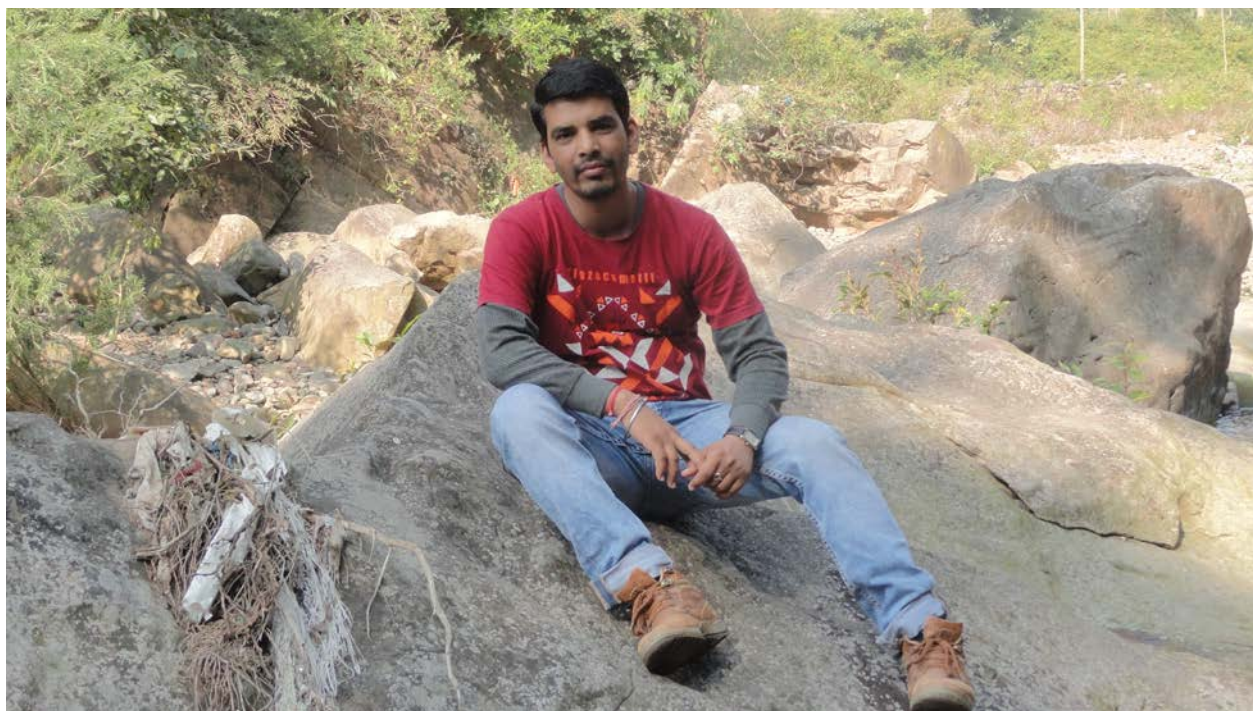


DR. PARAMJEET SINGH, WIHG, DEHRADUN, INDIA



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Google scholar: <https://scholar.google.com/citations?hl=en&user=MAwndXAAAAAJ>

Research gate: https://www.researchgate.net/profile/Paramjeet_Singh12

RESEARCH GROUP:

ACTIVITY 1A (PETROLOGY AND GEOCHEMISTRY)

FIELD OF SPECIALIZATION:

PETROLOGY, GEOCHEMISTRY, U-Pb (ZIRCON)
GEOCHRONOLOGY, (FISSION TRACK DATING,
EXHUMATION OF MOUNTAIN BELTS)

LABORATORY ASSOCIATIONS:

- Fission Track Thermochronology, Mineral separations,
- Laser Ablation-multi collector-ICPMS (U-Pb zircon Geochronology),
- XRF, TQ-ICPMS (whole-rock Geochemistry), Petrology

MY RESEARCH WORK MAINLY FOCUSED IN NW-HIMALAYAN REGIONS:

- Kumaun-Garhwal region of Uttarakhand
- Himachal Himalaya

EDUCATION:

Post-Doc Fellow-	UGC DS Kothari Post-Doctoral Fellow	(2014-2015)
Ph. D.	Kurukshetra University Kurukshetra, (Submit in 2013; Award in 2014)	
NET	Lectureship (UGC-CSIR jointly conducted),	2010 (AIR 55)
M.Sc.	Dept. of Geology, Kurukshetra University Kurukshetra,	2007
B.Sc.	University Collage, Kurukshetra University Kurukshetra,	2005

VISITED COUNTRIES:

- United State of America,
- United Kingdom,
- Malaysia

TEACHING EXPERIENCE: 1 YEARS (2 SEM.)

