

# Chung-Yi Lin, Ph.D.

ASSISTANT PROFESSOR · SCHOOL OF CIVIL AND ENVIRONMENTAL ENGINEERING AND EARTH SCIENCES, CLEMSON UNIVERSITY

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## Education

### Lehigh University

- PH.D. IN CIVIL ENGINEERING

Bethlehem, PA, USA

Aug 2019 - Jan 2023

### National Taiwan University

- M.S. IN BIOENVIRONMENTAL SYSTEMS ENGINEERING

Taipei, Taiwan

Sep 2017 - Feb 2019

### National Taiwan University

- B.S. IN BIOENVIRONMENTAL SYSTEMS ENGINEERING

Taipei, Taiwan

Sep 2014 - Jun 2017

## Research Experiences

### Assistant Professor

- CLEMSON UNIVERSITY, CLEMSON, SC, US  
*School of Civil and Environmental Engineering and Earth Sciences*

Aug 2025 - present

### Postdoctoral Associate

- REED'S RESEARCH GROUP, CORNELL UNIVERSITY, ITHACA, NY, US  
*Supervisor: Dr. Patrick Reed*
- MARSTON'S RESEARCH GROUP, VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY, BLACKSBURG, VA, US  
*Supervisor: Dr. Landon Marston*

Aug 2024 - Aug 2025

Feb 2023 - Aug 2024

### Research Assistant

- COMPLEX ADAPTIVE WATER SYSTEMS LAB., LEHIGH UNIVERSITY, BETHLEHEM, PA, US  
*Advisor: Dr. Ethan Yang*

Sep 2020 - May 2021

### Visiting Scholar/Intern

- INSTITUTE FOR GLOBAL ENVIRONMENTAL STRATEGIES (IGES), HAYAMA, JAPAN
- INSTITUTE OF METEOROLOGY AND CLIMATE RESEARCH ATMOSPHERIC ENVIRONMENTAL RESEARCH (IMK-IFU), GARMISCH-PARTENKIRCHEN, GERMANY
- MICROSOFT STUDENT PARTNER, TAIPEI, TAIWAN

Jun 2019 - Jul 2019

Jul 2018 - Aug 2018

Jun 2017 - Jun 2018

### Training

- CORNELL POSTDOC LEADERSHIP PROGRAM, ITHACA  
*Develop leadership to effectively engage people to work together to achieve organizational, political, or social goals*
- URSSI SUMMER SCHOOL 2024, 24-26 JUNE, WASHINGTON DC  
*Learn about the best practices in open science*

Aug 2024 - Dec 2024

June 2024

## Publications

### PUBLISHED (TOTAL 12)

- Amaya, M., **Lin, C.Y.**, & Marston, L. (2025). Understanding Rural-to-Urban Water Transfers: An Agent-Based and Input-Output Modeling Approach. *Earth's Future*, 13(7), e2024EF004984. <https://doi.org/10.1029/2024EF004984>
- Orduña Alegría, M. E., Zipper, S., Shin, H. C., Deines, J. M., Hendricks, N. P., Allen, J. J., Bohling, G. C., Golden, B., Griggs, B. W., Lauer, S., **Lin, C. Y.**, Marston, L. T., Sanderson, M. R., Smith, S. M., Whittemore, D. O., Wilson, B. B., Yu, D. J., & Yu, Q. C. (2024). Unlocking aquifer sustainability through irrigator-driven groundwater conservation. *Nature Sustainability*, 1–10.

