# Lillian Clark Jeznach

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Roger Williams University, Bristol RI

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One Old Ferry Road
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## EDUCATION

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| SEPTEMBER 2016 | **University of Massachusetts, Amherst**<br>*Doctor of Philosophy in Civil Engineering*<br>Advisor: John E. Tobiason, Ph.D. |
| FEBRUARY 2013 | **University of Massachusetts, Amherst**<br>*Master of Science in Environmental Engineering* |
| MAY 2011 | **Worcester Polytechnic Institute**<br>*Bachelor of Science in Environmental Engineering* |

## PROFESSIONAL EXPERIENCE

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| 2022-Present | **Roger Williams University, Bristol RI**<br>Associate Professor of Engineering, School of Engineering |
| 2017-Present | **US Geological Survey, Northborough MA**<br>Faculty Appointment, Hydrologist |
| 2016-2022 | **Roger Williams University, Bristol RI**<br>Assistant Professor of Engineering, School of Engineering |
| 2011-2016 | **University of Massachusetts, Amherst MA**<br>Research Assistant, Department of Civil and Environmental Engineering |
| 2009 | **US Geological Survey, Northborough MA**<br>Hydrologist Summer Intern |

## TEACHING EXPERIENCE

### Roger Williams University

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| ENGR 110 | Engineering Graphics and Design |
| ENGR 115 | Computer Applications for Engineers |
| ENGR115H | Honors Computer Applications for Engineering |
| ENGR 320 | Environmental Engineering |

ENGR 403 Engineering Hydrology
ENGR 412 Water Resources Engineering
ENGR 428 Open Channel Hydraulics

**University of Massachusetts, Amherst**

ENGIN 191 First Year Engineering Seminar: FA15
CE-ENGIN 697z Organic Compounds in Water & Wastewater: FA14 (Guest Lecturer)
CE-ENGIN 672 Physical and Chemical Treatment Processes: SP14 (Laboratory TA)

**Teaching Training**

Summer 2021 RWU Summer Faculty Institute on Community Engaged Pedagogy
Summer 2020 RWU Summer Teaching Workshops
Summer 2016 RWU SECCM Teaching Workshop
Spring 2015 Introduction to College Teaching Course (3 credits)
Summer 2015 Center for the Integration of Teaching and Learning (CIRTL) courses
Fall 2015 First Year Engineering Teaching Seminar (1 credit)

## AWARDS, FELLOWSHIPS AND HONORS

2023 RWU Excellence in Teaching Award
2023 Faculty Spotlight on RWU Research: Spring 2023
2021 RWU Outstanding Woman on Campus
2020-2021 RWU Diversity and Inclusion Fellow
2020 RWU Belongingness in STEM Faculty Fellow
2020 ASCE Journal Editors Choice selection for month of August
2015 The Chrysler Foundation Scholarship, Society of Women Engineers
2013 Berger Award, CEE Department, University of Massachusetts, Amherst
2011 Tau Beta Pi Engineering Honor Society
2011 B.S. High Distinction, Worcester Polytechnic Institute

## UNDERGRADUATE MENTORING

**Research**

2023-present Ashlee Lewandowski (BS, Engineering), *Research topic*: Accessing freshwater and atmospheric microplastic in Rhode Island, Supported by *RWU RISE Program* Funds, and by *Foundation for Scholarship and Teaching* Funds

2022-present Michelle Kryl (BS, Engineering), *Research topic*: Accessing freshwater and atmospheric microplastic in Rhode Island, Supported by *Foundation for Scholarship and Teaching* Funds, and by the *Narragansett Bay Estuary Program Internship Program*

2022-present Bridget Finnerty (BS, Engineering), *Research topic*: Modeling algae dynamics in the Wachusett Reservoir, Supported by *Water Quality in DCR Reservoirs* Funds

2023 Grace DiBlasio (BS, Chemistry), *Research topic*: Accessing freshwater and atmospheric microplastic in Rhode Island, Supported by *Foundation for Scholarship and Teaching* Funds

