

# CHRISTINE J. KIRCHHOFF

## PROFESSIONAL PREPARATION

University of Texas, Austin	Civil Engineering	B.S., 1994-1998
University of Texas, Austin	Env. & Water Resources Engineering	M.S., 2001
University of Michigan, Ann Arbor	Resource Policy & Behavior	Ph.D., 2004-2010
University of Michigan, Ann Arbor	Science, Technology & Public Policy	Grad. Cert., 2010
University of Michigan, Ann Arbor	Graduate Teaching Fellow	2010
University of Colorado, Boulder	Postdoc, Sci. & Tech. Policy Res.	2010-2011
University of Michigan, Ann Arbor	Postdoc, Nat. Res. & Environment	2011-2013

## APPOINTMENTS

2013-present	Assistant Professor, Department of Civil and Environmental Engineering, University of Connecticut
2014-present	Affiliated Faculty, Connecticut Institute for Resilience and Climate Adaptation and Department of Natural Resources and Environment, University of Connecticut
2011	Research Consultant, The National Academies, Board on Atmospheric Sciences & Climate, Committee on a National Strategy for Advancing Climate Modeling

## RELEVANT PROFESSIONAL EXPERIENCE

1998-2004	Project Manager / Engineer. Turner Collie and Braden, Inc. (now AECOM), Austin, Texas, 1998-2004
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## PROFESSIONAL REGISTRATION

Registered Professional Engineer, Texas. No. 91864

## PUBLICATIONS

*Underlined names are major advisees, postdocs (\*) or undergraduates (\*\*) involved in research. Underline dash-dot are associate advisees.*

### In Preparation for Peer Review

- k. Hamlet AF, Snover A, **Kirchhoff CJ**. Sociopolitical Factors and Engagement Strategies Informing Climate Change Adaptive Capacity: Learning from Early Pacific Northwest Case Studies in the 1990s and 2000s. *Environmental Science & Policy*
- j. **Kirchhoff CJ**, Treuer G\*, Mcgrath F, Lemos MC, Denny R\*\*. Toxic Waters: Managing harmful algal blooms in US drinking water supplies. *Proceedings of the National Academy of Sciences*
- i. **Kirchhoff CJ**, Bednarek A, Colvin R, Cvitanovic C, Francis T, Posner S, Wyborn C. Boundary Spanning Reconsidered. *Palgrave Communications*.
- h. Mullin C, **Kirchhoff CJ**, Valahos P. Reservoir sensitivity to climate change: Exploring the importance of changing air temperature and wind speed on surface, average, and bottom water quality parameters in three Connecticut lakes. *Lake and Reservoir Management*.
- g. Basile S, Steiner A, **Kirchhoff CJ**, Lemos MC, Scavia D. Conceptualizing uncertainty in harmful algal bloom modeling for ecosystem service planning in Western Lake Erie
- f. Mcgrath F, Treuer G\*, **Kirchhoff CJ**, Lemos MC. What do water managers think are threats to their water systems? *Water*

- e. Treuer G\*, **Kirchhoff CJ**, Mullin C. Assessing Resilience Capacity in Water Systems: A four type framework for understanding current and future resilience using the case of Connecticut drinking water systems. *Water Resources Research*
- d. Utemuratov B, **Kirchhoff CJ**. Climate information and adaptation action in the water sector. *Climate Risk Management*.

### In Review

- c. Mullin CA, **Kirchhoff CJ**, Wang G, Vlahos P. Future projections of water temperature and thermal stability in Connecticut reservoirs and possible implications for cyanobacteria. *Water Resources Research* (Submitted January 21, 2020) 2020WR027185
- b. Wang G, **Kirchhoff CJ**, Seth A, Abatzoglou JT, Livneh B, Pierce DW, Fomenko I, Ding T. Projected Changes of Precipitation Characteristics Depend on Downscaling Method and Training Data: the U.S. Northeast as an Example. *Journal of Hydrometeorology* (submitted November 18, 2019)
- a. Treuer G\*, **Kirchhoff CJ**, Mcgrath F, Lemos MC. The emerging threat to drinking water from harmful algal blooms: Does experience help? *Nature Sustainability* (submitted Aug. 2019)