- Lin, C. Y.**, Orduna Alegria, M., Dhakal, S., Zipper, S., & Marston, L. (2024). PyCHAMP: A crop-hydrological-agent modeling platform for groundwater management. *Environmental Modelling & Software*, 181, 106187.
- Lin, C. Y.**, Miller, A., Waqar, M., & Marston, L. (2024). A database of groundwater wells in the United States. *Scientific Data*, 11(1), 335.
- Zhang, J., Yang, Y. C. E., Abeshu, G. W., Li, H., Hung, F., & **Lin, C. Y.** (2024). Exploring the food-energy-water nexus in coupled natural-human systems under climate change with a fully integrated agent-based modeling framework. *Journal of Hydrology*, 634, 131048.
- Lin, C. Y.**, Yang, Y. C. E., & Moazeni, F. (2024). Flood risks of cyber-physical attacks in a smart stormwater system. *Water Resources Research*, 60, e2023WR034827.
- Lin, C. Y.**, Yang, Y. C. E., & Chaudhary, A. K. (2023). Pay-for-practice or pay-for-performance? A coupled agent-based evaluation framework for assessing sediment management incentive policies. *Journal of Hydrology*, 624, 129959.
- Lin, C. Y.**, Yang, Y. C. E., & Wi S. (2022). HydroCNHS: A Python package of hydrological model for coupled natural human systems. *Journal of Water Resources Planning and Management*, 148(12), 6022005.
- Jhong, B. C., **Lin, C. Y.**, Jhong, Y. D., Chang, H. K., Chu, J. L., Fang, H. T. (2022). Assessing effective spatial characteristics of input features by physics-informed machine learning in inundation forecasting during typhoons. *Hydrological Sciences Journal*, 1-19.
- Lin, C. Y.**, Yang, Y. C. E., Malekc, K., & Adam, J. C. (2022). An investigation of coupled natural human systems using a two-way coupled agent-based modeling framework. *Environmental Modelling & Software*, 155, 105451.
- Lin, C. Y.**, & Yang, Y. C. E. (2022). The effects of model complexity on model output uncertainty in co-evolved coupled natural-human systems. *Earth's Future*, 10, e2021EF002403.
- Tung, C. P., Tsao, J. H., Tien, Y. C., **Lin, C. Y.**, & Jhong, B. C. (2019). Development of a novel climate adaptation algorithm for climate risk assessment. *Water*, 11(3), 497.

#### IN REVIEW/REVISION (TOTAL 1)

- Yu, Q., **Lin, C. Y.**, Orduna Alegria, M., Ifft, J., Yu, J., Zipper, S., & Marston, L. (2025). Enhancing the effectiveness of groundwater governance policies: an agent-based analysis of economic and environmental impacts in western Kansas. *Earth's Future*, in review.

#### SOFTWARE/DATASET/PREPRINT (WITHOUT PEER-REVIEWED; TOTAL 4)

- Lin, C. Y.**, Amestoy, T., Smith, M., Hamilton, A., & Reed, P. (2025). Pywr-DRB v2.0.0 [Software]. Zenodo. <https://doi.org/10.5281/zenodo.15659955>
- Lin, C. Y.**, Miller, A., Waqar, M., & Marston, L. (2024). A Database of Groundwater Wells in the United States. HydroShare: <https://doi.org/10.4211/hs.8b02895f02c14dd1a749bcc5584a5c55>
- Lin, C. Y.**, Orduna Alegria, M., Dhakal, S., Zipper, S., & Marston, L. (2024). PyCHAMP: A crop-hydrological-agent modeling platform for groundwater management. Available at SSRN: <http://dx.doi.org/10.2139/ssrn.4814225>
- Lin, C. Y.** (2021). MultiWG: Multi-site stochastic weather generator (MultiWG) (v1.0.0). *Zenodo*.

#### IN PREPARATION (TOTAL 3)

- Lin, C. Y.**, Dhakal, S., Orduna Alegria, M., Zipper, S., & Marston, L. (2025). The role of internal variability in shaping groundwater policy effectiveness. *Environmental Research Letters*
- Lin, C. Y.**, Amestoy, T., Zwart, J., Gorski, G., Reed, R. (2025). Integrating Deep Learning and Thermal Control into Water Management Modeling of the Delaware River Basin to Better Capture Stream Temperature and Salt Front Dynamics. *Journal of Water Resources Planning and Management*
- Dhakal, S., **Lin, C. Y.**, & Marston, L. (2025). Equity and effectiveness of groundwater conservation policies. *Water Resources Research*

#### BOOK, REPORT & THESIS (TOTAL 3)

- Lin, C. Y.** (2023). Co-evolution in complex adaptive water systems from long-term planning to short-term responses. Doctoral dissertation, Lehigh University, USA.

