

CURRICULUM VITAE

Teresa E. Thornton, M.S., Ph.D.

Co-Founder, President, and CEO of *GET WET!*

Founded at the University of Maine
and

Coordinator of Scientific Research and Environmental Education,
Oxbridge Academy of the Palm Beaches, FL



CONTACT INFORMATION:

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(To protect student images, web site is password protected username: *thorntonsquared* password: *Happiness1*)

EDUCATION:

Ph.D. Forest Resources. University of Maine, Orono, ME August 2011
Human Dimensions of a School-Centered, Community-Based Environmental Monitoring Research (CBEMR) Program
Focusing on Private Drinking Water Wells in New England

M.S. Ecology and Environmental Science. University of Maine, Orono, ME 2006
Tracking Movement of Hexazinone (Herbicide) from Upland to Estuary via Groundwater

Teacher Certification Courses. Florida Atlantic University, Boca Raton, FL 1995-2002

B.A. Biology. West Chester University, West Chester, PA 1993

A.A. Associate of Arts. Community College of Philadelphia, PA 1989

FIELDS OF MAJOR SCIENTIFIC RESEARCH:

Land-Use Effects on Source Waters, Private Drinking Water Wells, and Resultant Coastal Ecosystems
Experiential Learning as a Motivator for Independent Research and Environmental Activism
School Centered, Community-Based Environmental Monitoring Research
The Effects on Social Capital and Trust on Stakeholder Networks
Source and Coastal Water Protection Through the Development of Citizen-Based Networks

CURRENT POSITIONS:

Co-Founder, President, and CEO of *GET WET! Project* 2003-Present

- Institute and facilitate the CBEMR program in seven states with direct management of the Florida section to assist more than 44 towns in the ownership of protection and management of source waters
- Management of 46 educational institutions, governing boards, local businesses, environmental non-governmental organizations (ENGOS), and governmental organizations as collaborative stakeholders
- Budget management, volunteer recruitment and coordination, scheduling, community recruitment, data management, public communication, web site management, and fund raising
- Grant writing with state organizations managing their individual programs

Coordinator of Sci. Research and Environ. Outreach Ed., Oxbridge Academy, WPB, FL 2011-Present
Quantitative & Qualitative Scientific Research (S401), Field Research (S201), & Honors Biology (S301)

- Instituted and implemented a successful research program whereby secondary students presented 62 posters and 12 talks at 22 different professional national conferences and 5 presentations to local authorities; earning 16 top awards
- Managed approximately 43 research projects annually with more than 32 collaborators from international, national, and local businesses, governing agencies, and institutions (see List of Collaborators)
- Assisted in the development of water curriculum with 12 professional organizations, ENGOS, conservation commissions, and institutions of education
- Created more than 53 community service projects with 19 different organizations that promote environmental health, water health, or water education
- Facilitate student publications and nurture stakeholder networks for long-term engagement
- Established international and professional research opportunities for students
- Instrumental in the county wide awards of *Green School of Excellence* (2012-2019) & *Green School of the Year* (2017)
- Founding faculty for a private college prep with a “*unique experiential approach to education that challenges students to learn by doing, and builds the skills and confidence they need to succeed for a lifetime*”

OTHER CURRENT PROFESSIONAL POSITIONS:

Reviewer and Member: Journal of American Water Resources Association

Reviewer: Journal of Science Education

PREVIOUS POSITIONS:

Colleges and Universities

Co-Instructor & GET WET! Researcher: University of Maine, Orono, ME 2008-2011
Environmental Education & Interpretation (PRT 452) (while graduate student)

- Managed, guided, and built cooperation among eight CBEMR projects: 80 collaborators, 23 teachers & over 700 students in 6 states
- Plan, budget and execute virtual and in person training workshops for all stakeholders
- Develop and manage curriculum, supply budget, and technical aspects of program (<http://getwetproject.org/>)
- Guided charges to create, develop, and implement experiential learning opportunities for local communities
- Pajek, Dreamweaver, NVivo, DragonSpeak, SPSS

MST Instructor: Mount. St. Mary College, Newburg, NY 2006-2008
Integrated Math, Science, & Technology I, II, & III and Biology Seminar

- Designed kinesthetic based science method courses for elementary educators, special education majors, and students that lacked confidence in their science and math skills
- Initiated experiential cooperative learning programs where undergraduates worked with local institutions, governmental agencies, and environmental organizations to create age appropriate watershed studies or activities for primary, elementary, and secondary students

Groundwater Research Assistant: University of Maine, Orono, ME 2003-2006
Community Liaison and Groundwater Field Technician (while graduate student)