### Published Peer-Reviewed Articles

23. Arnott J, **Kirchhoff CJ**, Meyer RM, Meadow AM, Bednarek AT. Sponsoring actionable science: What public science funders can do to advance sustainability and the social contract for science. *Current Opinion in Environmental Sustainability* 43: 38-44. <https://doi.org/10.1016/j.cosust.2020.01.006>
22. Kalcic M, Muenich R, Basile S, Steiner A, **Kirchhoff CJ**, Scavia D. 2019. Climate change and nutrient loading: warming can counteract a wetter future. *Environmental Science & Technology*. [doi.org/10.1021/acs.est.9b01274](https://doi.org/10.1021/acs.est.9b01274)
21. **Kirchhoff CJ**, Barlow M, Barsugli J, Galford GL, Karmalkar A, Seth A, Stephenson S, Wang G, Frank A\*\*. 2019. Local assessments for climate adaptation. *Bulletin of the American Meteorological Society* November: 2147-2152. <https://doi.org/10.1175/BAMS-D-18-0138.1>
20. Lemos MC, Wolske K, Vang Rasmussen L, Arnott J, Kalcic M, **Kirchhoff CJ**. 2019. The closer, the better? Untangling Scientist–Practitioner Engagement, Interaction, and Knowledge Use. *Weather, Climate, and Society* 11(3), 535-548.
19. Bair LS, Yackulic CB, Schmidt JC, Perry DM, **Kirchhoff CJ** Chief K, Colombi B. 2019. Incorporating social-ecological considerations into basin-wide responses to climate change in the Colorado River Basin. *Current Opinion in Environmental Sustainability*, 37, 14-19.
18. **Kirchhoff CJ**, Watson P. 2019. Are wastewater systems adapting to climate change? *Journal of the American Water Resources Association*, 55(4), 869-880. <https://doi.org/10.1111/1752-1688.12748>
17. **Kirchhoff CJ**, Flagg J\*, Zhuang Y, Utemuratov B. 2019. Understanding and Improving Enforcement and Compliance with Drinking Water Standards. *Water Resources Management*, 33(5), 1647-1663.
16. Mullin C, **Kirchhoff CJ**. 2019. Marshalling Adaptive Capacities within an Adaptive Management Framework to Enhance the Resiliency of Wastewater Systems. *Journal of the American Water Resources Association*, 55(4), 906-919. <https://doi.org/10.1111/1752-1688.12709>
15. Flagg JA\*, **Kirchhoff CJ**. 2018. Context matters: Context-related drivers of and barriers to climate information use. *Climate Risk Management*, 20, 1–10. <https://doi.org/https://doi.org/10.1016/j.crm.2018.01.003>