Teaches basic geology course to M.Sc. tech (Applied Geophysics) students

SERVICES:

a. Supervision/Guidance to Ph.D. Students: ongoing:

- Two UGC-JRF students registered for PhD in AcSIR (Wadia Institute Lab)

b. Membership: Two

- Associate Member AGU,
- Life time member Himalayan Geology
- Life time membership of Vigyan Bharti, Haryana and Uttarakhand

c. Editorial Board:

--NIL--

d. Scientific paper reviewed for various journals:

- (i) Gondwana Research,
- (ii) Journal of Asian Earth Sciences,
- (iii) Geological Society of London (Special Publications),
- (iv) Geological Journal,
- (v) International Geological Review,
- (vi) Himalayan Geology,
- (vii) Journal of Earth System Sciences,
- (viii) Journal of Arabian Geosciences,
- (xi) Geochemistry

e. Research project reviewers:

- Graduate Women in Sciences (GWIS) National fellowship 2023 (USA)

e(#). International/National Seminars/Workshop:

- Attended HKT-2015 held at WIHG, India
- AGU-2017 held at New Orleans, USA

f. External Research Fund received: One (cost: ~ 40 lakhs)

Title: “Geo-thermochronological investigation of the Lesser Himalayan Crystalline of Garhwal Himalaya implication to extrusion and duplexing models **awarded as Principal Investigator (PI)**, sponsored by SERB, Govt. of India.”

f(#). External Travel Fund received:

- International travel grant for New Aussies (France) by SERB (Govt. of India) **2009**
- International travel grant for New Orleans (USA) by SERB (Govt. of India) **2017**
- Wadia Institute scientist International travel grant for AGU (USA) **2017**

g. Awards/Honors/Fellowships:

- DS Kothari Post-Doctoral Fellowship (UGC, Govt. of India) **2014**
- Senior Research Fellow (SRF) (CSIR, Govt. of India) **2012**

- Junior Research Fellow (JRF) (SERB, Govt. of India) **2009**
- University Research Scholarship (URS) (Kurukshetra University) **2008**

LIST OF PUBLICATIONS (UPDATED ON APRIL, 2024)

(Total Publications: 25; Citations: 440; h-index: 10; i10 index: 11)

(a) SCI Papers:

1. **Singh* P.**, Sethy, P.C., Saurabh Singhal, Amit, A. Krishnakanta Singh, M. Rajanikanta Singh (2024) Geochemistry and zircon U-Pb geochronology of the Paleoproterozoic basement rocks of Lesser Himalayan region, NW- India: Implication on the crustal evolution and Columbia supercontinent under revision in **International Geological Review**.
2. **Singh*P.**, Singhal, S., (2024), Geochemistry and U-Pb zircon Geochronology of the Paleoproterozoic Granites of the Kumaun region of the NW-Himalaya (submitted)
3. **Singh*, P.**, Patel, R. C. (2024). Mio-Pliocene exhumation of the hinterland and sediments provenance of the Neogene strata from Kumaun Himalaya of northwest India: Insights from detrital fission-track thermochronology. *Geological Journal*, 59(1), 29-45.
4. **Singh* P.**, Chaudhary, S. K., Sandhu, M., Singh, R. P., & Sagwal, A. (2024). Mio-Pliocene tectonic activity along the Main Boundary Thrust and exhumation of the Amritpur Granite Body, Kumaun region, northwestern Himalaya. *Himalayan Geology*, Vol. 45(1) pp.123 - 137.
5. Mukherjee, P.K, Kumar, P., Singhal, S., **Singh, P.**, Upadhyay, D., Das, S., Rahman, W., Thomson, J.K., Jain, A.K., Chopra, S. (2024). Geochronological and Metal Isotopic studies in India; an overview of new and existing Geo-analytical facilities in India. *Proceeding in Indian National Science Academy* <https://doi.org/10.1007/s43538-024-00262-5>
6. Jain, A.K., Mukul, M., Pant, N.C. Mukherjee, P.K., **Singh, P.**, Singh, T., Rajendran, C.P., Pebam, J., Singh, Preeti, Deshmukh, D.G., Dixit R., (2024). Tectonics of the Northwestern, Sikkim and Eastern Himalaya. *Proceeding in Indian National Science Academy* <https://doi.org/10.1007/s43538-024-00255-4>
7. Singh B.P., Bhargava, O.N., Shukla, U.K., Ganai, J., Thorie, A., **Singh, P.**, Mazumdar, P., (2024). Contributions to Proterozoic-Phanerozoic successions in the Himalaya in *Proceeding in Indian National Science Academy (Accepted)*
8. **Singh* P.** Patel R. C., (2023). Mio-Pliocene exhumation of the hinterland and sediments provenance of the Neogene strata from Kumaun Himalaya of northwest India: Insights from detrital fission-track thermochronology, *Geological Journal*, 1-17, DOI: 10.1002/gj.4840

