

## PERSONAL PROFILE

**Dr. Purbajyoti Phukon**

Assistant Professor (Since November 2019)

Assam University, Silchar

Ph no: +919957803837

Email: [purba.phukan205@gmail.com](mailto:purba.phukan205@gmail.com)



### Research Interests

My research specialization pertains to structure and tectonics with a special focus on the geodynamic evolution of the Himalayan orogenic belt. I work on microstructures, petrochronology of accessory mineral phases (e.g. zircon, monazite, xenotime, etc.), metamorphism, and ductile deformational patterns of crystalline rocks of the Himalayan orogeny. Phase equilibria modeling of anatexis rocks is one of my prime interests. I am also interested in trace element behavior of structurally controlled accessory phases. I use integrated field, microstructure, paleo stress-strain, and anisotropy of magnetic susceptibility studies to evaluate rock deformations.

### Education Qualifications

- PhD in Geology, Banaras Hindu University, Varanasi and Wadia Institute of Himalayan Geology, Dehradun
- Master of Science in Applied Geology, Dibrugarh University, Assam.
- Bachelor of Science in Geology, Sibsagar College, Dibrugarh University, Assam.

### Publications:

1. **Phukon, P.**, Sen, K., Srivastava, H.B., Singhal, S. & Sen, A. 2018. U- Pb geochronology and geochemistry from the Kumaun Himalaya, NW India, reveal 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.
2. 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.
3. **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.

4. **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*, v. 40, p. 169-181.

#### **Awards**

- SERB-DST travel grant to attend EGU General Assembly, 2019.
- Best Paper award of 2018 in Wadia Institute of Himalayan Geology, Dehradun for the research paper entitled "**Phukon et al., 2018**. U- Pb geochronology and geochemistry from the Kumaun Himalaya, NW India, reveal 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.
- Young Researcher Award 2020 by Institute of Scholars for the research article entitled "**Phukon et al., 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.

Other qualification: **Gate and CSIR-NET**

Permanent address:

*No 1 Hologuri Village  
PO- Moudumoni, Sepon  
Mahmora  
Dist: Charaideo  
Assam, 785673  
India*