Jeeban Panthi, Ph.D.

Postdoctoral Research Fellow
Watershed Modeling Lab, Department Bio. & Agri. Engineering, Kansas State University
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EDUCATION

2017- 2023 Ph.D. in Earth and Environmental Science (Focus: Hydrogeology)
Department of Geosciences, University of Rhode Island, Kingston RI
Advisor: Dr. Thomas B. Boving
Dissertation: Groundwater Dynamics in an Unconfined Coastal Aquifer: Geophysical Investigations and Modeling
Graduation: Spring 2023

2009-2011 M.Sc. in Environmental Science, Tribhuvan University, Kathmandu, Nepal
Supervisor: Dr. Dhiraj Pradhananga
Thesis: Renewable Energy Technology for Reducing Greenhouse Gas Emission

2006-2008 B.Sc, Environmental Science, Tribhuvan University, Kathmandu, Nepal
Supervisor: Dr. Ramesh Prasad Sapkota
Research: Biodiversity Assessment of Chitwan National Park, Nepal

RESEARCH AND PROFESSIONAL EXPERIENCE

Appointments

2023-Now Postdoctoral Fellow, Kansas State University, Department of Biological and Agricultural Engineering, Manhattan, Kansas (June 2023)
2017-2023 Grad Research/Teaching Assistant, University of Rhode Island, Department of Geosciences
2012-2017 Research Coordinator, The Small Earth Nepal, Kathmandu, Nepal

Internships

2019 Summer: Communication Intern for Deep Carbon Observatory (DCO) at the University of Rhode Island (Dr. Robert Pockalny)
2016 Research Internship at Tongji University, China, as a part of UNEP/PROVIA Young Scientist Fellowship (Prof Fengting Li)

Technical Skills

Programming Languages: Python, R (Working knowledge)
GI Science: ArcGIS, QGIS, SAGA, GRASS

Hydro(geo)logical Modeling: MODFLOW, SEAWAT, SWAT+, GLM, Data-driven modeling (ML)
Equipment: Electrical Resistivity, GPR, RTK (GNNS), Flow meter, Seismogram

PUBLICATIONS

Peer-Reviewed Articles

2024 Baniya R., Regmi, R.K., Talchabhadel, R., Sharma, S., **Panthi, J.**, Ghimire, G.R., Bista, S., and Thapa, B.R. 2024: 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 **Panthi, J.**, Boving, T., Pradhanang, S.M. and Ismail, M. (2023), Time-lapse geophysical measurements for monitoring coastal groundwater dynamics in an unconfined aquifer. Groundwater. https://doi.org/10.1111/gwat.13382

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., 2023. Nepal Himalaya offers considerable potential for pumped storage hydropower. Sustain. Energy Technol. 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., 2023. 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., 2023. 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., 2022. Saltwater intrusion into coastal aquifers in the contiguous United States — A systematic review of investigation approaches and monitoring networks. Sci. Total Environ. 155641. https://doi.org/10.1016/j.scitotenv.2022.155641

2022 **Panthi, J.**, Spinti, R.A., 2022. 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., 2022. Natural Hazards Perspectives on Integrated, Coordinated, Open, Networked (ICON) Science. Earth Sp. Sci. 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., 2021. Bayesian characterization of uncertainties surrounding fluvial flood hazard estimates. Hydrol. Sci. J. https://doi.org/10.1080/02626667.2021.1999959

2021 **Panthi, J.**, Talchabhadel, R., Ghimire, G.R., Sharma, S., Dahal, P., Baniya, R., Boving, T., Pradhanang, S.M., Parajuli, B., 2021. Hydrologic Regionalization under Data Scarcity: Implications for Streamflow Prediction. J. Hydrol. Eng. 26, 05021022. https://doi.org/10.1061/(ASCE)HE.1943-5584.0002121

2021 Talchabhadel, R., Ghimire, G.R., Sharma, S., Dahal, P., **Panthi, J.**, Baniya, R., Pudashine, J., Thapa, B.R., Shakti, P.C., Parajuli, B., 2021a. Weather radar in Nepal: opportunities and challenges in a mountainous region. Weather wea.3994. https://doi.org/10.1002/wea.3994

2021 Shin, S., Pokhrel, Y., Talchabhadel, R., **Panthi, J.**, 2021. Spatio-temporal dynamics of

hydrologic changes in the Himalayan river basins of Nepal using high-resolution hydrological-hydrodynamic modeling. J. Hydrol. 126209. https://doi.org/10.1016/j.jhydrol.2021.126209

