

Recent Faculty Publications

- 2024 **Panthi, J.**, Boving, T.B., Pradhanang, S.M., Russonello, C., Kang, S. The contraction of freshwater lenses in barrier islands: A combined geophysical and numerical analysis. *Journal of Hydrology*. <https://doi.org/10.1016/j.jhydrol.2024.131371>
- 2024 **Panthi, J.**, Boving, T., Pradhanang, S.M. and Ismail, M., Time-lapse geophysical measurements for monitoring coastal groundwater dynamics in an unconfined aquifer. *Groundwater*. <https://doi.org/10.1111/gwat.13382>
- 2024 **Panthi, J.**, Spinti, R., Exploring Freshwater Beneath the Ocean Floor, *Groundwater*. <https://doi.org/10.1111/gwat.13446>
- 2024 Bista, S., Baniya, R., Sharma, S., Ghimire, G.R., **Panthi, J.**, Prajapati, R., Thapa, B.R., and Talchabhadel, R. Hydrologic applicability of satellite precipitation estimates for irrigation water management in the data-scarce region. *Journal of Hydrology*. <https://doi.org/10.1016/j.jhydrol.2024.131310>
- 2024 Baniya, R., Regmi, R.K., Talchabhadel, R., Sharma, S., **Panthi, J.**, Ghimire, G.R., Bista, S., Thapa, B.R., Pradhan, A.M.S., Tamrakar, J. Integrated modeling for assessing climate change impacts on water resources and hydropower potential in the Himalayas. *Theoretical and Applied Climatology* <https://doi.org/10.1007/s00704-024-04863-4>
- 2023 Baniya, R., Talchabhadel, R., **Panthi, J.**, Ghimire, G.R., Sharma, S., Khadka, P.D., Shin, S., Pokhrel, Y., Bhattarai, U., Prajapati, R., Thapa, B.R., Maskey, R.K. Nepal Himalaya offers considerable potential for pumped storage hydropower. *Sustainable Energy Technology and Assessments*, 103423. <https://doi.org/10.1016/j.seta.2023.103423>
- 2023 **Panthi, J.**, Johnson, C.D., Pradhanang, S.M., Savage, B., Ismail, M.Y., Boving, T.B. Delineating bedrock topography with geophysical techniques: An implication for groundwater mapping. *Catena*, 107258. <https://doi.org/10.1016/j.catena.2023.107258>
- 2023 **Panthi, J.**, Spinti, R.A. Space Heating and Cooling with the Energy Below Our Feet. *Groundwater* 61, 171–172. <https://doi.org/10.1111/gwat.13294>
- 2022 **Panthi, J.**, Pradhanang, S.M., Nolte, A., Boving, T.B. Saltwater intrusion into coastal aquifers in the contiguous United States — A systematic review of investigation approaches and monitoring networks. *Science of the Total Environment*. 155641. <https://doi.org/10.1016/j.scitotenv.2022.155641>
- 2022 **Panthi, J.**, Spinti, R.A. The Waiwhetu aquifer: A layered cake tin. *Groundwater*. <https://doi.org/10.1111/gwat.13281>
- 2022 Sharma, S., Dahal, K., Nava, L., Gouli, M.R., Talchabhadel, R., **Panthi, J.**, Roy, T., Ghimire, G.R. Natural Hazards Perspectives on Integrated, Coordinated, Open, Networked (ICON) Science. *Earth and Space Science*. 9. <https://doi.org/10.1029/2021EA002114>
- 2022 Sharma, S., Ghimire, G.R., Talchabhadel, R., **Panthi, J.**, Lee, B.S., Sun, F., Baniya, R., Adhikari, T.R. Bayesian characterization of uncertainties surrounding fluvial flood hazard estimates. *Hydrological Science Journal* <https://doi.org/10.1080/02626667.2021.1999959>