

PERSONAL DETAILS		PERMANENT ADDRESS	
Name	ABHISHEK KUNDU	89, Zilla Parishad Road,	
Sex	MALE	C/o. Goutam Kumar	
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Google Scholar	scholar.google.com/citations?user=hX5LHZIAAAAJ&hl=en		

Career Objective

I am a budding researcher in the field of earthquake seismology with a strong knowledge of geology and tectonics. My research focuses on the tectonic and geodynamic evolution of convergent and collisional settings with the implementation of passive seismological techniques.

Research Interests

- ❖ Crustal structure investigation based on Receiver Function techniques.
- ❖ Seismicity and seismotectonic.
- ❖ Modeling of earthquake source mechanism using waveform inversion.
- ❖ Estimation of earthquake source parameters through spectral analysis.
- ❖ Seismic anisotropy study of crust and upper mantle based on shear wave splitting technique.

Educational Details

QUALIFICATION	INSTITUTE/DEPARTMENT	UNIVERSITY	YEAR	% of MARKS/CGPA/STATUS
Postdoctoral Research Fellow	Department of Earth System Sciences	Yonsei University, Seoul, South Korea	1 st Feb 2024	Ongoing
Postdoctoral Research Associate (RA-I)	NRGRL (IIG) Shillong	Indian Institute of Geomagnetism (IIG)	31 May, 23 - 8 Jan, 24	7 months 10 days
Ph.D. [Earthquake Seismology]	Wadia Institute of Himalayan Geology, Dehradun, India	Banaras Hindu University, Varanasi, India	2022	Awarded
M.Sc. [Applied Geology]	Presidency University	Presidency University, Kolkata, India	2016	8.55 (CGPA)
B.Sc. (Hons.) [Geology]	Asutosh College, Kolkata, India	University of Calcutta (C.U.)	2014	61.25%

Academic Achievements/Involvements

- ❖ Qualified **CSIR-NET (JRF), 2016** in Earth Sciences.
- ❖ Placed **1st** at Alipurduar High School in the West Bengal Education Board's **Class X (2008)** and **XII [Science] (2010)** exams with **94.375%** and **84.8%** marks, respectively.
- ❖ Industrial training on 'Uranium exploration techniques at Singhbhum Shera Zone' at Atomic Mineral Directorate, Eastern Region, Jamshedpur in May 2015.
- ❖ Summer Project on 'Sustainable Development and management of Groundwater resources' under Central Ground Water Board, Eastern Region, India in June 2015.
- ❖ Ranked 8th in Presidency University and 13th in Jadavpur University entrance examination of M.Sc course in 2014.
- ❖ Participated in Geospectrum, Brainstorm, and Geologix events at Prithvi, organized by IIT Kharagpur in March 2013.

Field Experiences

PROJECT	SUPERVISOR	YEAR
Data retrieval and maintenance of the BBS network installed by NEGRIL (IIG) Shillong in different parts of Northeast India.	Self	2023
Data retrieval and maintenance of the BBS networks in Siang valley, Arunachal Pradesh and Kumaon Himalaya, Uttarakhand.	Dr. Devajit Hazarika	2021
Installation of a seismological network comprised of 8 BBS stations and data retrieval from the Siang Valley in Arunachal Pradesh, India.	Dr. Devajit Hazarika	2019
Establishment of ten broadband seismological stations' network, maintenance of the BBS stations, and collection of data from Kali River profile in Kumaon Himalaya, Uttarakhand, India.	Dr. Devajit Hazarika	2017
Master's Thesis Paper: Analysis of lineation in the Singhbhum Group of Rocks in and around Bangripasi, Mayurbhanj District, Odisha, India.	Prof. Gautam Kumar Deb and Prof. Arijit Ray	2015
Structural mapping of highly deformed terrain at Matalia Jhor and lithological study in and around Angul, Odisha.	Prof. Nilanjan Dasgupta and Prof. Sankar Bose	2015

Relevant Computation Skill

Global mapper, Map Info	Used for map making, and performing other geomorphic and hydrological analysis.
Generic Mapping Tool (GMT), ObsPy	The GMT and ObsPy are collections of open-source computer software, including rasterization, filtering, image processing, different kinds of map projections. and handling and plotting seismological data.
Python and Shell script (Linux)	Basic programming abilities
SEISAN	Earthquake analysis software.
SAC	The Seismic Analysis Code software is used for analyzing seismic waves.
Coral Draw, Surfer, Grapher	Used for image editing, analyzing, and visualizing complex datasets.
ISOLA	Used for finding focal mechanism solutions of local earthquakes.
MATLAB, SplitLab	Source parameter estimation and Anisotropy study

Conferences/Workshops

- **Abhishek Kundu**, Devajit Hazarika, Somak Hajra “Crustal thickness and Poisson’s ratio variations in the northeast India–Asia collision zone (Tidding Suture)”. 3rd National Geo-Research Scholars Meet 2019, WIHG, Dehradun, Uttarakhand.
- **Abhishek Kundu**, Devajit Hazarika “Seismotectonics of the indenting northeast corner of the Indian plate in the Tidding-Tuting Suture Zone of the Eastern Himalayan Syntaxis”. 42nd AEG Conference, 2021
- **Abhishek Kundu**, Devajit Hazarika “Seismotectonics of the indenting northeast corner of the Indian plate in the Tidding-Tuting Suture Zone of the Eastern Himalayan Syntaxis”. 58th Annual Convention of Indian Geophysical Union (IGU), 2022.