Tung, C. P., Li, M. H., Liu, T. M., Sung, R. T., Hong, N. M., Hsu, S. Y., Lee, T. Y., Tsao, J. H., Li, Y. H., Jhong, B. C., & **Lin, C. Y.** (2020) Climate adaptation advanced training – water resources (translated). Ministry of Education, Taiwan. (Mandarin)

**Lin, C. Y.** (2019). Development of interdisciplinary AgriHydro model and application with climate smart adaptation algorithm - A case study in Taoyuan. Master thesis, National Taiwan University, Taiwan. (Mandarin with English abstract)

## Research Funding & Grants

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<b>Co-PI,</b> 2023-2024	<b><i>“Conducting parcel-scale mapping of water rights to irrigation croplands to advance understanding of agricultural water access security.”</i></b> , PI Landon Marston with Co-PI Chung-Yi Lin and Co-PI Majid Shafiee-Jood, 4-VA Collaborative Research Grant	\$30,000
<b>Co-PI,</b> 2023	<b><i>“Conducting parcel-scale mapping of water rights to irrigation croplands to advance understanding of agricultural water access security.”</i></b> , PI Landon Marston with Co-PI Chung-Yi Lin, Pre-tenure 4-VA Collaborative Research Grant (Spring and Summer)	\$15,000
<b>PI,</b> 2023	<b><i>“Creating a Public US National Groundwater Wells Dataset.”</i></b> , PI Chung-Yi Lin with Co-PI Yunus Naseri, CUAHSI Hydroinformatics Innovation Fellowship	\$4,990
<b>Contributor,</b> 2023-2025	<b><i>“Understanding the drivers of interbasin water transfers to identify and mitigate future conflict.”</i></b> , PI Landon Marston with Co-PI Kathryn Powlen (USGS), United States Geological Survey and National Institutes for Water Resources	\$248,458

## Honors & Awards

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\*LU = Lehigh University; \*NTU = National Taiwan University; \*BSE = Bioenvironmental Systems Engineering

Oct 2023	<b>MultiSector Dynamics Workshop Scholarship</b> , MultiSector Dynamics, US Department of Energy
Mar 2023	<b>CUAHSI Hydroinformatics Innovation Fellowship</b> , CUAHSI
Dec 2022	<b>Graduate Student Senate Travel Grant</b> , LU
Aug 2022	<b>Gibson Teaching Fellowship</b> , LU
Dec 2019	<b>Certificate of Teacher Development Program</b> , LU
Sep 2019	<b>Lehigh University Fellowship</b> , LU
Jul 2018	<b>Summer Institute Programme Scholarship (at IMK-IFU, Garmisch-Partenkirchen, Germany)</b> , Ministry of Science and Technology-German Academic Exchange Service (MOST-DAAD)
Nov 2017	<b>Award for Excellent Oral Presentation</b> , PAWEES International Conference
Sep 2017	<b>Chi-Seng Water Management Research &amp; Development Foundation Scholarship</b> , NTU
Aug 2017	<b>Water Youth Ambassador (to the Netherlands)</b> , Water Resources Agency, Taiwan
Jun 2017	<b>Award of Academic Research Thesis in Bachelor</b> , NTU
Jul 2016	<b>College Student Research Scholarship</b> , Ministry of Science and Technology, Taiwan
Jul 2016	<b>First prize in Taiwan Water Youth Camp &amp; Wetskills (an Netherlands organization)</b> , Water Resources Agency, Taiwan
Apr 2016	<b>Academic Excellence Award-BSE</b> , NTU
Jan 2016	<b>Exchange program to Purdue University</b> , NTU
Dec 2015	<b>Agricultural Engineering Research Center Scholarship</b> , Agricultural Engineering Research Center, NTU
Apr 2015	<b>Academic Excellence Award-BSE</b> , NTU
Oct 2014	<b>Academic Excellence Award-BSE</b> , NTU
Apr 2014	<b>Academic Excellence Award-BSE</b> , NTU