2023 Aicha Chibani Bahi Amar (MS, Psychology), *Research topic*: Academic and Social Risk and Resilience Factors Among Engineering Students at RWU, Supported by *Foundation for Scholarship and Teaching* Funds and co-mentored with Selby Conrad and Maija Benitz

2023 Leslie Gutierrez Castro (MS, Psychology), *Research topic*: Academic and Social Risk and Resilience Factors Among Engineering Students at RWU, Supported by *Foundation for Scholarship and Teaching* Funds and co-mentored with Selby Conrad and Maija Benitz

2022-2023 Ethan Howard (BS, Engineering), *Research topic*: Accessing freshwater and atmospheric microplastic in Rhode Island, Supported by *Narragansett Bay Estuary Program Internship Program*

2021-2022 Jenny Kroon (BS, Engineering), *Research topic*: Modeling algae dynamics in the Wachusett Reservoir, Supported by *Water Quality in DCR Reservoirs* Funds

2020-2021 Eileen Sundberg (BS, Engineering), *Research topic*: Modeling algae dynamics in the Wachusett Reservoir, Supported by *Water Quality in DCR Reservoirs* Funds

2018-2020 Ashley Bosse (BS, Engineering), *Research topic 1*: Lead in premise plumbing, *Research topic 2:* Modeling algae dynamics in the Wachusett Reservoir, Supported by *Water Quality in DCR Reservoirs* Funds

**Senior Design**

2022-2023 Barboza, P, Bassi, S., Fournier, T., Lydon, C., Sagers, I. "Atmospheric Microplastic Fallout Collector Design and Implementation"
*RWU Blue Tech Challenge semi-finalists*

2021-2022 Andes, C., Benson, N., Chesney, O., Dedonato, M. "Dundrey Brook: Flood Analysis and Mitigation"

2020-2021 DiScipio, A., Keefe, N., Sundberg, E. "Analysis and design of stormwater BMPs in the Pawtuxet River watershed"

2017-2018 Agnalt, S., DelSanto, A., Helms, G., Trant, A., Srey, J. "Wearable air pollution sensors that would crowd source pollution hot spot data"

2016-2017 Ahl, C., Capistran, N., Hann, B., Newton, M. "Chrysosphaerella Bloom Dynamics in the Wachusett Reservoir"
*2nd Place in NEWWA Fresh Ideas Student Poster Competition*

## PUBLICATIONS

### Journal Publications

**Jeznach, L.C.**, Benitz, M.A., & Conrad, S.M. (2023). A multi-year study of engineering self-efficacy in the US: exploring gender differences in a small engineering program. International Journal of Gender, Science and Technology, 15(1), 91–112. Retrieved from https://genderandset.open.ac.uk/index.php/genderandset/article/view/895

**Jeznach, L.C.**, Kroon, J., Sundberg, E., Bosse, A. (2023) "Modeling the effects of reservoir operation on algal dynamics" Case Studies in Chemical and Environmental Engineering. https://doi.org/10.1016/j.cscee.2023.100309

**Jeznach, L.C.**, Granato, G.E., Sharar-Salgado, D., Jones, S.C., and Imig, D. (2023), Assessing potential effects of climate change on highway-runoff flows and loads in southern New England by using planning-level space-for-time analyses: in Compendium of Papers for the Transportation Research Board 102nd Annual Meeting January 8–12, 2023, Washington, D.C., Paper number 23-00625, 26 p. https://doi.org/10.1177/03611981231155183

**Jeznach L.C.**, Mohan, A., Reckhow, D.A., Tobiason, J.E. (2020) "Modeling hydrocarbon fate and transport in a drinking water reservoir", Journal of Environmental Modeling and Assessment. doi: 10.1007/s10666-020-09728-4.