14. Vang Rasmussen L, **Kirchhoff CJ**, Lemos MC. 2017. Adaptation by Stealth: understanding climate information use across scales and decision spaces in water management in the United States, *Climatic Change*, 140(3), 451-465. doi:10.1007/s10584-016-1857-0.
13. **Kirchhoff CJ**, Lara-Valencia F, Brugger J, Mussetta P, Pineda-Pablos N. 2016. Towards joint consideration of adaptive capacity and water security: Lessons from the arid Americas, *Current Opinion in Environmental Sustainability*, 21, 22-28.
12. Kalcic M, **Kirchhoff CJ**, Bosch N, Muenich R, Murray M, **Gardner J\*\***, Scavia D. 2016. Engaging Stakeholders to Define Feasible and Desirable Agricultural Conservation in Western Lake Erie Watersheds. *Environmental Science & Technology*, 50(15), 8135-8145.
11. **Kirchhoff CJ**, Dilling L. 2016. The role of U.S. states in facilitating effective water governance under stress and change, *Water Resources Research*, 52(4), 2951-2964. doi:10.1002/2015WR018431. Highlighted in EOS Research Spotlight, <https://eos.org/research-spotlights/u-s-states-prepared-manage-water-changing-climate>
10. **Kirchhoff CJ**, Lemos MC, Kalafatis S. 2015. Narrowing the gap between climate science and adaptation action: the role of Boundary Chains. *Climate Risk Management* 9, 1-5. doi:10.1016/j.crm.2015.06.002
9. **Kirchhoff CJ**, Lemos MC, Kalafatis S. 2015. Creating synergy with boundary chains: Can they improve usability of climate information? *Climate Risk Management* 9, 77-85. doi:10.1016/j.crm.2015.05.002
8. **Kirchhoff CJ**, Esselman E, and D Brown. 2015. Boundary Organizations to Boundary Chains: Prospects for Advancing Climate Science Application. *Climate Risk Management* 9, 20-29. doi:10.1016/j.crm.2015.04.001
7. Lemos MC, **Kirchhoff CJ**, Kalafatis SE, Scavia D, Rood RB. 2014. Moving climate information off the shelf: Boundary Chains and the role of RISAs as adaptive organizations. *Weather Climate and Society* 6, 273-285.
6. Lemos MC, Lo YJ, **Kirchhoff CJ**, Haigh T. 2014. Crop advisors as climate information brokers: Building the capacity of US farmers to adapt to climate change. *Climate Risk Management* 4-5, 32-42. <http://dx.doi.org/10.1016/j.crm.2014.08.001>.
5. **Kirchhoff CJ**, Lemos MC, Dessai S. 2013. Actionable knowledge for environmental decision making: Broadening the usability of climate science. *Annu. Rev. Environ. Resour.* 38, 3.1-3.22. DOI: 10.1146/annurev-environ-022112-112828.
4. **Kirchhoff CJ**. 2013. Understanding and enhancing climate information use in water management. *Climatic Change* 119, 495-509.
3. **Kirchhoff CJ**, Lemos MC, Engle N. 2012. What influences climate information use in water management? The role of boundary organizations and governance regimes in Brazil and the U.S. *Environmental Science and Policy* 26, 6-18.
2. Lemos MC, **Kirchhoff CJ**, Ramprasad V. 2012. Narrowing the usability gap. *Nature Climate Change* 2, 789-794.
1. McNeeley SM, Tessoroff SA, Lazurus H, Heikkila T, Ferguson IM, Arrigo JS, Attari SZ, Cianfrani CM, Dilling L, Gurdak JJ, Kampf SK, Kauneckis D, **Kirchhoff CJ**, Lee J, Lintner BR, Mahoney KM, Opitz-Stapleton S, Ray P, South AB, Stubblefield AP, Brugger J. 2012. Catalyzing Frontiers in Water-Climate-Society Research: A View from Early Career Scientists and Junior Faculty. *Bulletin of the American Meteorological Society* 93(4), 477-484.

### Book Chapters

- Lemos MC, **Kirchhoff CJ**. 2015. "Climate information and water management: building adaptive capacity or business as usual?" in Ken Conca and Erika Weintal (Eds) *The Oxford Handbook of Water Politics and Policy*, Oxford University Press.

Lemos MC, **Kirchhoff CJ**. 2015. "Boundary Organizations." In Jean-Frédéric Morin and Amandine Orsini (Eds) *Essential Concepts of Global Environmental Governance*, Routledge.

## Reports

Seth A, Wang G, **Kirchhoff CJ**, Stephenson S, Lombardo K, Ahnya R, Wu J. 2019. Connecticut Physical Climate Science Assessment Report (PCSAR). Observed trends and projections of temperature and precipitation.

**Kirchhoff CJ**, Burnicki A, Cifuentes A. 2019. Flood Recurrence Analysis for Milford, CT.

**Kirchhoff CJ**, Mullin CA, Utemuratov B, Tashev A. 2019. Wastewater System Resilience: Learning from Connecticut Wastewater Systems.

**Kirchhoff CJ**, Arnott JC, Katzenberger JW, McNie EC. 2019. Special Report: Science policy strategies & tactics to narrow the knowledge-action gap for infrastructure and other 21st century societal challenges Prepared as a Special Report for the National Science Foundation's Science of Science and Innovation Policy (SciSIP) Program through support of NSF Grant #1735848

## CURRENT COURSES TAUGHT

CE 2251	Probability and Statistics for Engineers (U)
ENVE 1000	Environmental Sustainability (U)
ENVE 4850/5850	Sustainable Resilient Water Governance
ENVE 5090	Water Resources Policy & Management (G/U)
ENVE 5020	Qualitative Methods: Interviewing (G)
ENVE 5020	Survey Design and Analysis (G)