## Professional Presentations & Conferences

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### INVITED TALKS

- Jul 2025. Virtual Summit: Incorporating Data Science and Open Science in Aquatic Research.  
*"Pywr-DRB: Advancing water availability assessment through open source modeling in the Delaware River Basin"*
- Oct 2024. Cornell University, EWRS Seminar, Ithaca, USA.  
*"Micro Decisions, Macro Impact: How do Human Actions Shape Water Systems?"*
- Feb 2023. Los Alamos National Lab., Webinar, USA.  
*"Co-Evolution in Complex Adaptive Water Systems: Application of Agent-based Modeling."*
- Jan 2023. USGS Factors Team meeting, Webinar, USA.  
*"Analyzing the Role of Socioeconomic Factors in Sediment Management through Agent-Based Modeling - Susquehanna River Basin, US."*
- Nov 2022. 2022 CUAHSI Making Waves in Water Science: Open Source Tools for Water Science Webinar, USA.  
*"An open-source software, HydroCNHS."*
- Jul 2019. Institute for Global Environmental Strategies (IGES), Japan.  
*"Exploring challenges & opportunities of nitrogen management in Japan & Taiwan."*
- Aug 2018. Institute of Meteorology and Climate Research Atmospheric Environmental Research (IMK-IFU) in Garmisch-Partenkirchen, Germany.  
*"Stochastic weather generator and climate risk assessment in the water-food nexus."*
- Sep 2017. National Science and Technology Center for Disaster Reduction (NCDR), Taiwan.  
*"The water-food nexus under climate change for Taoyuan, Taiwan."*

### CONFERENCES

- Lin, C. Y.**, Chen, B.-Y., Dhakal, S., and Marston, L. (2024). Assessing the Transferability and Effectiveness of Groundwater Conservation Policy Under Environmental Heterogeneity. Abstract [H53P-1319] presented at 2024 Fall Meeting, AGU, Washington D.C., 9-13 Dec.
- Lin, C. Y.**, Niazi, H., Housego, R., Dhakal, S., Zuidema, S., and Ferencz, S. (2024). Groundwater and Global Change: Integrated Multisector Dynamics Within Human-Earth Systems. Abstract [GC31U-0090] presented at 2024 Fall Meeting, AGU, Washington D.C., 9-13 Dec.
- Nguyen, M., Orduna Alegria, M. E., Zipper, S. C., Ndlovu, W., **Lin, C. Y.**, and Marston, L. (2024). Enhancing Agro-Hydrological Simulations: Coupling PyCHAMP and AquaCrop-OS for Enhanced Yield and Water Use Simulations. Abstract [H13I-1117] presented at 2024 Fall Meeting, AGU, Washington D.C., 9-13 Dec.
- Dhakal, S., **Lin, C. Y.**, and Marston, L. (2024). Equity and Effectiveness of Groundwater Conservation Policies. Abstract [H53P-1324] presented at 2024 Fall Meeting, AGU, Washington D.C., 9-13 Dec.
- Orduna Alegria, M. E., Zipper, S., Shin, H. C., Deines, J. M., Hendricks, N., Bohling, G., Allen, J. J., Golden, B., Griggs, B. W., Lauer, S., **Lin, C. Y.**, Marston, L., Sanderson, M. R., Smith, S., Whittemore, D. O., Wilson, B. B., Yu, D. J., Yu, Q. C., and Butler, J. J. (2024). Socio-Hydrological Tenets for Effective Groundwater Governance. WaterSciCon24, Saint Paul, MN, 24-27 June.
- Lin, C. Y.**, Orduna Alegria, M. E., Dhakal, S., Zipper, S., and Marston, L. (2024). PyCHAMP: A Crop-Hydrological-Agent Modeling Platform for Groundwater Management. 12th International Congress on Environmental Modelling and Software, East Lansing, MI, 23-27 June.
- Lin, C. Y.**, Marston, L., Zipper, S., and Orduna Alegria, M. E.. (2024). CHAMP: A Modeling Platform for Sustainable Groundwater Management Through Human-Environmental Interactions. Oral presented at 2024 EWRI Congress, Milwaukee, WI, 19-22 May.
- Lin, C. Y.**, Miller, A., Waqar, M., and Marston, L.. (2024). USGWD: A database of groundwater wells in the United States, Groundwater & Society Workshop, University Park, PA, 8-10 May.
- Marston, L., Amaya, M., and **Lin, C. Y.** (2024). From Fields to Faucets: Modelling the Dynamics of Rural-Urban Water Transfers, EGU General Assembly 2024, Vienna, Austria, 14–19 Apr 2024, EGU24-2718, <https://doi.org/10.5194/egusphere-egu24-2718>.