**Jeznach, L.C.**, Granato, G.E. (2020) "Comparison of SELDM simulated total-phosphorus concentrations with ecological impervious-area criteria", Journal of Environmental Engineering. Vol 146, No. 8, 10 p. doi: 10.1061/(ASCE)EE.1943-7870.0001763 – *Featured in the "Editors Choice" section in August 2020*

**Jeznach L.C.**, Hagemann, M., Park, M., Tobiason, J.E. (2017) "Proactive modeling of water quality impacts of extreme hydrologic events in a drinking water reservoir", Journal of Environmental Management. Vol 201, pp. 241-251, doi: 10.1016/j.jenvman.2017.06.047

**Jeznach, L.C.**, Jones, C., Matthews, T., Tobiason, J.E., and Ahlfeld, D.A. (2016) "A framework for modeling reservoir contaminant impacts on water quality", Journal of Hydrology, Vol 537, pp. 322-333, doi: 10.1016/j.jhydrol.2016.03.041

**Jeznach, L.C.** and Tobiason, J.E. (2015) "Future climate effects on thermal stratification in the Wachusett Reservoir", Journal-American Water Works Association, Vol 107, No. 4, pp. E197-E209, doi: 10.5942/jawwa.2015.107.0039

**Jeznach, L. C**., Tobiason, J. E., and Ahlfeld, D. P. (2014) "Modeling conservative contaminant effects on reservoir water quality" Journal-American Water Works Association, Vol. 106, No.6, pp. E295-E306, doi: 10.5942/jawwa.2014.106.0062

**Other Publications**

Granato, G.E., Spaetzell, A.B., **Jeznach, L.C.** (2023) "Approaches for Assessing Flows, Concentrations, and Loads of Highway and Urban Runoff and Receiving-Stream Stormwater in Southern New England with the Stochastic Empirical Loading and Dilution Model (SELDM)" U.S. Geological Survey Scientific Investigations Report 2023-5087, 152 p., https://doi.org/10.3133/sir20235087

Granato, G.E., Spaetzel, A.B., and **Jeznach, L.C.** (2022) "Model archive for analysis of flows, concentrations, and loads of highway and urban runoff and receiving-stream stormwater in southern New England with the Stochastic Empirical Loading and Dilution Model (SELDM)" U.S. Geological Survey data release, https://doi.org/10.5066/P9CZNIH5.

**Jeznach, L.C.**, Goodwill, J. (2021) "My Private Lead Service Line Replacement", Journal-American Water Works Association, Vol 113, No. 1, pp. 40-48, doi: 10.1002/awwa.1650

Granato, G.E., **Jeznach, L.C**. (2020) Model archive for analysis of the effects of impervious cover on receiving-water quality with the Stochastic Empirical Loading Dilution Model (SELDM): U.S. Geological Survey data release, https://doi.org/10.5066/P9K0Y7XR

Granato, G.E., and **Jeznach, L.C.** (2017) Communicating risk with graphics: U.S. Geological Survey, 12 Video lessons. Select lessons (as completed) available at: https://doi.org/10.5066/F7BG2M33

Cole, T. M., & Wells, S. A. (2017) Appendix B Water Quality. Wells, S.A., Cole, T.M., Berger, C., Rounds, S., Sullivan, A., Prakash, S., Vandenberg, J.A., Buchak, E. M. **Jeznach, L.C.**, Tobiason, J.E. CE-QUAL-W2: A two-dimensional, laterally averaged, hydrodynamic and water quality model, version 4.0

Granato, G.E., Desimone, L.A., Barbaro, J.R., and **Jeznach, L.C.** (2015) "Methods for evaluating potential sources of chloride in surface waters and groundwaters in the conterminous United States". U.S. Geological Survey Open-File Report 2015-1080, 89p., doi: 10.3133/ofr20151080.

**Conference Proceedings and Presentations**

Benitz, M., **Jeznach, L.C.**, Stewart, G., Thomas, C. (2024) "Introducing the Engineering Design Process with a Project Focused on Offshore Wind Energy." *American Society of Engineering Education (ASEE) Annual Conference & Exposition*, Portland, OR, June 23-26, 2024. Submitted for acceptance.

Kryl, M., Lewandoski, A., DiBlasio, G., Howard, E., **Jeznach, L.C.** (2023) "Assessing Microplastic Inputs to the Narragansett Bay". *2023 RWU Summer Scholars Symposium*, Bristol, RI, October 2023. Poster Presentation.