## GRANTS

### Pending or In Preparation

- d. NSF DRMS: Financial health, risk, water management, Co-PI with PI Sara Hughes (University of Michigan), 6/1/2020 – 5/31/2023, \$477,631. Submitted January 16, 2020.
- c. NSF CNH2-L: Collaborative Research: Integrating farm, city and nitrogen to assess and manage toxic algal blooms as a socio-environmental system, **PI** with co-PIs T. Davis (Bowling Green State U.), R. Muenich (ASU), S. Newell (Wright State), R. Wilson (OSU), 10/1/2019-09/31/2022, \$1,599,262. Submitted November 15, 2019.
- b. NSF CAREER: Understanding the Role People, Policy and Knowledge Play in Community and Infrastructure Resilience, **PI**, 1/15/2020 - 1/14/2025, \$500,488. Submitted July 17, 2019
- a. NSF CoPe EAGER: Citizen Competence and Disaster Preparedness in Coastal Communities, PI T. Jamieson (University of Nebraska), with co-PIs R. Morss (NCAR) and N. Weller (UC Riverside). Submitted June 28, 2019.

### Awarded

*Total funding received since joining UConn: \$8.35 million (\$1.45 million to PI)*

*Federal funding: \$5.2 million (~\$1 million to PI)*

*State funding: \$3.1 million (~\$434k to PI)*

15. AGU, *Illustrating innovations at the boundary of Earth science and society*, **Co-PI**, with PI Arnott (Aspen Global Change Institute) and Vano (University of Nevada), \$10,000, 6/1/2019 – 5/31/2020.

14. NSF SciSIP, *Science Policy Research Report: Institutional Innovation to Close the Knowledge-Action Gap for Infrastructure*, **Co-PI**, with PI Katzenberger (Aspen Global Change Institute), \$34,019, 08/01/2017 – 07/31/2018.
13. CT Department of Public Health, *Drinking Water Vulnerability and Resilience*, **Co-PI**, with PI O'Donnell (UConn), \$600,000 12/1/2016-09/30/2017.
12. USDA/Agriculture and Food Research Initiative (AFRI): Water for Agriculture, *Assessing barriers to use of reclaimed wastewater for food production in controlled environment agriculture*, **Co-PI**, with PI Vadas (UConn), \$499,971, 01/01/2017 – 12/31/2020.
11. NSF Coastal SEES, *Coastal SEES: Enhancing sustainability in coastal communities threatened by harmful algal blooms by advancing and integrating environmental and socio-economic modeling*, **Co-PI**, with PI Steiner (UMichigan), UConn budget \$282,652, 9/1/2016 – 8/31/2019.
10. NOAA/Climate and Societal Interactions (CSI) Program/Sectoral Applications Research Program (SARP), *From precipitation thresholds identification to planning: Helping communities plan and adapt to future extreme events*, **PI**, \$299,322, 7/1/2016 – 6/30/2018.
9. USEPA, *Valuation of Water Quality Change in Environment and Economy Context: Ecosystem Services across Gradients of Degradation and Local Economic Interest*, **Co-PI**, with PI Steve Swallow (UConn), \$799,994
8. US DOE, *GAANN: Environmental engineering at the forefront of water policy and education* **Co-PI**, with PI Vadas (UConn), \$738,195
7. CIRCA Municipal Resilience Grant Program, *Climate Adaptation and Resiliency Planning for Protection of Public Drinking Water*, **PI**, \$26,027, 8/1/2016 – 8/31/2017.
6. NSF, CNH-RCN: *Amazon Dams Network: Advancing Integrative Research and Adaptive Management of Social-Ecological Systems Transformed by Hydroelectric Dams* with colleagues at the University of Florida, **Senior Personnel**, with PI Loiselle (UFlorida), \$499,818, 7/1/2016-6/30/2021
5. Connecticut Sea Grant, *Resilient Coastal Communities under Wind and Flood Hazards: Understanding Trade-offs in Residential Building Designs* **Co-PI**, with W. Zhang (PI), award # R/CH-1, \$199,557 (including \$69,557 matching funds), 2/1/2016-1/31/2018.
4. Connecticut Department of Energy and Environmental Protection (CTDEEP), *Municipal Resilience Planning Assistance Project Task 7* **PI**, Vulnerability Assessment, \$111,661, 10/31/2015-9/30/2017.
3. Eversource Energy, *Eversource Energy Center - Vegetation Management* **Co-PI**, with J. Volin (PI), \$1,213,521, 6/1/2016-12/31/2017.
2. NOAA/Climate and Societal Interactions (CSI) Program, Coastal and Ocean Climate Applications (COCA), *Enhancing manager and stakeholder awareness of and responses to extreme precipitation effects on Lake Erie* **PI**, with D. Scavia (UM), A. Steiner (UM), Nathan Bosch (Grace College), M. Murray (National Wildlife Federation), and F. Lopez (Ohio Department of Natural Resources, Division of Wildlife), \$275,617, 2013-16.
1. USGS CT Institute of Water Resources. *Evaluating and enhancing communities' willingness to adopt N-Sink as a community based pollution mitigation decision tool* **PI**, with Barrett (Co-PI UConn), \$46,607, 2014 – 2015.