2021 Talchabhadel, R., **Panthi, J.**, Sharma, S., Ghimire, G.R., Baniya, R., Dahal, P., Baniya, M.B., K.C., S., Jha, B., Kaini, S., Dahal, K., Gnyawali, K.R., Parajuli, B., Kumar, S., 2021. Insights on the Impacts of Hydroclimatic Extremes and Anthropogenic Activities on Sediment Yield of a River Basin. Earth 2, 32–50. https://doi.org/10.3390/earth2010003

2020 Dahal P, Shrestha ML, **Panthi J**, Pradhananga D (2020) Modeling the future impacts of climate change on water availability in the Karnali River Basin of Nepal Himalaya. Environ Res 185:109430. doi: https://doi.org/10.1016/j.envres.2020.109430

2020 Ghimire GR, Sharma S, Panthi J, et al (2020) Benchmarking Real-Time Streamflow Forecast Skill in the Himalayan Region. Forecasting 2:230–247. doi: https://doi.org/10.3390/forecast2030013

2019 **Panthi, J.**, Khatiwada, K.R., Shrestha, M.L., Dahal, P., 2019. Water poverty in the context of climate change: a case study from Karnali river basin in Nepal Himalaya. Int. J. River Basin Manag. 17, 243–250. https://doi.org/10.1080/15715124.2018.1531421

2018 Aryal, S., **Panthi, J.**, Dhakal, Y.R., Gaire, N.P., Karki, K., Joshi, N.R., 2018. Historically evolved practices of the Himalayan transhumant pastoralists and their implications for climate change adaptation. Int. J. Glob. Warm. 14. https://doi.org/10.1504/IJGW.2018.090402

2017 **Panthi, J.**, Li, F., Wang, H., Aryal, S., Dahal, P., Ghimire, S., Kabenge, M., 2017. Evaluating climatic and non-climatic stresses for declining surface water quality in Bagmati River of Nepal. Environ. Monit. Assess. 189. https://doi.org/10.1007/s10661-017-6000-9

2016 **Panthi, J.**, Aryal, S., Dahal, P., Bhandari, P., Krakauer, N.Y., Pandey, V.P., 2016. Livelihood vulnerability approach to assessing climate change impacts on mixed agro-livestock smallholders around the Gandaki River Basin in Nepal. Reg. Environ. Chang. 16. https://doi.org/10.1007/s10113-015-0833-y

2016 Khatiwada, K., **Panthi, J.**, Shrestha, M., Nepal, S., 2016. Hydro-Climatic Variability in the Karnali River Basin of Nepal Himalaya. Climate 4, 17. https://doi.org/10.3390/cli4020017

2016 Dahal, P., Shrestha, N.S., Shrestha, M.L., Krakauer, N.Y., **Panthi, J.**, Pradhanang, S.M., Jha, A., Lakhankar, T., 2016. Drought risk assessment in central Nepal: temporal and spatial analysis. Nat. Hazards 80. https://doi.org/10.1007/s11069-015-2055-5

2015 **Panthi, J.**, Krakauer, N., Pradhanang, S., 2015. Sharing Climate Information in the Himalayas. Eos (Washington. DC). 96. https://doi.org/10.1029/2015EO033827

2015 Krakauer, N., Pradhanang, S., **Panthi, J.**, Lakhankar, T., Jha, A., 2015. Probabilistic Precipitation Estimation with a Satellite Product. Climate 3, 329–348. https://doi.org/10.3390/cli3020329\

2015 **Panthi, J.**, Dahal, P., Shrestha, M.L., Aryal, S., Krakauer, N.Y., Pradhanang, S.M., Lakhankar, T., Jha, A.K., Sharma, M., Karki, R., 2015a. Spatial and Temporal Variability of Rainfall in the Gandaki River Basin of Nepal Himalaya. Climate 3, 210–226. https://doi.org/10.3390/cli3010210

Works in Progress

2023 **Panthi, J.**, Boving, T.B., Pradhanang, S.M., Russonello, C., Kang, S. 2023: The

contraction of freshwater lenses in barrier islands: A combined geophysical and numerical analysis *Journal of Hydrology (In Review)*
Preprint available at: https://papers.ssrn.com/sol3/papers.cfm?abstract_id=4555666