9. **Singh*, P.**, Sethy, P.C., Singh, A.K., Singhal, S., Maurya, A.K., Giri, S.R., (2023). Geochemistry and U-Pb zircon geochronology of the Jutogh Thrust sheet, Himachal Pradesh, NW-Himalaya: Implications to the petrogenesis and regional tectonic setting, *Geological Journal*, 58(1), 131-149.
10. **Singh*, P.**, Sethy, P.C., Rastogi, H., Singh, M.R., Singh, A.K., Thakur, S.S., Singhal S., (2023). Geological field observations along the Pandoh Syncline: the Mandi-Kataula-Bajaura section of Himachal Pradesh, NW-India Chapter in S. Mukherjee edited *Structural Geology & Tectonics Field Guidebook (Vol. 2) ISBN 978-3-030-60142-3*
11. **Singh* P.** Patel R. C., (2022). Miocene development of MBT, Ramgarh Thrust and exhumation of lesser Himalayan rocks of Kumaun-Garhwal region, NW-Himalaya (India): insights from Fission Track Thermochronology, *Journal of Asian Earth Sciences* Vol. 224, pp. 104987
12. **Singh* P.**, Patel, RC, Chaudhary SK (2022). Fission Track Thermochronology basic fundamentals, Technique and its Geological Application: A case study from Kumaun-Garhwal Himalaya, *Himalayan Geology*, Vol. 43(1A) pp.96-110.
13. **Singh*, P.**, Aliba Ao, S. S. Thakur, Shruti Rana, R. Sharma, A. K. Singh, S. Singhal (2021) Geology, Structural, Metamorphic and Mineralization studies along the Mandi-Kullu-Manali-Rohtang section of Himachal Pradesh, NW-India, in in edited volume by S. Mukherjee *Structural Geology & Tectonics Field Guide (Vol. 1) ISBN 978-3-030-60142-3 pp.437-460*
14. **Singh* P.**, Singhal S., Das, A.N. (2020) U–Pb (zircon) geochronologic constraint on tectono-magmatic evolution of Chaur granitoid complex (CGC) of Himachal Himalaya, NW India: implications for the Neoproterozoic magmatism related to Grenvillian orogeny and assembly of the Rodinia supercontinent. *International Journal of Earth Sciences* 109, 373-390. doi.org/10.1007/s00531-019-01808-5
15. **Singh* P.**, Patel, R.C., (2017) Post-emplacement exhumation history of Almora klippe of Kumaon-Garhwal Himalaya, NW-India as revealed by Fission track thermochronology, *International Journal of Earth Sciences* 106, 2189-2202.
16. Jain, AK, Malay, M., Patel, RC., **Singh, P.**,...Pant NC., (2016) Tectonics and Evolution of the Himalaya. *Proceedings of the Indian National Science Academy*, 83, 1-24. [doi: 10.16943/ptinsa/2016/48469](https://doi.org/10.16943/ptinsa/2016/48469)

17. Patel, R.C., **Singh, P.**, Lal, N., (2015) Thrusting and back-thrusting as post-emplacement kinematics of the Almora klippe: Insights from Low-temperature thermochronology. *Tectonophysics*, 653, 41–51, <http://dx.doi.org/10.1016/j.tecto.2015.03.025>
18. **Singh, P.**, Patel, R.C., Lal, N., (2012) Plio-Pleistocene in-sequence thrust propagation along the Main Central Thrust zone (Kumaon-Garhwal Himalaya, India): New thermochronological data. *Tectonophysics*, 574-575, 193–203. Doi:[10.1016/j.tecto.2012.08.015](http://dx.doi.org/10.1016/j.tecto.2012.08.015).
19. Patel, R.C., **Singh P.**, Lal N., (2012) Plio-Quaternary exhumation history of the Garhwal-Kumaon Himalayas, NW-India: An analysis on low-temperature thermochronological data, *Journal of Nepal Geological Society*, Vol. 45, (Sp. Issue) 136-138.
20. Patel, R.C., Adlakha, V., Lal, N., **Singh, P.**, Kumar, Y., (2011a). Spatiotemporal variation in exhumation of the crystalline in the NW-Himalaya, India: Constraints from Fission Track dating analysis. *Tectonophysics*, Vol. 504, pp 1-13. Doi:[10.1016/j.tecto.2010.11.011](http://dx.doi.org/10.1016/j.tecto.2010.11.011)
21. Patel, R.C., Adlakha, V., **Singh, P.**, Kumar, Y., and Lal, N., (2011b) Geology, Structural and Exhumation history of the Higher Himalayan Crystallines in Kumaon Himalaya, India. *Journal of Geological Society of India*, Vol. 77, pp 47-72. Doi:[10.1007/s12594-011-0008-5](http://dx.doi.org/10.1007/s12594-011-0008-5)
22. Patel, R.C., Sinha, H.N., Kumar, A., **Singh, P.**, (2014), Basin Provenance and post-depositional thermal history along the continental P/T boundary of the Raniganj Basin, eastern India: Constraints from apatite fission track dating, *Journal of Geological Society of India*. 83(4), 403-413.