**Jeznach, L.C.,** Howard, E., Kryl, M., Sagers, I., Lydon, C., Fournier, T., Bassi, S., Barboza, P. (2023) "Microplastic Inputs to the Narragansett Bay. *Association for Environmental Engineering and Science Professors (AEESP) Research and Education Conference*, Northeastern University, June 2023. Oral Presentation.

**Jeznach, L.C.**, Granato, G.E., Sharar-Salgado, D., Jones, S.C., and Imig, D. (2023), "Assessing potential effects of climate change on highway-runoff flows and loads in southern New England by using planning-level space-for-time analyses". Compendium of Papers for the Transportation Research Board 102nd Annual Meeting January 8–12, 2023, Washington, D.C., Paper number 23-00625, 26 p.

**Jeznach, L.C.**, Kroon, J., Sundberg, E., Bosse, A. (2022) "Modeling the effects of reservoir operation on algal dynamics." *Association for Environmental Engineering and Science Professors (AEESP) Research and Education Conference*, Washington University in St. Louis, June 2022. Poster presentation.

DiScipio, A., Keefe, N., Sundberg, E., **Jeznach, L.C.** (2021) "Analysis and design of stormwater BMPs in the Pawtuxet River watershed." *New England Water Works Association Spring Conference and Exhibition*, March 2021. Virtual Presentation.

Benitz, M, **Jeznach, L.C.**, Conrad, S. (2021) "Understanding the Impacts of COVID-19 on Feelings of Stress and Anxiety in Women Engineering Students". 128th American Society of Engineering Education (ASEE) Annual Conference & Exposition, Long Beach, CA, July 26-29 2021. Oral Presentation and paper.

Benitz, M, **Jeznach, L.C.**, Conrad, S., (2019) "Gender differences in risk and resiliency in engineering students" *Society of Women Engineers Annual Conference: WE19*, Anaheim, California, November 2019. Oral Presentation (Benitz and **Jeznach**).

**Jeznach, L.C.**, Granato, G. (2019) "Evaluating total phosphorus concentrations of impervious runoff-discharge in downstream flows with the Stochastic Empirical Loading and Dilution Model" *Association for Environmental Engineering and Science Professors (AEESP) Research and Education Conference*, Arizona State University, Tempe, AZ, May 2019. Poster presentation.

Bosse, A., **Jeznach, L.C.**, Goodwill, J. (2019) "Private lead service line replacement effects on water quality: A case study" *Women at RWU Conference and Showcase*, Bristol, Rhode Island, May 2019. Poster.

Bosse, A., **Jeznach, L.C.**, Goodwill, J. (2019) "Private lead service line replacement effects on water quality: A case study" *New England Water Works Association Spring Conference and Exhibition*, Worcester, Massachusetts, April 2019. Poster.

Mohan, A.; **Jeznach, L.C.**; Tobiason, J.E.; Reckhow, D.A. (2018) "A sensitive solid phase micro-extraction technique for modelling impacts of hypothetical oil spills in fresh water sources" *AWWA Annual Conference and Exposition,* Las Vegas, Nevada, June 2018. Oral presentation.

Agnalt, S., DelSanto, A., Helms, G., Trant, A., Srey, J., **Jeznach, L.C.** (2018) "Wearable air pollution sensors that would crowd source pollution hot spot data". American Society for Engineering Education (ASEE) Northeast Annual Conference. University of Hartford, Hartford, CT. April 2018. Poster presentation.

**Jeznach, L.C.,** Granato, G. (2017) "Educational outreach for the new Stochastic Empirical Loading and Dilution Model (SELDM) for highway and urban stormwater analyses" *Association for Environmental Engineering and Science Professors (AEESP) Research and Education Conference*, University of Michigan, Ann Arbor, MI, June 2017. Oral presentation.

**Jeznach L.C.**, Mohan, A., Reckhow, D.A., Tobiason, J.E. (2017) "Modeling hydrocarbon fate and transport in a drinking water reservoir", *AWWA Annual Conference and Exposition*, Philadelphia, Pennsylvania, June 2017. Poster Presentation.