2023 Bista, S., Baniya, R., Sharma, S., Ghimire, G.R., **Panthi, J.**, Prajapati, R., Thapa, B.R., and Talchabhadel, R. 2023: Hydrologic applicability of satellite precipitation estimates for irrigation water management in the data-scarce region. *Journal of Hydrology* (In review)

Conference Abstracts and Presentations (Selected and first author only)

2023 **Panthi, J**., Moore, T., Sheshukov, A., *Synergy in simulation: Integrating watershed, lake and climate models for nutrient dynamics in Midwest heartland reservoirs*, AGU Fall Meeting 2023 [Poster]

2023 **Panthi, J**., Boving. T., Pradhanang, S., Coastal Groundwater Under Threats: Exploring the Impact of Drought on Freshwater Availability, International Graduate Student Showcase at the University of Rhode Island, May 2023 [Poster, awarded the first place in poster competition)

2022 **Panthi, J**., Boving. T., Pradhanang, S., Ismail, M., McCarron, B., Motta S., Estimating the fresh Submarine Groundwater Discharge using time-lapse electrical resistivity imaging, AGU Fall Meeting 2022 [Poster]

2022 **Panthi, J.**, Boving, T., Pradhanang, S., Kang, S., Coastal aquifer's vulnerability to drought-a case study from 2020 Northeast drought, Frontiers in Hydrology Meeting, 20-24 June 2022, Puerto Rico [Oral]

2021 **Panthi, J.**, Boving, T., Pradhanang, S., Ismail, M, Tracking the Saltwater-Freshwater Interface with Geophysical Technique and Numerical Modeling, AGU Fall Meeting, 13-17 December 2021, New Orleans, Louisiana [Oral]

2021 **Panthi, J.**, Boving, T., Pradhanang, S., Ismail, M, Mapping seasonality in saltwater intrusion: Geophysical investigation and numerical modeling, 48th IAH Congress, 6-10 September 2021, Brussels, Belgium [Oral]

2019 **Panthi, J.,** Boving, T.B., Pradhanang, S. M., Engelhart, S., Ismail, M. (2019), *Sea level and storm event effects to groundwater in southern Rhode Island*, Geological Society of America (GSA) Northeast Section Meeting, 17-19 March 2019, Portland, Maine [Oral]

2019 **Panthi,** J., Boving, T.B., Pradhanang, S. M., Ismail, M. (2019), *Coupling GPR and ERT Techniques for Delineating Saltwater-Freshwater Interface in a Coastal Aquifer*, GSA Annual Meeting, 22-25 September 2019, Phoenix, Arizona [Poster]

2019 **Panthi, J**., Boving, T.B., Pradhanang, S. M., Young, K., Ismail, M. (2019), *Saltwater intrusion investigation using geophysical techniques in Southern Rhode Island*, AGU Fall Meeting, 9-13 December 2019, San Francisco, California [Poster]

2019 **Panthi, J.**, Rainwater harvesting suitability map: A climate adaptation approach in mountainous basin of the Himalayas, AGU Fall Meeting, 9-13 December 2019, San Francisco [Invited talk]

2018 **Panthi, J**., Pradhanang, S. M., Boving, T.B., Ismail, M. (2018), *Effects of precipitation intensity on groundwater recharge: Multiple approach analysis for Rhode Island*,

American Geophysical Union (AGU) Fall Meeting, 10-14 December 2018, Washington DC [Poster]

Stories, Reports, and Blog Posts

2021 My Career Path Following Water from the Mountain to the Sea and Across an Ocean, *Journal of Stories in Science* (July 8, 2021), https://storiesinscience.org/2021/07/08/my-career-path-following-water/

2018 Is climate change increasing the number of hurricanes we get, and will we continue seeing more hurricane damage? *Envirobites* (December 13, 2018)

2018 Soil in the Succotash Marsh, Rhode Island: Coring for clues to past coastal storms, *Envirobites* (November 28, 2018)

2018 Sea-Level Rise won't affect every place in the same way, *Envirobites* (November 6, 2018)

2015 Proceedings of International Conference on International Conference on Climate Change Innovation and Resilience for Sustainable Livelihood, Kathmandu, Nepal.

