
Dr. Vivek Negi

Scientist, Climate & Water Resources

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PROFILE

Hydrologist studying how retreating glaciers and changing monsoons affect springs and rivers in the Himalaya, and turning that science into village-level water plans.

Research interests: Mountain hydrology · springshed management · climate adaptation · remote sensing

EDUCATION

Ph.D., Environmental Science · 2012 – 2017

Doon Valley Institute of Earth Sciences

Thesis: Spring discharge under a changing monsoon

M.Sc., Environmental Science · 2010 – 2012

Garhwal Hills University

B.Sc., Geology, Chemistry, Botany · 2007 – 2010

Garhwal Hills University

RESEARCH EXPERIENCE

Scientist C · 2019 – Present

Himalayan Institute of Environment and Development

- › Run a network of 140 monitored springs across 3 districts.
- › Co-designed springshed plans adopted by 60 village councils.

Project Scientist · 2017 – 2019

Himalayan Institute of Environment and Development

- › Mapped glacier change for 12 basins from satellite data.
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PUBLICATIONS

- [1] Rao, S., Fischer, A., **Negi, V.**, & Chen, L. (2026). Understanding groundwater recharge structures. *Journal of Himalayan Environmental Studies*, 9(7), 727–749.
- [2] Iyer, M., & **Negi, V.** (2026). New approaches to crop-residue burning and PM2.5. *Proceedings of the Indian Ecology Congress*, pp. 801–813.
- [3] Chen, L., Gupta, R., **Negi, V.**, & Rao, S. (2026). New approaches to mangrove restoration. *Water Resources and Climate*, 29(11), 559–572.
- [4] **Negi, V.**, & Sato, Y. (2025). Understanding groundwater recharge structures. *Journal of Himalayan Environmental Studies*, 6(3), 109–119.
- [5] **Negi, V.**, Banerjee, P., & Menon, V. (2025). Towards mangrove restoration. *Journal of Himalayan Environmental Studies*, 16(11), 734–755.
- [6] Mensah, K., Fischer, A., **Negi, V.**, & Rao, S. (2025). A study of glacier retreat and spring discharge. *Air Quality Research Letters*, 45(5), 382–390.
- [7] Sato, Y., Banerjee, P., Okafor, D., & **Negi, V.** (2024). Rethinking crop-residue burning and PM2.5. *Proceedings of the Indian Ecology Congress*, pp. 183–193.
- [8] **Negi, V.**, Mensah, K., Menon, V., & Okafor, D. (2024). Measuring wetland carbon storage. *Water Resources and Climate*, 36(1), 151–164.
- [9] Banerjee, P., Mensah, K., & **Negi, V.** (2024). Towards urban heat islands in tier-2 cities. *Proceedings of the Indian Ecology Congress*, pp. 618–631.
- [10] **Negi, V.**, Okafor, D., & Kim, J. (2023). New approaches to groundwater recharge structures. *Air Quality Research Letters*, 10(8), 432–444.
- [11] Gupta, R., **Negi, V.**, & Menon, V. (2023). Designing for urban heat islands in tier-2 cities. *Air Quality Research Letters*, 7(8), 604–618.

- [12] **Negi, V.**, Menon, V., Okafor, D., & Fischer, A. (2023). Evidence on crop-residue burning and PM2.5. *Air Quality Research Letters*, 31(6), 89–98.
- [13] Banerjee, P., Rao, S., **Negi, V.**, & Chen, L. (2022). Revisiting glacier retreat and spring discharge. *Journal of Himalayan Environmental Studies*, 14(4), 479–487.
- [14] Menon, V., & **Negi, V.** (2022). Towards groundwater recharge structures. *Water Resources and Climate*, 36(4), 767–779.
- [15] Rao, S., & **Negi, V.** (2022). Revisiting wetland carbon storage. *Proceedings of the Indian Ecology Congress*, pp. 810–819.
- [16] Haddad, N., **Negi, V.**, & Sato, Y. (2021). Scaling mangrove restoration. *Journal of Himalayan Environmental Studies*, 25(9), 761–773.

CONFERENCE PRESENTATIONS & INVITED TALKS

- › Invited talk: “Towards groundwater recharge structures”, Proceedings of the Indian Ecology Congress, Boston, 2026.
- › Seminar: “Scaling crop-residue burning and PM2.5”, Water Resources and Climate, New Delhi, 2026.
- › Poster: “Scaling crop-residue burning and PM2.5”, Proceedings of the Indian Ecology Congress, Bengaluru, 2025.
- › Seminar: “Scaling glacier retreat and spring discharge”, Water Resources and Climate, Melbourne, 2025.
- › Invited talk: “Measuring groundwater recharge structures”, Symposium on Himalayan Environmental Studies, Berlin, 2024.
- › Seminar: “Towards wetland carbon storage”, Water Resources and Climate, Boston, 2024.

TEACHING

- › Guest lectures in hydrology for M.Sc. students (2019–present)
- › Training of 200 para-hydrogeologists from local communities

GRANTS, AWARDS & HONOURS

- › Co-PI, national mission on Himalayan ecosystems (2020–2025), ₹2.3 crore
- › Young Scientist Award, state science council (2021)

PROFESSIONAL SERVICE

- › Member, state expert committee on springs (2022–present)
- › Reviewer, Water Resources and Climate

SKILLS

Field: Discharge measurement, isotope sampling, hydrogeological mapping

Analysis: QGIS, Google Earth Engine, R, SWAT model

Languages: Garhwali (native), Hindi, English

REFERENCES

Dr. P. Rawat

Director, Himalayan Institute of Environment and Development
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Prof. L. Joshi

Professor, Doon Valley Institute of Earth Sciences
l.joshi@institute.edu