Ahl, C., Capistran, N., Hann, B., Newton, M., **Jeznach, L.C.** (2017) "Chrysosphaerella Bloom Dynamics in the Wachusett Reservoir", *New England Water Works Association Spring Conference and Exhibition*, Worcester, Massachusetts, April 2017. Poster. 2nd Place in Fresh Ideas Student Poster Competition.

**Jeznach L.C.**, Hagemann, M., Park, M., Tobiason, J.E. (2016) "Extreme precipitation events: potential impacts to raw surface water quality", *AWWA Annual Conference and Exposition*, Chicago, Illinois, June 2016. Oral Presentation.

**Jeznach, L.C.**, Tobiason, J.E. (2016) "Understanding reservoir contaminant impacts through proactive modeling efforts", *New England Water Works Association Spring Conference and Exhibition*, Worcester, Massachusetts, March 2016. Poster.

Hagemann, M., **Jeznach, L.C.**, Park, M. Tobiason, J.E. (2016) "Model design for predicting extreme precipitation event impacts on water quality in a water supply reservoir", American Geophysical Union, San Francisco, CA, February 2016. Oral Presentation.

**Jeznach, L.C.**, Tobiason, J.E. Ahlfeld, D.P. (2015) "Understanding reservoir contaminant impacts through proactive modeling efforts", *New England Graduate Student Water Symposium*, Amherst, Massachusetts, September 2015. Oral Presentation.

**Jeznach, L.C.**, Tobiason, J.E. Ahlfeld, D.P. (2015) "Understanding reservoir contaminant impacts through proactive modeling efforts", *International Water Association (IWA) Symposium on Lake and Reservoir Management*, Pembroke, Virginia, August 2015. Oral Presentation.

**Jeznach L.C.**, Tobiason, J.E., Hagemann, M., Park, M. (2015) "Extreme event impacts on source water quality", *Association for Environmental Engineering and Science Professors (AEESP) Research and Education Conference*, Yale University, New Haven, CT, June 2015. Poster.

**Jeznach L.C.**, Hagemann, M., Tobiason, J.E., Park, M. (2015) "Extreme event impacts on source water quality", *World Environmental and Water Resources Congress (EWRI)*, Austin, Texas, May 2015. Poster.

**Jeznach L.C.** and Tobiason, J.E. (2014) "Climate change impacts on the thermal stratification of the Wachusett Reservoir", *New England Graduate Student Water Symposium*, Amherst, Massachusetts, September 2014. Poster.

**Jeznach L.C.** and Tobiason, J.E. (2014) "Climate change impacts on the thermal stratification of the Wachusett Reservoir", *AWWA Annual Conference and Exposition*, Boston, Massachusetts, June 2014. Oral Presentation.

**Jeznach, L.C.** and Tobiason, J.E. (2013) "Impacts of a thermally stratified reservoir on contaminant spill behavior at a drinking water intake", *AWWA Annual Conference and Exposition*, Denver, Colorado, June 2013. Oral Presentation.

**Jeznach, L. C.**, Tobiason, J. E., and Ahlfeld, D. P. (2013) "Impacts of a thermally stratified reservoir on contaminant spill behavior at a drinking water intake", *New England Water Works Association Spring Conference and Exhibition*, Worcester, Massachusetts, April 2013. Poster.

**Jeznach, L. C.**, Tobiason, J. E., and Ahlfeld, D. P. (2012) "Using CE-QUAL-W2 to model a contaminant spill into the Wachusett Reservoir", *New England Water Works Association Spring Conference and Exhibition*, Worcester, Massachusetts, April 2012. Poster.

## INVITED PANELS, PRESENTATIONS, AND SEMINARS

**Jeznach, L.C.** "Modeling the effects of reservoir operations on algal dynamics" Roger Williams University Summer Research Brown Bag Seminar. Bristol, RI. June 2023.

**Jeznach, L.C.** "Modeling the effects of reservoir operations on algal dynamics" University of Rhode Island Department of Civil and Environmental Engineering Graduate Research Seminar. Kingston, RI. March 2022.

Campbell, J., Byrne, L., **Jeznach, L.C**. "Sustainability Across Disciplines Panel" Sponsored by the Roger Williams University Eco-Reps Club. Bristol, RI. April 2018.