(b) Non-SCI Articles NIL

(c) Chapter in Books: Three (with google scholar citations)

1. **Singh P.**, Aliba Ao, S. S. Thakur, Shruti Rana, R. Sharma, A. K. Singh, S. Singhal (2020) Geology, Structural, Metamorphic and Mineralization studies along the Mandi-Kullu-Manali-Rohtang section of Himachal Pradesh, NW-India. **In: Mukherjee S. (Ed) Structural Geology & Tectonics Field Guidebook. Springer Nature Switzerland AG. Place/city of publication. pp. XX. ISBN: ISBN 978-3-030-60142-3.**
2. **Singh, P.**, Sethy, P.C., Rastogi, H., Singh, M.R., Singh, A.K., Thakur, S.S., Singhal S., (Accepted) Geological field observations along the Pandoh Syncline: the Mandi-Kataula-Bajaura section of Himachal Pradesh, NW-India Chapter in S. Mukherjee edited *Structural Geology & Tectonics Field Guidebook (Vol. 2) ISBN 978-3-030-60142-3*
3. **Singh P.**, (2020) Structural field photographs with detail caption and interpretation in *Atlas of Structural Geology published by springer book.*

(d) Books-authored/Edited volume: NIL

(e) Extended abstract published: Five (with google scholar citations)

1. **Singh, P.** (2017), Tectonics implications of U-Pb (Zircon) Geochronology of the Chor Granitoids of the Lesser Himalaya, Himachal Pradesh, NW-India, Poster presentation in AGU annual fall meeting 2017 on 11-15th Dec. 2017.
2. **Singh P.,** and Patel R.C., (2015), Formation of Main Boundary Thrust (MBT) and its role in exhumation of the Amritpur granite in Kumaon Himalaya, Poster Presentation in 30th HKT held at WIHG on 6-8th Oct. 2015.
3. Patel, R.C., **Singh P.,** Lal N., (2012) Plio-Quaternary exhumation history of the Garhwal-Kumaon Himalayas, NW-India: An analysis on low-temperature thermochronological data, The 27th Himalaya-Karakoram-Tibet Workshop (HKT), pp.136-138.
4. **Singh, P.,** (2010), Plio-Quaternary Exhumation of Higher Himalayan Crystalline along the Pindari River, NW India: Constrained from Apatite Fission track analysis. Poster presentation in Indian Geophysical Union (IGU) held at Osmania University, Hyderabad, from 8 – 10th December 2010 and **gets 3rd prize as best poster in the conference.**
5. Patel,R.C., Adlakha, V., **Singh, P.,** and Lal, N., (2010) Tectonic Control on the late stage exhumation of the Higher Himalayan Crystalline, Northeast Himalaya: Constraints from fission track data, Poster presentation in 25th HKT held at San Francisco (USA) from 3rd to 7th June 2010.

(f) Reports/Other Documents: Three

1. Annual Progress report of Institute project for years 2015-2017, 2017-2020
2. Annual Progress report of Activity I A (Institute project) 2020-2024
3. Annual progress report of sponsored project on yearly basis, submitted to SERB, New Delhi.

(g) Articles in Proceeding Volumes: 4 (with google scholar citations)

1. Proceedings of the Indian National Science Academy, 2016 83, 1-24.
2. Proceedings of the Indian National Science Academy, 2024a -- ----
3. Proceedings of the Indian National Science Academy, 2024b -- ----
4. Proceedings of the Indian National Science Academy, 2024c -- ----

For any Query related to research contact/write to me:

Dr. Paramjeet Singh, Scientist (WIHG)

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