## HONORS AND AWARDS

School of Engineering, Castleman Professor in Engineering Innovation, 2019-2021

Family Support Award, University of Connecticut Graduate School, 2017

Service Learning Faculty Fellow, 2015 – 2016

Outstanding Reviewer, Climate Risk Management – 2015

Best Dissertation, University Council on Water Resources, 2011  
Co-professor of the Month, Network of Conservation Educators and Practitioners, 2011  
Ayers-Brinsler Award, University of Michigan, School of Natural Resources and Environment, 2008  
awarded annually to one PhD student who has shown particular excellence in the study of natural  
resource policy and management  
Dan David Prize, 2008  
Rackham Fellow, University of Michigan, 2004 - 2010

## **SELECTED INVITED PRESENTATIONS AND WORKSHOPS**

Invited panel speaker for NSF Advisory Committee for Environmental Research and Education  
Coproduct Mini-Symposium, November 4-5, 2019.  
Invited speaker for the Consortium for Climate Risk in the Urban Northeast Seminar Series, *Human  
Dimensions of Water Infrastructure Resilience*, October 3, 2018.  
Invited speaker for NEIWPCA/DEEP Workshop: Oct. 11, 2017, May 1, 2019, June 11, 2019;  
Extreme Weather in the Forecast: Is your Facility Prepared?  
Invited panel speaker for the 2018 Creating a Resilient Connecticut: A CIRCA Forum on Science,  
Planning, Policy & Law, May 11, 2018.  
Invited speaker for ASRWWA 2017 CT Fall Conference & Trade Show, October 25, 2017;  
Wastewater & Drinking Water System Climate Resilience, Adaptation and Storm  
Preparedness  
Invited speaker *Drinking Water Vulnerability Assessment and Resilience Plan for Connecticut*. for the 2018  
Connecticut Water Works Association/Connecticut American Water Works Association  
Annual Conference. Plantsville, CT, Oct. 18, 2018.  
Distinguished Scholar Lecture, *Climate-Resilient Water Governance & Management: Progress and Challenges*,  
University of Florida Water Institute, March 17, 2017  
Invited speaker for the 2016 Connecticut Water Works Association/Connecticut American Water  
Works Association Annual Conference. Plantsville, CT, Oct. 18.  
Invited speaker and participant for the 2016 *Expanding the Science-Policy Interface to Confront Global  
Change* workshop. Aspen Global Change Institute. Aspen, CO, October 9-14.  
Invited participant for the 2016 *Co-Producing Actionable Science for Water Utilities: Case Studies and Next  
Steps* workshop. Water Utilities Climate Alliance and National Center for Atmospheric  
Research. Boulder, CO, May 2-3.  
Invited participant for the 2016 NSF funded Infrastructure Climate Network (ICNet) workshop.  
University of New Hampshire. New Castle, NH, April 11-12.  
Invited panel speaker for the 2016 Connecticut Annual Campus Sustainability Conference.  
University of Connecticut Law School, Hartford, CT, April 7.  
Plenary Speaker and invited participant for the 2015 multilateral workshop *Improving science and security  
collaboration: Climate change and environmental security in High Asia*. Daniel K. Inouye Asia-Pacific  
Center for Security Studies and the Lanzhou Branch of the Chinese Academy of Sciences.  
Beijing, China, November 3-6.  
Invited speaker and participant for the 2015 Impact Relevance and Usability of High Resolution  
Climate Modeling and Datasets. Aspen Global Change Institute. Aspen, CO, August 2-7.  
Invited participant for the 2014 Framework for Evaluating the US National Assessment. United  
States Global Change Research Program. Washington DC, June 19-20.  
Invited speaker for Continuing Education Lecture Series. 2014. Connecticut Chapter of the  
American Institute of Architects. New Haven, CT, April 22