- Orduna Alegria, M. E., Zipper, S., Butler Jr, J. J., Golden, B., Wilson, B. B., Griggs, B. W., **Lin, C. Y.**, Yu, D. J., Whittemore, D. O., Bohling, G. C., Shin, H. C., Deines, J. M., Allen, J. J., Marston, L. T., Sanderson, M. R., Hendricks, N. P., Yu, Q., Lauer, S., and Smith, S. M. (2024). From Local Success to Global Solutions: Tenets for Effective Groundwater Governance, EGU General Assembly 2024, Vienna, Austria, 14–19 Apr 2024, EGU24-13368, <https://doi.org/10.5194/egusphere-egu24-13368>.
- Orduna Alegria, **Lin, C. Y.**, Zipper, S., and Marston, L., (2023). Bridging the Gap between Climate Change, Agriculture, and Policy with CHAMP: An Integrated Modeling Framework. AGU, San Francisco, CA, 11-15 Dec.
- Lin, C. Y.**, Orduna Alegria, M., Zipper, S., Wilson, B., and Marston, L. (2023). Exploring the Interplay of Heterogeneity in Coevolved Human-Water Systems for Effective Community-Driven Groundwater Management. Abstract [H24B-05] presented at 2023 Fall Meeting, AGU, San Francisco, CA, 11-15 Dec.
- Lin, C. Y.**, Orduna Alegria, M., Zipper, S., and Marston, L. (2023). Exploring the Interplay of Heterogeneity in Coevolved Human-Water Systems for Effective Community-Driven Groundwater Management. 2023 MultiSector Dynamics (MSD) Workshop, Davis, CA, 3-5 Oct.
- Lin, C. Y.**, Yang, Y. C. E. (2022). Analyzing the role of social-economic factors in water quality management through agent-based modeling-Susquehanna River Basin, US. Abstract [H32L-05] presented at 2022 Fall Meeting, AGU, Chicago, IL, 12-16 Dec.
- Lin, C. Y.**, Yang, Y. C. E. (2022). Risk assessment of compound disturbances in coupled natural human systems. Oral [1107573] presented at 2022 EWRI Congress, Atlanta, GA, 5-8 Jun.
- Lin, C. Y.**, Yang, Y. C. E. (2021). Uncertainty decomposition of coupled natural human systems with differing model parameter complexity. Abstract [H25U-1267] presented at 2021 Fall Meeting, AGU, New Orleans, LA, 13-17 Dec.
- Tung, C. P., Tsao, J. H., Jhong, B. C., Li, M. H., Perng, P. W., Huang, J., Tien, Y. C., & **Lin, C. Y.** (2019) Enable climate intelligent assistant for resilient cities. ECCA International Conference Abstracts, Lisbon, Portugal.
- Takeda, T. & **Lin, C. Y.** (2019) Japan's challenges and opportunities regarding nitrogen management. Water and Environment Technology Conference 2019, Suita, Osaka, Japan.
- Lin, C. Y.**, Wang, Z. L., Huang, J., Jhong, B. C., & Tung, C. P. (2018). Development of a cross-scale and cross-sector adaptation assessment model integrating agriculture and water resources fields: A case study of regional to local scale. Abstract [H21Q-1953] presented at 2018 Fall Meeting, AGU, Washington, D.C., 10-14 Dec.
- Wang, Z. L., Tung, C. P., **Lin, C. Y.**, Jhong, B. C., & Huang, J. (2018). Investigating the feasibility of water market in water reallocation by virtual gaming simulation during drought periods: A case study of the Taoyuan area, Taiwan. Abstract [H21Q-1938] presented at 2018 Fall Meeting, AGU, Washington, D.C., 10-14 Dec.
- Jhong, B. C., Tung, C. P., Tsao, J. H., **Lin, C. Y.**, & Li, M. H. (2018). Interdisciplinary assessment of climate risk for water resources and agriculture and flood disaster. PAWEES & INWEPF International Conference 2018 Abstracts, Nara, Japan.
- Lin, C. Y.**, Jhong, B. C., Chen, P. Y., & Tung, C. P. (2017). Development of surrogate model for the hydrological module of SWAT. PAWEES International Conference 2017 Abstracts, Taichung, Taiwan. (Award for Excellent Oral Presentation)
- Lin, C. Y.**, Li, Y. H., Li, M. H., & Tung, C. P. (2015). Analysis of the water-food nexus under climate change: A case study of thousand-ponds-city in Taiwan. ECCA International Conference Abstracts, Glasgow, Scotland.

