# 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<br>Aug 2019 - Jan 2023                         |
| National Taiwan University • M.S. IN BIOENVIRONMENTAL SYSTEMS ENGINEERING  | Taipei, Taiwan<br>Sep 2017 - Feb 2019                             |
| National Taiwan University B.S. IN BIOENVIRONMENTAL SYSTEMS ENGINEERING  | Taipei, Taiwan<br>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  |
| <ul> <li>Postdoctoral Associate</li> <li>Reed's Research Group, Cornell University, Ithaca, NY, US         Supervisor: Dr. Patrick Reed     </li> </ul>  | Aug 2024 - Aug 2025   |
| <ul> <li>Marston's Research Group, Virginia Polytechnic Institute and State University, Blacks-<br/>Burg, VA, US<br/>Supervisor: Dr. Landon Marston</li> </ul>   | Feb 2023 - Aug 2024   |
| Research Assistant   |   |
| • Complex Adaptive Water Systems Lab., Lehigh University, Bethlehem, PA, US Advisor: Dr. Ethan Yang  | Sep 2020 - May 2021   |
| <ul> <li>Visiting Scholar/Intern</li> <li>Institute for Global Environmental Strategies (IGES), Hayama, Japan</li> <li>Institute of Meteorology and Climate Research Atmospheric Environmental Research (IMK-IFU), Garmisch-Partenkirchen, Germany</li> <li>Microsoft Student Partner, Taipei, Taiwan</li> </ul> | Jun 2019 - Jul 2019<br>Jul 2018 - Aug 2018<br>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  | Aug 2024 - Dec 2024   |
| URSSI SUMMER SCHOOL 2024, 24-26 JUNE, WASHINGTON DC Learn about the best practices in open science   | June 2024   |
|  |   |

# PUBLISHED (TOTAL 12)

Publications \_

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.

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- **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 ground-water 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 \_\_\_\_\_

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

# Honors & Awards \_\_\_\_\_

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

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

#### Professional Presentations & Conferences

#### 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 Alegria1, 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 [H210-1953] 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\_

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

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

# Mentoring \_\_\_\_\_

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

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

#### Service\_\_\_\_\_

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

#### PROFESSIONAL SERVICE

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

#### UNIVERSITY SERVICE

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