Invited plenary speaker for panel on Climate Smart Communities. 2013 Water Management Association of Ohio Annual Conference. Columbus, OH, November 13-14.

## **SELECTED CONFERENCE PRESENTATIONS (W/IN PAST 5 YRS)**

- Understanding and Improving Resilience of Built Infrastructure: A Focus on Wastewater* at the 2<sup>nd</sup> Annual New England Council of Public Utility Commissioners Symposium, Hartford, CT, June 2-4, 2019.
- Four Types of Resilience Capacity: Assessing Climate Resilience in Connecticut Drinking Water Systems* at the National Adaptation Forum, Madison, Wisconsin, April 23-25, 2019
- Refining the drinking water resilience gap*, presented at AGU Fall Meeting, December 10-14, 2018, Washington, D.C.
- Organized Session entitled *Adaptation and sustainable management of Water Systems in the Northeastern USA: Approaches and lessons learned* at the AWRA Specialty Conference, Climate change solutions: Collaborative Science, Policy and Planning for Sustainable Water Management, June 25-28, 2017.
- Organized Session entitled *Improving wastewater system resilience and storm preparedness in the Northeastern USA* at the National Adaptation Forum, May 9-11, 2017.
- Narrowing the knowledge-action gap for infrastructure: The role for science policy*. 2018. Society for Social Studies of Science Annual Conference. Sydney International Convention Centre, August 29 – September 1, 2018.
- Science Policy, Climate Science and Doing Subnational Climate Assessments*. 2018. Society for Social Studies of Science Annual Conference. Sydney International Convention Centre, August 29 – September 1, 2018.
- Understanding synergies (or barriers) for adaptation and resilience across scales from state to region to local*. 2017. AWRA Specialty Conference, Climate change solutions: Collaborative Science, Policy and Planning for Sustainable Water Management. Tysons, VA, June 25-28.
- Assessing and Improving Resilience of Wastewater Systems in Connecticut*. 2017. National Adaptation Forum. St. Paul, MN, May 9-11.
- Adaptation by Stealth: Understanding climate information use across scales and decision spaces in water management in the United States*. 2016. American Geophysical Union Annual Conference. San Francisco, CA, December.
- Climate Adaptation with Connecticut Municipalities and Utilities*. 2016 Service Learning Expo, University of Connecticut, Storrs, CT, April 19.
- Moving from Vulnerable to Resilient Wastewater Infrastructure in Connecticut*. 2015 CIRCA Faculty Forum, University of Connecticut, Storrs, CT, Nov. 5.
- Lessons Learned and a Framework for Wastewater Vulnerability and Resilience Assessment*. 2015 Connecticut Association of Flood Plain Managers Annual Conference and Meeting, Westbrook, CT, Oct. 21.
- Enhancing Manager and Stakeholder Awareness of and Responses to Changing Climatic Conditions and Their Impacts on Lake Erie*. 2015 National Adaptation Forum, St. Louis, MO, May 11-14.
- Bridging the Knowledge Gap towards more Resilient Environmental Decision Making (Invited)*. 2014. American Geophysical Union, San Francisco, CA, December 14-19.

## **ACADEMIC SERVICE**

- Science Advisor, *EoS*, February 2020 – present
- Associate Editor, *Frontiers in Climate, Climate Risk Management*, May 2019 – present
- Associate Editor, *Journal of the American Water Resources Association*, November 2018 – present
- Special Issue Managing Guest Editor, *Environmental Science & Policy*, Aug. 2019 – Aug. 2020.

