
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

- 2023-2025 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 (Intermediate), R (Working knowledge)

GI Science: ArcGIS, QGIS

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

PUBLICATIONS

Peer-Reviewed Articles

- 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/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](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 (lead author)

- 2023 Time-lapse geophysical measurements for monitoring coastal groundwater dynamics in an unconfined aquifer (Under Review at *Groundwater Journal*)
- 2023 The squeezing of freshwater lenses in barrier islands: A combined geophysical and numerical analysis (In prep for *Journal of Hydrology*, status: submitting by Sept 2023)
- 2023 Identifying predictors of coastal groundwater head: Time series modeling (in prep for *WATER*, submitting in Oct 2023)

Technical Reports

Panthi, J., Pokhrel, Y. N., Tarannum, F., & Pradhananga, D. (2020). Technical Report: Rainwater Harvesting for Mitigating Drought in Western Nepal. Kobe, Japan: APN
<https://www.apn-gcr.org/publication/project-final-report-crys2017-01my-panthi/>

Conference Abstracts and Presentations (Selected and first author only)

- 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

- 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]
- 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

- 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 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

2023 Best Poster Award, International Graduate Student and Scholars Conference – 2023/5/18, University of Rhode Island Graduate School.

2021 John J. Fisher Award for Excellence in Grad Teaching, University of Rhode Island, Department of Geosciences

2020 Paul M. Yaniga Memorial Award for Young Hydrologist (\$1,500), PMY Memorial Foundation

2020 Professional Pathways Award, Geological Society of America (GSA) and University of Arkansas

2019 Enhancement of Graduate Research Award (\$1,000), University of Rhode Island, Graduate School

2018 Best Poster Award, RI Clean Water Symposium, University of Rhode Island

2016 PROVIA Young Scientist Fellowship (~\$15,000), United Nations Environment Program

2014 Berkner Travel Fellowship (~\$7,500), American Geophysical Union (AGU)

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)	\$130,000
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

201 2	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
200 9	MSc. Dissertation Research Grant, Center of Research for Energy Environment and Water (CREEW)	~\$400

Travel Grants

202 3	NSF travel grant, Reactive Transport Modeling training (Colorado School of Mines)	~\$1000
202 3	NSF/SWISLR travel grant to attend All-hands meeting (Duke University)	~\$2000
202 2	GSA travel grant, Professional Development Pathways (GSA Meeting)	\$700
202 2	UNAVCO travel grant for short course: SfM and GNSS Methods	\$500
202 2	AGU travel grant for Frontiers in Hydrology Meeting	\$1,000
202 1	AGU student travel grant for Fall Meeting 2021	\$1,000
202 1	Travel Grant, NSF Critical Zone Research Coordinating Network	\$600
202 1	Travel Grant, US Chapter International Association of Hydrogeologists (US IAH)	\$2,000
201 9	GAU Travel Grant (AGU 2019), University of Rhode Island	\$250
201 9	CELS Dean's Travel Grant to attend GSA conference, University of Rhode Island ,	\$300
201 9	Urban Travel Grant, Geological Society of America	\$767
201 9	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 (Accepted session)

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

2017-2022 AGU (OSPA) Undergraduate Poster Evaluation (Hydrology Section)

2019-2022 GSA Undergraduate Poster Evaluation (Hydrogeology Section)

Steering Committee Member

2022 – now NSF project on Saltwater Intrusion and Sea Level Rise (PI: Emily Bernhardt, Duke University)

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 web master <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)