Languages Known

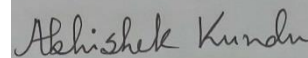
- Bengali [Mother’s tongue] (R/W/S)
- English (R/W/S)
- Hindi (R/W/S)

Peer-Reviewed Publications

1. **Kundu, A.**, Hazarika, D., Hajra, S., Yadav, D.K., 2023. Imaging the crustal structure at the indenting northeast corner of the Indian Plate beneath the Eastern Himalayan Syntaxis. *Geophysical Journal International*, ggad284, 235 (2), 1035–1048. <https://doi.org/10.1093/gji/ggad284>
2. **Kundu, A.**, Hazarika, D., Yadav, D.K. and Ghosh, P., 2022. Crustal thickness and Poisson's ratio variations in the Siang Window and adjoining areas of the Eastern Himalayan Syntaxis. *Journal of Asian Earth Sciences*, 231, 105225. <https://doi.org/10.1016/j.jseaes.2022.105225>
3. **Kundu, A.**, Hazarika, D., 2022. Estimation of source parameters and scaling relations for local earthquakes of Lohit Valley in Arunachal Himalaya, Northeast India. *Geological Journal* 57; 4872-4885. <https://doi.org/10.1002/gj.4423>
4. **Kundu, A.**, Hazarika, D., Hajra, S., Singh, A.K., Ghosh, P., 2020. Crustal thickness and Poisson's ratio variations in the northeast India–Asia collision zone: Insight into the Tuting-Tidding Suture zone, eastern Himalaya. *Journal of Asian Earth Science*, 188, 10499. <https://doi.org/10.1016/j.jseaes.2019.104099>
5. Hazarika, D., **Kundu, A.**, Ghosh, P., 2022. Seismotectonic scenario of the indenting northeast corner of the Indian plate in the Tidding-Tuting Suture Zone of the Eastern Himalayan Syntaxis. *Tectonophysics* 824, 229197. <https://doi.org/10.1016/j.tecto.2021.229197>
6. Das, A., Hazarika, D., **Kundu, A.**, Kumar, N., Yadav, D.K., 2024. Sedimentary thickness and basement topography in the western part of the Indo-Gangetic Plain and Siwalik Himalaya inferred from receiver function analysis. *Geophysical Journal International*, 236 (3), 1424–1438. <https://doi.org/10.1093/gji/ggad499>
7. Shukla, N., Hazarika, D., **Kundu, A.**, Mukhopadhyay, S., 2022. Spatial variations of crustal thickness and Poisson's ratio in the north-eastern region of India based on receiver function analysis. *Geological Journal* 57 (2). <https://doi.org/10.1002/gj.4469>
8. Hajra, S., Hazarika, D., Shukla, V., **Kundu, A.**, Pant, C.C., 2022. Stress dissipation and seismic potential in the central seismic gap of the north-west Himalaya. *Journal of Asian Earth Science*, 239, 105432, <https://doi.org/10.1016/j.jseaes.2022.105432>
9. Hazarika, D., Hajra, S., **Kundu, A.**, Bankhwal, M., Kumar, N. and Pant, C.C., 2021. Imaging the Moho and Main Himalayan Thrust beneath the Kumaon Himalaya: constraints from receiver function analysis. *Geophysical Journal International*, 224(2), pp.858-870. <https://doi.org/10.1093/gji/ggaa478>
10. Hajra, S., Hazarika, D., Bankhwal, M., **Kundu, A.**, Kumar, N., 2019. Average crustal thickness and Poisson's ratio beneath the Kali River Valley, Kumaon Himalaya. *Journal of Asian Earth Science*, 173, 176-188. <https://doi.org/10.1016/j.jseaes.2019.01.010>
11. **Kundu, A.**, Hazarika, D., Hajra, S., Paul, A., 2023. Understanding the deformation pattern of the crust and lithospheric mantle at the indenting northeast corner of the Indian Plate beneath the Eastern Himalayan Syntaxis. *Physics of the Earth and Planetary Interiors* (Under Review)

DECLARATION

I hereby declare that the above information is correct to the best of my knowledge.

**REFERENCES**

Name	Prof. J. R. Kayal	Dr. Devajit Hazarika
Designation	Retd. Deputy Director General (Geophysics Division)	Scientist “E”
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