Name	Argha Banerjee
Present position	Associate Professor, and Deputy Chair Earth and Climate Science Indian Institute of Science Education and Research Pune Dr. Homi Bhabha Road, Pashan, Pune 411 008 India
Email	argha@iiserpune.ac.in, argha.k@gmail.com
Date of birth	2nd February, 1981
Research Interests	Himalayan glaciers, Glacier-fed rivers, Glacial landscapes
Education	Ph. D. (2004 - 2010) Department of Theoretical Physics Tata Institute of Fundamental Research, Mumbai, India M.Sc. in Physics (2002 - 2004) Indian Institute of Technology Kanpur, India B.Sc. in Physics (1999 - 2002) Jadavpur University, Kolkata, India
Past positions	Post Doctoral Fellow (2010 - 2012) The Institute of Mathematical Sciences, Chennai, India INSPIRE Faculty Fellow (2013 – 2015) Department of Earth Sciences Indian Institute of Science Education and Research Kolkata, India Assistant Professor (2015-2021) Earth and Climate Science Indian Institute of Science Education and Research Pune
Awards and Fellowships	National Talent Search Scholarship, NCERT (1997) Joint CSIR-UGC Junior Research Fellowship (2003) INSPIRE Faculty Fellowship Award, DST (2012)
Mentoring	1 PostDoc, 2 Phd, and 4 Masters' students
Teaching	Undergraduate and graduate-level courses on Glaciology, Hydrology, Landscape Evolution, Geodynamics, and Mechanics.
Administration	Deputy-Chair, ECS Coordinator, Phd program, ECS Member of various Institute-level committees (Academic Ethics, Students Activity, Students' Election, etc.
National-level Workshops	Organised Training school on glacier modelling; Training school on

geospatial data analysis; Training school on non-equilibrium thermodynamics; Glaciology workshop for undergraduate students; workshop for young scientists from Indian Cryosphere community

Others

Scientific Editor, Journal of Glaciology

Topic Editor, Frontiers in Earth Science, Research topic – *Debris-Covered Glaciers Formation, Governing Processes, Present Status and Future Directions*

Member, Project Appraisal and Monitoring Committee - Hydrology & Cryosphere, Ministry of Earth Sciences, Govt of India

Grants

1. *Understanding and modelling the interactions between Debris and glacier Ice in a changing ClimatE (D-ICE),* An Indo-Swiss project funded by Ministry of Earth Sciences, (2023-2027), ₹22 Lakhs.
2. *Improved description of the water-cycle in the Upper Ganga catchment using isotope, geochemical data, and model simulation*, funded by Ministry of Earth Sciences, (2018-2022), ₹22 Lakhs.
3. *Observation and modelling of the water cycle in Chandra and Upper Alaknanda Basins*, funded by HiCOM, NCAOR (2018-2022), ₹24 Lakhs.
4. *A scoping proposal to build a two-dimensional ice-flow model for basin-scale glacier simulation in the Himlaya*, funded by Ministry of Earth Sciences, Govt of India (2016–2018), ₹10 Lakhs.
5. *Numerical modeling and field studies of debris covered glaciers in Indian Himalaya*, funded by Dept of Science and Technology, Govt of India under INSPIRE Faculty Award Scheme (2013-2018), ₹35 Lakhs.
6. *Glaciers in Upper Alalknanda-Saraswati valley and Climate change*, a multi-institutional project funded by The Institute of Mathematical Sciences, Chennai (2012-2017).
7. *Measurement and modeling of supraglacial debris layer properties of Hamtah glacier*, funded by Dept of Science and Technology, Govt of India (2014-2017), ₹20 Lakhs.

Recent publications

1. S Laha, U Majeed, A Banerjee, I Rashid, J Steiner, S Vijay, Assessing potential risk of glacier avalanches to hydropower infrastructure in the Himalayan region. *Natural Hazards*, 120(5), 4749-4774 (2024)..
2. IA Bhat, I Rashid, RAAJ Ramsankaran, A Banerjee, S Vijay: Inventorying rock glaciers in the Western Himalaya, India, and assessing their hydrological significance. *Geomorphology*, 109514 (2024).
3. A Banerjee, C Sarangi, I Rashid, S Vijay, NA Najar, AS Chandel: A scaling relation for cryoconite holes. *Geophysical Research Letters*, 50, e2023GL104942 (2023).
4. S Laha, A Banerjee, A Singh, P Sharma, M Thamban: Climate sensitivity of the summer runoff of two glacierised Himalayan catchments with contrasting climate. *Hydrology and Earth System Sciences*, 27 (2), 627-645 (2022).

5. A Banerjee, U Singh, C Sheth: Disaggregating geodetic glacier mass balance to annual scale using remote-sensing proxies. *Journal of Glaciology* 1-10 (2022).
6. S Laha, A Winter-Billington, A Banerjee, R Shankar, HC Nainwal, M Koppes: Estimation of ice ablation on a debris-covered glacier from vertical debris-temperature profiles. *Journal of Glaciology* 1-12 (2022).
7. A Banerjee: A weak precipitation sensitivity of glacier runoff. *Geophysical Research Letters* 49 (5), e2021GL096989 (2022).
8. A Winter-Billington, R Dadic, RD Moore, G Flerchinger, P Wagnon, and A Banerjee: Modelling debris-covered glacier ablation using the Simultaneous Heat and Water (SHAW) transport model. Part 1: model development and application to North Changri Nup. *Frontiers in Earth Science* 891 (2022).
9. JK Pattanaik, and others: Luminescence chronology of Late Quaternary palaeo-lake deposits from the Upper Alaknanda Basin, Uttarakhand, India: Implication to palaeoclimate and depositional settings. *Journal of Asian Earth Sciences* 227, 105079, 2 (2022).
10. A Banerjee: Volume-area scaling for debris-covered glaciers, *Journal of Glaciology* 66 (259), 880-886 (2020).
11. A Banerjee, D Patil, and A Jadhav: Possible biases in scaling-based estimates of glacier change: a case study in the Himalaya, *The Cryosphere* 14, 9, 3235-3247 (2020).