- Designed and implemented field studies relating to the fate and transport of pesticides
- Developed a program that trained community volunteers, local government representatives, and K-12 students in three townships to manage a long-term watershed study in order to affect Environmental Protection Agency (EPA) standards on gravel extraction from sand and gravel aquifers, and the Maine Board of Pesticide Control (MBPC) assessment of pesticides in groundwater
- SeaCat SB 19, HPLC, HPGC, Garmin GPS, Solinist & Tremble XT, StructureScan™ Professional,
- MapInfo, Vertical Mapper, & ArcMap; Pajek, Dreamweaver, NVivo, DragonSpeak, SPSS, MODFLOW, MODPATH, TopoDrive, ParticleFlow
- Created and implemented professional water quality assessments as curriculum for the UMaine Upward Bound Program (NE Region)

Traditional and Alternative K-12 Educational Institutions

Secondary Science Educator: John Bapst College Prep, Bangor, ME 2005-2006
Freshman General Science & Honors Oceanography (while graduate student)

- Facilitated a field monitoring relationship between the secondary students, the Maine Department of Environmental Protection (MEDEP), the Environ.Chemistry Lab at UMaine, and other local area schools

Science Educator: Woodlands Middle School, Lake Worth, FL 1997-2003
Seventh & Eighth Grade Integrated Science

- Developed and implemented integrated science curriculum for courses as well as for teacher in-service training, and participated as a Core Team Facilitator, Pass Program Instructor, and After-School Program Facilitator and Instructor.

Science Education Specialist: South Florida Science Museum, Palm Beach, FL 1995-1997
Program Development and Science Teacher Education

- Pioneered the outreach, in-house, homeschool, afterschool, and school vacation programs: 200 students the initial year to well over 5,000 weekly, resulting in the present-day education department <https://www.sfsciencecenter.org/programs>
- Established teacher workshops and open houses for the more than 200 schools in Palm Beach County in order to foster a relationship with the public-school system
- Fundraising and department budget management
- Created prototypes for all activity books and supplemental education materials for major exhibits, including a published activity book

- Science Educator:** Great Explorations Hands-On Science Museum, St. Pete, FL 1993-1995
 Docent, Program Facilitator, & Curriculum Development
- Devised and implemented environmental education curriculum and programming for all summer, weekend, and day camps as well as afterschool programs
 - Organized, developed, and implemented field trips for the entire museum including responsibilities such as transportation, chaperones, funding, and insurance safety paperwork

CERTIFICATIONS AND AWARDS:

- Awarded by the American Water Resources Association 2017
Mary H. Marsh Medal for Exemplary Contributions to the Protection and Wise Use of the Nation's Water Resources
 Awarded by Entire Oxbridge Academy Student Body:
 Most Hard-Won "A" (Most Difficult Course) 2017-2018
 Students' Pet (Favorite Teacher) 2015-2016, 2016-2017
 Nominated by Oxbridge Academy and University of Maine Peers:
 Most Inspirational Teacher 2013-2014
 William T. Dwyer Award for Excellence in Education 2012-2013, 2013-2014
 EPA National Environmental Education Advisory Council 2013, 2014
 Northern Palm Beach County Teacher of the Year 2013
 College Awards:
 The Gamma Chapter of Xi Sigma Pi, Forestry Honors Society 2011
Distinguished Service Award, University of Maine 2009
 Phi Theta Kappa Honor Fraternity 1989
 Certifications:
 FL State Continuing Professional Educator in Science Education (Certification #768961) 1998-2019
 Lifeguard, CPR, Blood Borne Pathogen, & First Aid Certified by American Red Cross 2011-2019
 Nitrox Certified PADI Diver 2012-Present

GRANT WRITING:

- Co-author NSF with Calusa Waterkeepers In Progress
 Several small grants from The Groundwater Foundation, the AWRA, Florida Atlantic University, Florida Gulf Coast University, and Florida International University for students to attend national and regional Conferences
 (AWARDED approximately \$16,500) 2013-2019
 Co-author with Jessica Leahy "The Role of Social Capital, Trust and Learning in Solving Groundwater Quality and Quantity Issues in the Northeast with Citizen Science"
 (AWARDED \$555,000 USDA National Integrated Water Quality Program) 2008-2012
 Graduate Student Government: Travel Grant (AWARDED \$5,000) 2010

RELATED PROFESSIONAL SERVICE:

- Curriculum Development Committee Florida Atlantic University/Pine Jog Educational Connections to Ongoing
 Research Projects (E-Corp) MacArthur Beach State Park 2015-Present
 Curriculum Advisor, New Hampshire Green Mountain Conservation Group 2010-Present
 Session Moderator, AWRA Annual Conf. 2012-2018
 Science & Technology Committee, The Marshall Foundation 2011-2015
 Steering Committee, Annual South Florida Sea Level Rise Symposium 2011-2015
 Steering Committee, The Water Consortium Brown Bag Lunch Series 2011-2015
 Curriculum Planning Comm. FAU/Pine Jog Res. Water Research Institute: **H₂O to GO!** 2013, 2015
 Program Facilitator and Moderator, Consortium for Water Health, *Indian River Lagoon: 2014 Senate Decisions/Taxes and Citizen Responsibility* 2014
 Panel Member, AWRA Annual Conf. 2012
 Steering Committee, New England Private Well Symposium 2010, 2011
 Advisory Committee, Maine Environmental Literacy Coalition 2010
 Curriculum Advisor, Penobscot River Restoration Trust 2010
 Advisor/Facilitator Project Wild, Project Learning Tree & Project Wet 1998-2008
 Advisor, Mount Desert Island Water Quality Coalition Youth Watershed Forum 2004-2006
 Host, National Institute of Water Resources (NIWR) Annual Meeting 2004
 Facilitator and Educator, SFWMD & FAU Education Programs 1999

COMMUNITY SERVICE & OUTREACH:

Winding Waters Natural Area, FL	2016-Present
Arthur R Marshall Loxahatchee National Wildlife Refuge, FL	2011-Present
Grassy Waters Preserve, FL	2011-Present
Juno Beach, FL	2011-Present
Busch Wildlife Sanctuary, FL	2011-Present
Green Mountain Conservation Group, Ossipee, NH	2007-Present
Orange County Water Authority, Goshen, NY	2006, 2012-Present
North Scituate Conservation Commission	2008-Present
Jonathan Dickenson State Park, FL	2014-Present
Local Political Action Committee: Water Resources, Jupiter, FL	2017
Loggerhead Marine Life Center, FL	2015
Hobe Sound Wildlife Refuge, FL	2012-2016
21 st Century Community Learning Centers, West Palm Beach, FL	2013
Wakefield Conservation Commission, Wakefield, ME	2012
4-H Summer Program, ME	2008-2011
Northern & Southern Maine Children's Water Festival, Orono, ME	2008-2010
Oxford County SWCD, Poland Springs, ME	2008
Lamoine Conservation Committee, Lamoine, ME	2004-2006
Maine Toxic Action Commission, Blue Hill, ME	2004

SCHOOL & UNIVERSITY SERVICE:

<u>Oxbridge Academy:</u>	2011-Present
Green Club Advisor	
Instrumental in achieving county award <i>Green School of Excellence</i>	2012-2019
Awarded <i>Green School of the Year</i> (across two counties)	2017
Gay Straight Alliance (GSA) Co-Advisor	Medical Club Co-Advisor
Community Assistance Promoting Education (CAPE) Advisor	Diving Club Co-Advisor
Life Guard Training Advisor	
<u>Mount Saint Mary College:</u>	2006-2008
Committee on Committees	Environmental Committee
Energy Conservation Sub-Committee	Investigative Research on Campus (IROC)

PUBLICATIONS:

- Thornton, T.** 2019. *Encouraging the Next Generation to Manage and Protect Water Resources*. In progress
- Thornton, T.** 2019. *Factors that Contribute to the Recruitment of Professionals and Government Employees as Science Research Volunteers in the K-12 Classroom*. In progress
- Thornton, T.** 2015a. *Chapter 4 Part II: Facilitating Place-based, Original Research for the Individual Student, the Classroom, and the Community* in C. Kost (ed.), *ENGAGE! Exploring the Strange New World of Curriculum, Community, Collaboration and Innovation in 21st Century Independent Secondary Education*. (pp. 105-113). North Charleston, SC: CreateSpace
- Thornton, T.** 2015b. *Appendix III: Summer Assignment* in C. Kost (ed.), *ENGAGE! Exploring the Strange New World of Curriculum, Community, Collaboration and Innovation in 21st Century Independent Secondary Education*. (pp. 259-262). North Charleston, SC: CreateSpace
- Thornton, T.** 2015c. *Appendix: VIII: Student Research* in C. Kost (ed.), *ENGAGE! Exploring the Strange New World of Curriculum, Community, Collaboration and Innovation in 21st Century Independent Secondary Education*. (pp. 294-296). North Charleston, SC: CreateSpace
- Thornton, T.** and Leahy, J. 2012. *Trust in Citizen Science Research: A Case Study of the Groundwater Education Through Water Evaluation & Testing Program*. JAWRA. Vol. 48. No. 5: 1032-1040
- Peckenham, J. M., **Thornton, T.**, and Peckenham, P. 2012. *Validation of Student Generated Data for Assessment of Groundwater Quality*. Journal of Science Education and Technology. Vol. 21 No. 2: 287-294
- Thornton, T.** and Leahy, J. 2011. *Changes in Social Capital and Networks of New England: A Study of Community-Based Environmental Management Through a School-Centered Research Program*. Journal of Science Education and Technology. Vol. 21. No. 1: 167-182
- Peckenham, J., **Thornton, T.**, and Whalen, B. 2009. *Sand and Gravel mining: Effects on ground water resources in Hancock County, Maine, USA*. Environ. Geol. 56:1103-1114