Media Coverage

2023 New Orleans's Saltwater Intrusion Scare Is a Reminder of a Nationally Looming Threat, *Sierra – The Magazine of the Sierra Club*
https://www.sierraclub.org/sierra/new-orleans-s-saltwater-intrusion-scare-reminder-nationally-looming-threat [Interviewed and paper referenced]

2023 Saltwater threat to Louisiana drinking water to grow across US, experts warn, *The Guardian*
https://www.theguardian.com/us-news/2023/oct/10/louisiana-drinking-water-saltwater-mississippi-river [Interviewed]

2022 Saltwater Intrusion, a "Slow Poison" to East Coast Drinking Water, *Circle of Blue*
https://www.circleofblue.org/2022/world/saltwater-intrusion-a-slow-poison-to-east-coast-drinking-water/ [Interviewed and my paper referenced]

2022 ICON Principle underused as a natural hazard research tool, *AGU's EOS Highlights*
https://eos.org/research-spotlights/icon-principles-underused-as-a-natural-hazards-research-tool [Coverage of an article]

2022 New Study to Examine Block Island's Freshwater Supply, *The Westerly Sun*
https://www.thewesterlysun.com/news/westerly/new-study-to-examine-block-island-s-freshwater-supply/article_d0a06f00-4dc0-11ec-b9ce-f71572c72d75.html [Featured with my professor]

2020 URI scientists assess saltwater intrusion into well water, *URI Today*
Link: https://today.uri.edu/news/uri-scientists-assess-saltwater-intrusion-into-well-water/ [Interviewed]

2020 URI researchers track groundwater discharges into salt ponds, *URI Today*
Link: https://today.uri.edu/news/uri-researchers-track-groundwater-discharges-into-salt-ponds/ [Featured with professor]

2019 My OTF Experience: Jeeban Panthi, *GSA Foundation*
Link: https://rb.gy/mqvbpe [Interviewed]

2016 Adaptation Futures Conference - Introduction Film [Featured in a movie]
Link: https://www.youtube.com/watch?v=ssPO2gmu7jI

TEACHING AND MENTORSHIP

Teaching Experiences

2024 Spring Teacher/Mentor for Natural Resource and Environmental Science (NRES) Capstone Course at Kansas State University

2022 Fall Teaching Assistant for *Understanding the Earth* (Geo103) course at Geosciences Department of University of Rhode Island (Prof. Laliberte)

2022 Spring Teaching Assistant for *Environmental Hydrogeology* (Geo584) at Geosciences Department at the University of Rhode Island (Prof. Boving)
Co-developed the lab syllabus, special contribution on well tracer test

2022 Spring Teaching Assistant for *Global Climate Change* (GEO305G) at Geosciences Department at the University of Rhode Island (Prof. Savage)

2021 Spring Teaching Assistant for *Landform: Origin and Evolution* (GEO210) at Geosciences Department at the University of Rhode Island (Prof. Laliberte)

2020 Fall Teaching Assistant for *Watershed Hydrology (NRS461)* course at the Natural Resource Science Department at the University of Rhode Island (Prof. Gold)

2019-20 Fall Teaching Assistant for *Soil Geomorphology and Mapping (NRS471)* course at the Natural Resource Science Department at the University of Rhode Island (Prof. Stolt)

2019 Spring Teaching Assistant for *Global Climate Change (GEO305)* course at Geosciences Department at the University of Rhode Island (Prof. Pradhanang)

2019 Spring Teaching Assistant for *Understanding the Earth (GEO103)* course at the Geosciences Department at the University of Rhode Island (Prof. Laliberte)

2019 Fall Teaching Assistant for *Natural Resource Conservation (NRS100)* course at the Natural Resource Science Department at the University of Rhode Island (Prof. Still)

2020-21 Fall Guest Lecture – *Saltwater Intrusion in Coastal Aquifer* for the course Watershed Hydrology (NRS461) at the Natural Resource Science Department at the University of Rhode Island (Prof. Gold)

2019 Fall Guest Lecture – *Statistical Analysis of Breakthrough Curve* for the course Environmental Hydrology (GEO584) at the Geosciences Department at the University of Rhode Island (Prof. Boving)

Course Syllabus and Content Development

2022 Spring Lab Manual for estimating hydrogeological parameters with point dilution test, Co-developed the manual (Geo-584) with Prof. Boving

2020 Summer Online content development for the course Watershed Hydrology (NRS-418), with Prof. Gold

Mentorships

2023 Spring **Kylie Plitt**, Undergraduate Research Assistant: Groundwater mapping using geospatial information for the southern coast of Rhode Island (Prof. Pradhanang, Panthi as mentor)

Liz Niedermeyer, Undergraduate Research Assistant (Engineering), Developing a sand tank groundwater model to simulate saltwater intrusion (Prof. Boving, Panthi as mentor)

2022 Summer **Sophia Motta**, CELS Coastal Fellow (Panthi as co-mentor with Dr. Boving) Estimating fresh groundwater discharge in Ninigret coastal pond using seepage meter.

