guneshwar Singh Thangjam) Bhubaneswar, India

- Gained an understanding of the differentiation processes within planetary bodies.
- Implemented numerical solutions to heat diffusion equations in Python and performed parameter sensitivity analysis

Field Work

Structural Geology and Petrology Fieldwork January 2026
Tetuldanga, Singhbhum Shear Zone, India Ghatshila, Jharkhand

- Measured planar and linear fabrics (bedding/foliation, crenulations, and fold axes) and analyzed orientation data using stereographic projections.
- Identified superposed fold interference patterns including hook, arrowhead, and dome-and-basin structures to establish the deformation sequence.

Sedimentology Field Work December 2024
Mohand Rao River Section, Himalayan Foreland Basin, India Dehradun, India

- Analyzed Middle-Upper Siwalik strata to study high-energy braided river systems and tectonic deformation in the Himalayan foreland basin.
- Identified sedimentary structures to infer direction of paleoflow, and soft-sediment deformation indicating seismic events
- Assessed sediment provenance via thin-section and pebble analysis, confirming Himalayan sources

Achievements

INSPIRE Fellow 2022
Qualified for NTS Scholarship 2020

Professional Development and Certifications

GMAP Geologic Mapping Winter School | Online February 2025
Properties of the Lithosphere | IISER Kolkata October 2024

Technical Skills

Languages: C, Python

Software: Git, Seismic Analysis Code, hrftn96