ARANYA **SEN**

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Place of Work: Wadia Institute of Himalayan Geology
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I am a travelling geologist. My research focuses on the tectono-metamorphic evolution of convergent and collisional settings with the implementation of field-based techniques, microstructural study, mineral chemistry, thermodynamic modelling and geochronology. I specialize mainly in structural and metamorphic P-T-t modelling of ductile domains and inverted metamorphic sequences across NW Himalaya. Still, there is so much scope to learn!

EXPERIENCE

2021-
POSTDOCTORAL RESEARCH ASSOCIATE, WADIA INSTITUTE OF HIMALAYAN GEOLOGY

2016-2021
DOCTORAL RESEARCHER, WADIA INSTITUTE OF HIMALAYAN GEOLOGY
"**Characterising metamorphism, deformation and magmatism in the crystallines of the Bhagirathi Valley, Garhwal Himalaya**" under the supervision of Dr. Koushik Sen, Scientist 'D', Wadia Institute of Himalayan Geology and Prof. Hari B. Srivastava, Professor, Banaras Hindu University.

2013-2015
DISSERTATION, PRESIDENCY UNIVERSITY
"**Structural analysis of the deformed Paleogene rocks from the Kalakot area, Jammu and Kashmir, India**" under the supervision of Dr. Gautam Ghosh, Professor, Presidency University.

EDUCATION

Education Profile: Qualification	Board/University	Year of Passing	Percentage (%)
Master of Science (Applied Geology)	Presidency University, India	2015	83(8.9 CGPA)
Bachelor of Science (Geology)	University of Calcutta, India	2012	67.8
Higher Secondary (Class 12)	CBSE	2010	86.2
Secondary (Class 10)	CBSE	2008	81.4

ARTICLES

Sen, A., Sen, K., Srivastava, H. B., Singhal, S., Phukon, P. 2018. Age and geochemistry of the Paleoproterozoic Bhatwari Gneiss OF Garhwal lesser Himalaya, NW India: Implications for the pre-Himalayan magmatic history of the Lesser Himalayan basement rocks. Journal of the Geological Society of London, Sp. Publication 481. 21p.

Sen, A., Sen, K., Chatterjee, A., Choudhary, S., & Dey, A., Understanding pre- and syn- orogenic tectonic evolution in western Himalaya through age and petrogenesis of Paleozoic and Cenozoic granites from upper structural levels of Bhagirathi Valley, NW India. Geological Magazine, pp. 1-27, doi: 10.1017/S0016756821000789.

Phukon, P., Sen, K., Srivastava, H.B., Singhal, S. & **Sen, A.** 2018. U- Pb geochronology and geochemistry from the Kumaun Himalaya, NW India, revel Paleoproterozoic arc magmatism related to formation of the Columbia supercontinent: Geological Society of America Bulletin, v. 130 (7-8), p. 1164-1176, doi: 10.1130/B31866.1.

Phukon, P., Sen, K., Singh, P.C., **Sen, A.**, Srivastava, H.B., &Singhal, S. 2019. Characterizing anatexis in the Greater Himalayan Crystallines in terms of pressure, temperature, time and deformation: Integrated Field, metamorphic and chronological study from Kali River Valley, Kumaun Himalaya (NW India). Lithos, v. 344-345, p. 22-50. https://doi.org/10.1016/j.lithos.2019.04.018.

Phukon, P., **Sen, A.,** Sen, K., & Srivastava, H.B., 2019. Variation in the mechanism of dynamic recrystallization and differential stress across the Chiplakot Crystalline Belt, Kali River Valley, Kumaun Himalaya: Implication for exhumation of basement rocks in a 'critical taper wedge' setting. Himalayan Geology.

Sen, A., Phukon, P., Sen, K., & Srivastava, H.B., Metamorphic evolution of the Greater Himalayan Sequence, Bhagirathi Valley, India through a combination of channel flow and in-sequence shearing. Tectonics (under review).

Dey, A., Sen, K., **Sen, A.,** & Choudhary, S., Exhumation of continental UHP eclogite characterized by omphacite breakdown, symplectite formation and devolatiliztion: Tso-Morari Crystalline Complex, trans-Himalaya (NW India). Geosphere (under review).

SKILLS

- **Work ethics**: During my doctoral research tenure, I have worked in a multi-lingual facility trying to pursue my ambitions with confidence in diversity and teamwork to infer the goals of my focused research, so it is for me to work with a team to achieve a certain proposed outcome.
- **Software Strengths:** C, C++, Java
  Thermodynamic modelling software- AxWin, GCDKit, PETROMODELER, Perple_X
- **Languages known**: English, Bengali, Hindi, German
- **Fieldwork expertise**: 10 years of experience of intense geological fieldwork in the Himalayas as well as peninsular India.
- **Leadership capability**: I have experience of leading the supervision process of 4 dissertations during my doctoral research tenure. So, I can induce my knowledge and work ethics to promote a collective effort.