**Jeznach, L.C.**, Moebius, J., Totten, E., "Women in Business Panel" Co-Sponsored by the Roger Williams University Mario J. Gabelli School of Business and the GSB Lean in Circle. Bristol, RI. November 2017.

**Jeznach, L.C**, Michael Rust. "Doing/Teaching Engineering at a Teaching Intensive Institution". Teaching at Teaching Intensive Institutions, 4th Annual Conference. Westfield State University, Westfield, MA. October 2017.

DasGupta, B., Hajir, F., **Jeznach, L.**, Osborne, B. "Women in Science at CNS: Accomplishments, Challenges, and Next Steps", Women in Science Initiative Panel. UMass, Amherst, MA. March 2016.

**Jeznach, L.,** "Source Water Quality". Advanced Principles of Water Treatment, Guest presentation. Worcester Polytechnic Institute, Worcester, MA. March 2016.

Awan, A., Dobosz, K., **Jeznach, L.**, Lui, T., Lynch, M., Roberts, R. School vs Industry Panel. Society of Women Engineers, UMass, Amherst, MA. November 2015.

Cranmer, Z., **Jeznach, L.**, Naik, A. Graduate School Panel. Society of Women Engineers, UMass Amherst, MA. February 2014.

## FUNDED PROJECTS

**Assessing Rhode Island Freshwater and Atmospheric Microplastics** (various awards totaling **$14,158**)

- *Foundation to Promote Scholarship and Teaching*, Roger Williams University, PI: **Jeznach, L.C.,** July 2023 – June 2024, Funding Awarded: $7,540
- *Blue Technology Challenge*, Roger Williams University, PI: **Jeznach, L.C.**, January 2023 – May 2023, Funding Awarded: $1,750
- *Foundation to Promote Scholarship and Teaching*, Roger Williams University, PI: **Jeznach, L.C.,** July 2022 – June 2023, Funding Awarded: $2,768
- *Narragansett Bay Estuary Program,* Student Internship, PI: **Jeznach, L.**, co-PI: Schmidt, C., October 2022 – May 2024, Funding Awarded: $2,100

**Water Quality in DCR Reservoirs** (various awards totaling **$74,000**)

- *University of Massachusetts, Amherst,* PI: Guzman, C., co-PI: **Jeznach, L.**, July 2022 – July 2024, Funding Awarded: $20,000

- *University of Massachusetts, Amherst,* PI: Kumpel, E., co-PI: **Jeznach, L.**, July 2020 – July 2021, Funding Awarded: $20,000
- *University of Massachusetts, Amherst,* PI: Tobiason, J., co-PI: **Jeznach, L.**, July 2018 – July 2020, Funding Awarded: $20,000
- *University of Massachusetts, Amherst,* PI: Tobiason, J., co-PI: **Jeznach, L.**, July 2016 – July 2018, Funding Awarded: $14,000

**Risk and Resiliency in Undergraduate Engineering Students** (various awards totaling **$38,463**)

- *Foundation to Promote Scholarship and Teaching*, Roger Williams University, PIs: Benitz, M.A, Conrad, S, **Jeznach, L.C.,** July 2023 – June 2024, Funding Awarded: $7,400
- *Foundation to Promote Scholarship and Teaching*, Roger Williams University, PIs: Benitz, M.A, Conrad, S, **Jeznach, L.C.,** July 2022 – June 2023, Funding Awarded: $11,900
- *Foundation to Promote Scholarship and Teaching*, Roger Williams University, PIs: Benitz, M.A, Conrad, S, **Jeznach, L.C.,** July 2021 – June 2022, Funding Awarded: $8,000
- *Foundation to Promote Scholarship and Teaching*, Roger Williams University, PIs: Benitz, M.A, Conrad, S, **Jeznach, L.C.,** July 2020 – June 2021, Funding Awarded: $8,163
- *Various RWU Offices*; Provost's Office ($500), SECCM ($1000), FSSNS ($500), Office of Enrollment Management ($1000), PIs Roger Williams University, Benitz, M.A, Conrad, S, **Jeznach, L.C.,** September 2018, Total Funding Awarded: $3,000.