2022 Spring **Yerial Cruz** – Undergraduate Research Assistant: Groundwater-seawater interaction in a phreatic aquifer (Dr. Boving)

2021 Summer **Brandon Dipanfilo** – Undergraduate Research Assistant: Application of geophysical techniques in mapping coastal groundwater (Dr. Pradhanang and Dr. Savage)

2020 Summer **Lisy Cid Mota** – Undergraduate Research (SURF-NSF Fellow): Electrical Resistivity Survey for Saltwater Mapping and Lab analysis of aquifer samples (Prof. Pradhanang)

2019 Summer **Kyle Kirby**-Undergraduate Research: Floating Wetland Island for Water Quality Improvement (Prof. Pradhanang)

2019 Spring **Logan Thomas** – Undergraduate Research: Application of GPR for Coastal Aquifer Mapping (Prof. Boving)

2018 Fall **Marissa Weinstein**-Undergraduate Research: Spatial Variation of Salinity in the Surface and Groundwater of Little Compton, RI (Prof. Boving)

Guest Lectures

2023 Fall *River Runoff: An Important Component of a Hydrological Cycle*, Kansas State University (Prof. Flippo)

2023 Spring *The Science Behind Sea Level Rise*, Department of Geosciences, University of Rhode Island (Prof. Pradhanang)

2022 Fall *Safe Yield of Aquifers and Water-Energy-Food Nexus in Global Scale*, Department of Geoscience, University of Rhode Island

2021 Fall *Saltwater Intrusion – A Slow Poison to Coastal Groundwater*, Department of Natural Resource Science, University of Rhode Island

2017 Spring *Current State and Future Direction of Research in Environmental Science*, Tri-Chandra Multiple Campus, Tribhuvan University, Nepal

AWARD, GRANTS AND HONORS

Awards and Fellowships

2024 **NRES Research Fellow,** Kansas State University Natural Resource and Environmental Science, 2024 Spring ($1500).

2023 **Best Poster Award,** International Graduate Student and Scholars Conference – 2023/5/18, University of Rhode Island Graduate School ($300)

2021 John J. Fisher Award for Excellence in Grad Teaching, **University of Rhode Island, Department of Geosciences** ($300)

2020 Paul M. Yaniga Memorial Award for Young Hydrologist, **PMY Memorial Foundation** ($1500)

2020 Professional Pathways Award, **Geological Society of America (GSA) and University of Arkansas** ($500)
2019 Enhancement of Graduate Research Award**, University of Rhode Island, Graduate School** ($1,000)
2018 Best Poster Award, **RI Clean Water Symposium, University of Rhode Island**
2016 PROVIA Young Scientist Fellowship, **United Nations Environment Program** (~$15,000)
2014 Berkner Travel Fellowship, **American Geophysical Union (AGU)** (~$7,500)

Research Grants

2021	Graduate Student Research Grant, **Geological Society of America (GSA) (2020/21)** (PI: J. Panthi)	$3,450
2020	Mapping Bedrock and Saltwater Intrusion in Rhode Island, **United States Geological Survey** (PI: Brian Savage, assisted in grant writing)	$130000
2019	Centennial Grant, **American Geophysical Union (AGU)**	$1,300
2017	Rainwater Harvesting for Mitigating Drought in Western Nepal, **Asia Pacific Network for Global Change Research**, Japan (PI: J. Panthi), https://doi.org/10.30852/p.4568	$29,885
2014	TIRI Grant: Vegetation mapping using remotely sensed data – an implication for livestock management in the Gandaki basin in the Nepal Himalayas, **USAID Feed the Future Innovation Lab** (PI: J. Panthi)	$15,000
2014	Adaptation for Climate Change by Livestock Smallholders in Gandaki River Basin in Nepal Himalaya, **USAID Feed the Future** (PI: Nir Krakauer, Collaborator: J. Panthi)	$451,000
2013	Runoff Scenario and Water Based Adaptation Strategies in South Asia, **Asia Pacific Network for Global Change Research** (PI: Madan Shrestha, Co-PI: J. Panthi)	$92,000
2012	Preparation of Next Generation Leadership in Sustainability: An Approach in the Asia Pacific Region, **Asia Pacific Network for Global Change Research** (PI: Dhiraj Pradhananga, Collaborator: J. Panthi)	$45,000
2009	MSc. Dissertation Research Grant, **Center of Research for Energy Environment and Water (CREEW)**	~$400