Special Issue Managing Guest Editor, *Climate Risk Management*, 2013-2014

Special Issue Guest Editor, *Journal of the American Water Resources Association*, 2018

Manuscript Peer Review: Global Environmental Change; Climate Risk Management; Bulletin of the American Meteorological Society, Environment, Systems and Decisions; Environmental Studies and Sciences; Weather, Climate, and Society; Ecology and Society; Society & Natural Resource; Journal of the American Water Resources Association; Science Technology & Human Values; Journal of Water Resources Planning and Management; Climate Services; Water Resources Research; Environmental Science & Policy; Wires Climate Change

Proposal Peer Review: National Science Foundation; National Estuarine Research Reserve System Science Collaborative; New Jersey Sea Grant Consortium; National Oceanic and Atmospheric Administration; Great Lakes Integrated Sciences + Assessment Climate Assessment Grant proposals; California Sea Grant

Member, Water and Society Technical Committee, American Geophysical Union, 2016-present

Advisory Member, Long Island Sound Blue Plan, 2017 – present

Member, Long Island Sound Study Science and Technical Advisory Committee, 2013-present

Member, External Research Advisory Panel for the Connecticut Sea Grant College Program, 2016-2018 Omnibus Funding Cycle Strategic Review Process, November 2014

## **COMMUNITY SERVICE / OUTREACH**

Member, Governor's Climate Change Task Force, Adaptation Planning and Implementation Working Group, 2020 – present

New England Interstate Water Pollution Control Commission, Resiliency Training for Wastewater System Operators, 2017, May 2019, June 2019

Eastern Region Water Utilities Coordinating Committee, March 8, 2017 presentation on DPH Drinking Water Vulnerability Assessment and Resilience Plan

Connecticut Department of Energy and Environmental Protection, Aug. 18, 2016 presentation on wastewater resilience posted on DEEP's website at [http://www.ct.gov/deep/lib/deep/water/municipal\\_wastewater/wastewaterresiliencepresentation0816-deep.pdf](http://www.ct.gov/deep/lib/deep/water/municipal_wastewater/wastewaterresiliencepresentation0816-deep.pdf)

Panelist, UConn Science Salon, *Climate Changing Connecticut*, Nov. 12, 2015.

Adult Learning Program Class (FSS-10) for about 70 adult students held at the Seabury Heritage Hall in Bloomfield, CT entitled, *Is Water the New Oil?*, October 29, 2015. More information available at, <http://alp.uconn.edu/calendars/calendar/FSS10IsWatertheNew/>

Member, Water Planning Council Advisory Group, Workgroup on Other State Plans for the State of Connecticut Water Planning process, 2014-2015.

## **GRADUATE AND UNDERGRADUATE RESEARCH SUPERVISED:**

Primary Advisor, PhD, UConn:

Cristina Mullin (defended dissertation Oct. 2019)

Berdakh Utemuratov, Azamat Tashev

Associate Advisor, PhD:

Samantha Basile, University of Michigan (defended dissertation Sept. 2019)

Tara Walsh, UConn (defended proposal Oct. 2019)

Sardorbek Musayev (defended proposal Oct. 2019)

Suganya Pandian, UConn



Jiaoyuan Huang, UConn  
Lori Fomenko, UConn  
Fikeralem Mezgebu, Addis Ababa University  
Dana Parr (Graduated 2015)

Primary Advisor, MS, UConn:  
Peter Watson (Graduated Dec. 2017)

Associate Advisor, MS, UConn:  
Tengyu Ding (Graduated 2019)  
Brandon Holland (Graduated 2019)

Undergraduate Research, Honors Thesis, UConn  
Christopher Gill (graduated May 2017)  
Brianna Church (graduated May 2016)

Undergraduate Research, UConn  
Hope Dymond (2019 – 2020)  
Reginald Denny (2019 – present)  
Tim Cannata (2017 - present)  
Austin Frank (2018 – 2019)  
Joshua Crittendon (minority), Bridget Burke, Carley Carbo (2017-2018)  
Katharine Katrichis (2017)  
Brian Tang, Alyssa Carroll, and William Grant (2015-2016, graduated May 2016)  
Caroline Rando and Jonathan Bossi (graduated May 2015)