**Roger Williams University Engineering Design Projects** (various awards totaling, **$1,386**)

- *Provost's Fund for Student Research*, Roger Williams University, **Jeznach, L.** and Senior Design Team, September 2022 – May 2023, for Project "Atmospheric Microplastic Fallout Collector Design and Implementation", Funding Awarded: $291.
- *Provost's Fund for Student Research*, Roger Williams University, **Jeznach, L.** and Senior Design Team, September 2017 – May 2018, for Project "Wearable Air Pollution Sensors that Would Crowd Source Pollution Hot Spot Data", Funding Awarded: $975.
- *Provost's Fund for Student Research*, Roger Williams University, **Jeznach, L.** and Senior Design Team, September 2016 – May 2017, for Project "Wachusett Reservoir Intake Modeling Study", Funding Awarded: $100.

**Graduate Women in STEM (GWIS) Undergraduate STEM Mentoring Program.** *Women for UMass Amherst*. Carswell, W. and **Jeznach, L.** January 2015 – January 2016. Funding Awarded: $3,000

## PROFESSIONAL SOCIETY MEMBERSHIPS

Association of Environmental Engineering and Science Professors (AEESP)
American Society of Civil Engineers (ASCE)
American Society of Engineering Education (ASEE)
American Water Works Association (AWWA)
New England Water Works Association (NEWWA)
Society of Women Engineers (SWE)
Tau Beta Pi (TBπ)

## CERTIFICATIONS

Fundamentals of Engineering (EIT), MA, No. 23278
Center for the Integration of Teaching and Learning (CIRTL) Associate
CITI Course Certified for Human Social and Behavioral Research (April 2018-present)

## SERVICE

### Roger Williams University

2021-Present Honors Advisory Council

2017-Present Women's Faculty Caucus

2019-Present SECCM Representative on University Disciplinary Committee

2016-Present Co-Advisor to Roger Williams Chapter of Society of Women Engineers

2022-2023 Graduate Program Development Committee

2019-2021 Co-Leader of New Faculty Learning Community

2016-2018 SECCM Representative on University Life Committee

### Professional

2023-Present *Regional Partner Committee representing Roger Williams University* – NOAA Southern New England Marine Debris Action Plan

2013-Present *Ad hoc reviewer* – Chemosphere, Environmental Fluid Mechanics, JOURNAL – American Water Works Association, Hydrology Research, Limnologica, Water; Journal of Environmental Engineering; US Geological Survey Publications

2021-2023 *Water Resources Committee* – New England Water Works Association

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| 2017-2020 | *Scholarship Committee* – New England Water Works Association |
| May 2019 | *Session moderator* – Urban and Agricultural Best Management Practices track – Association of Environmental Engineering and Science Professors (AEESP) Research and Education Conference |
| June 2017 | *Session moderator* – University Forum: Source to tap – American Water Works Association Annual Conference and Exhibition 2017 |
| Sept 2014 | *Session moderator* – Water Resources, Climate Change, and Hydrology – New England Graduate Student Water Symposium |

**Community**

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| May 2022 | Portsmouth, RI High School Engineering Project Presentation Judge |
| May 2020 | Portsmouth, RI High School Engineering Project Presentation Judge |
| Feb 2019 | Girl Scout Day at Roger Williams "Engineering!" facilitator |
| Feb 2018 | Girl Scout Day at Roger Williams "Physics is Phun!" facilitator |
| Feb 2016 | STEM Saturday for Girls, Medway MA, Workshop Facilitator, "What's in your water?" |
| Feb 2016 | Wachusett Regional High School, Holden MA, Science Fair Judge |
| May 2014 | Eureka! UMass, Amherst summer program for middle school girls interested in science |
| Feb 2014 | Wachusett Regional High School, Holden MA, Science Fair Judge |
| Oct 2013 | Women in Engineering and Computing Day at UMass facilitator |
| July 2013 | Eureka! UMass, Amherst summer program for middle school girls interested in science facilitator |