Travel Grants

2023	COLDEX travel grant, **Early Career Leadership Workshop** (Oregon State University)	$1,050
2023	NSF travel grant, **Reactive Transport Modeling** training (Colorado School of Mines)	~$1,000
2023	NSF/SWISLR travel grant to attend **All-hands meeting** (Duke University)	~$2,000
2022	GSA travel grant, **Professional Development Pathways** (GSA Meeting)	$700
2022	UNAVCO travel grant for short course: **SfM and GNSS Methods**	$500
2022	AGU travel grant for **Frontiers in Hydrology Meeting**	$1,000
2021	AGU student travel grant for Fall Meeting 2021	$1,000
2021	Travel Grant, **NSF Critical Zone Research Coordinating Network**	$600
2021	Travel Grant, US Chapter **International Association of Hydrogeologists (US IAH)**	$2,000
2019	GAU Travel Grant (AGU 2019), **University of Rhode Island**	$250
2019	CELS Dean's Travel Grant to attend GSA conference, **University of Rhode Island,**	$300
2019	Urban Travel Grant, **Geological Society of America**	$767
2019	Travel Grant to attend Hydro-informatics conference, UT, Consortium of Universities for the Advancement of Hydrologic Science (CUAHSI)	$750

PROFESSIONAL SERVICES

Co-Editor/Columnist

Groundwater Journal, 'Media Spotlight' Column with Rachel Spinti (University of Arizona)

- How groundwater flows around structures, doi: 10.1111/gwat.13262
- Introducing Media Spotlight Column, doi: 10.1111/gwat.13220

Journal Reviewer (Major only)

Journal of Hydrology; Hydrogeology Journal; Advances in Water Resources; Water Resource Research; Groundwater; Earth Systems and Environment; Water Policy; Climate Dynamics; Climate and Development; Environmental Development; Development and Sustainability; Weather, Climate, and Society; Theoretical and Applied Climatology; Frontier in Earth Science.

Scientific Proposal Reviewer

Expert Reviewer for the funding opportunity under Collaborative Regional Research Programme (CRRP), Asia Pacific Network for Global Change Research (APN)

Session Co-convenor

NH021 Hydroclimatic Disasters in Data-Scarce Regions: Interfacing Science and Policy, AGU Fall Meeting 2023
H064 – Hydroclimatic Modeling, Analyses, and Projections in the South and Southeast Asia: Challenges and Opportunities, AGU Fall Meeting 2022
H41D – Hydroclimatic Modeling, Analyses, and Projections in the South Asia: Challenges and Opportunities, AGU Fall Meeting 2021
Groundwater Quality Commission Meeting: Exploring Challenging in Global Data Collection and Standardization, 48th Congress of International Association of Hydrogeologists (IAH), Brussels, Belgium, 2021

Conference Poster Reviewer

2017-2023 AGU (OSPA) Undergraduate Poster Evaluation (Hydrology Section)
2019-2022 GSA Undergraduate Poster Evaluation (Hydrogeology Section)

Coach Scientist

2022 Science translation – Metcalf Institute 24th Science Immersion Workshop for Journalist

Student Rep

2019/20 Grad Student Rep – URI Biological and Environmental Science SCAD committee

Research Volunteer

2018-22 Volunteer Data Analyst for Groundwater Salinity Mapping in Little Compton Town, Rhode Island (Little Compton Conservation Commission)

Professional Associations/Memberships

2020 – Present	International Association of Hydrogeologists (IAH), active role with Groundwater Quality Commission as Communication Focal Point https://gwquality.iah.org
2014 – Present	American Geophysical Union (AGU)
2018 – Present	Geological Society of America (GSA)
2015 – Present	Society of Hydrologists and Meteorologists (SOHAM-Nepal)