## CONVENER AND OTHERS

- May 2024. 2024 EWRI Congress, Milwaukee, USA.  
Moderate a session of “*Systems Thinking and Decentralized Modeling for Complex Adaptive Systems.*”
- Aug 2022. 2022 AGU-H3S Navigating Academic Waters: Succeeding as a Postdoc webinar, USA.  
Organize and moderate the virtual panel discussion on “*Navigating Academic Waters: Succeeding as a Postdoc.*”

## Teaching Experience

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\*VT = Virginia Polytechnic Institute and State University; \*LU = Lehigh University \*CEE = Civil & Environmental Engineering; \*BSE = Bioenvironmental Systems Engineering; \*CVU = CUAHSI Virtual University

F'23	<b>Co-instructor</b> , Sustainable Human-Water Systems	VT/CVU
Sp'23	<b>Instructor</b> , CEE 4994 Undergraduate Research: Data Analysis of Human-water System	VT
Sp'23	<b>Guest lecture (with Prof. Marston)</b> , CEE 4344 Water Resources Planning	VT
F'22	<b>Co-instructor/developer (with Prof. Yang)</b> , CEE 497 Applications of Catastrophe Modeling	LU
F'22	<b>Teaching Assistant</b> , CEE 122 Fluid Mechanics	LU
Sp'22	<b>Teaching Assistant</b> , CEE 222 Water Resources Engineering	LU
Sp'18	<b>Teaching Assistant</b> , BSE 5071 Climate Change and Environmental Ecology	NTU
F'17	<b>Teaching Assistant</b> , BSE 5091 Environmental Systems Analysis	NTU
Sp'17	<b>Teaching Assistant</b> , BSE 5071 Climate Change and Environmental Ecology	NTU

## Mentoring

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\*VT = Virginia Polytechnic Institute and State University; \*LU = Lehigh University

2024	<b>Qiuyun Yu</b> , Ph.D., VT
2023	<b>Sameer Dhakal</b> , Ph.D., VT (serving as a member of Sameer's dissertation committee)
2023	<b>Megan Schantz</b> , M.S. & B.S., VT
2023	<b>Musab Waqar</b> , M.S., VT
2020	<b>Tanumoy Banerjee</b> , Ph.D., LU (through <i>Mentor Collective Program at Lehigh University</i> )
2020	<b>Jasreen Kaur</b> , Ph.D., LU (through <i>Mentor Collective Program at Lehigh University</i> )

## Service

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\*AGU = American Geophysical Union; \*LU = Lehigh University; \*NTU = National Taiwan University

### PROFESSIONAL SERVICE

2022-present	<b>AGU, Water and Society Technical Committee</b> , Social media chair
2021-present	<b>ASCE, EWRI, Environmental and Water Resources System (EWRS)</b> , Committee member
2024-present	<b>ASCE, EWRI, Water-Energy Task Committee (ECO-WES)</b> , Member
2024-2025	<b>MultiSector Dynamics Community of Practice Facilitation Team</b> , Member
2024-2025	<b>American Society for Engineering Education</b> , Member
2023	<b>AGU, Hydrology Section Student Subcommittee (H3S)</b> , Secretary
2022	<b>AGU, Hydrology Section Student Subcommittee (H3S)</b> , Prof. Dev. Subcommittee Co-chair

### UNIVERSITY SERVICE

2021-2022	<b>Graduate Students Recruitment Program</b> , CEE Department Representatives, LU
2021	<b>Graduate Senate Meeting</b> , CEE Department Representatives, LU
2021-2022	<b>Lehigh Graduate Open House</b> , CEE Department Representatives, LU
2021-2022	<b>Lehigh Mentor Collective</b> , CEE Department Representatives, LU
2014-2015	<b>Climate Action Club</b> , Charter President, NTU

### AD HOC REVIEWER – JOURNALS

- Water Resources Research – American Geophysical Union
- Journal of Hydrology – ELSEVIER
- Science of the Total Environment – ELSEVIER
- Environmental Modeling & Software – ScienceDirect
- Journal of Water Resources Planning and Management – ASCE
- Ecology & Society – Resilience Alliance
- Environmental Science and Policy – ScienceDirect

- PLOS Water – PLOS
- Weather and Climate Extremes – ScienceDirect

#### GRANT REVIEW PANELS

- Served on US National Science Foundation OISE panel