Thornton, T., 2006. Hexazinone Use on Maine's Blueberry Growing Regions: Environmental Impacts to Surface Water and Groundwater from 1983-2005 Electronic Theses and Dissertations.. Paper 1185

Peckenham, J., Schmitt, C., and **Thornton, T.** 2005. Source Water Lakes and Ponds as Water Quality References. White Paper, University Council on Water Resources

STUDENT PUBLICATIONS:

Stirm, R. and **Thornton, T.** 2018. "Quantification of Invasive *Osteopilus Septentrionalis* vs. Native *Anurans* in the Arthur R. Marshall Loxahatchee National Wildlife Refuge Boynton Beach, Florida 2013 – Present." Submitted to Journal of Herpetology 11.2018

Rubsamen, J. and **Thornton, T.** 2018. Ibuprofen and Copper as Chemical Markers to Identify Fecal Waste and Fertilizer in Southeastern Florida Waterways. Submitted to JAWRA 11.2018

Bergonzoli, I. and **Thornton, T.** 2018. Cancerous By-Products Found In Drinking Water As A Result Of Private Well Homeowner Behavior. Submitted to JAWRA 10.2018

Campbell, K., and **Thornton, T.** 2018. The Result of a Local Initiative to Properly Manage Soft Plastics Along South Florida's Well Known Sea Turtle Nesting Beach: A Case Study of Juno Beach, FL. Submitted to IJIES: Environmental Conservation 10.2018

Cavard, M. and **Thornton, T.** 2018. Degradation of Water Quality Through the Use of Synthetic Titanium Dioxide Nanoparticles and Oxybenzone: The Unfamiliarity of the General Public to Sunscreen Toxicity on Coral Reef Biotas. Submitted to Aquatic Conservation: Marine and Freshwater Ecosystems 10.2018

Linck, R. Mirkin, E., Dukor, R., and **Thornton, T.** 2018. Fate and Transport Modeling of Chemical Contaminates Analyzed from Source Waters that Lead to Toxic Megablooms in the Saint Lucie Watershed of South Florida. Submitted to Environmental Toxicology 10.2018

Maniti, F. and **Thornton, T.** 2018. Using a Local Political Action Project to Control Fishery-Generated Soft Plastic Debris on the Turtle Nesting Beaches of Florida's South-Eastern Coast. Submitted to IWA Publishing 3.2018

McClure, M. and **Thornton, T.** 2018. Quantification of Cypress Loopers in Arthur R Marshall Loxahatchee National Wildlife Refuge. Submitted to Journal of Env. Ent. 9.2018

PROFESSIONAL CONFERENCE PRESENTATIONS:

Thornton, T. 2018. A Step by Step Format to Engage Stakeholders and Facilitate Community-Based, Place-Based Water Research. Annual AWRA Conf., Baltimore, MD

Thornton, T. 2017. Methodologies for Educators to Facilitate Community-Based, Place-Based Water Research in Secondary Schools. Annual AWRA Conf., Portland, OR

Thornton, T. 2016. Encouraging Community-Based Graduate Level Water Research in Secondary Education. Annual AWRA Conf., Orlando, FL

Thornton, T. 2015. Developing Community-Based Environmental Monitoring Research as Curriculum to Protect Drinking Water Sources. Annual AWRA Conf., Denver, CO

Thornton, T. and Peckenham, J. 2014. Incorporating and Assessing Newly Implemented Common Core Objectives Through the Evaluation of a School-Centered, Community-Based Research (CBEMR) Project Focused on Student Managed Groundwater Protection. 50th Annual AWRA Conf., Tysons Corner, VA

Thornton, T. 2014. Community-based environmental Monitoring Research as a STEM program. Green Schools Annual Conf., West Palm Beach, FL

Thornton, T. 2014. Encouraging Graduate Level Research in Secondary Education. 23rd Annual SW FL Water Res. Conf., Fort Myers, FL

Thornton, T. 2013. Developing Meaningful Collaborations through a Community-Based Groundwater Monitoring Research Program. The Groundwater Foundation National Conf., Orlando, FL

Thornton, T. 2013. Encouraging the Next Generation to Manage and Protect Water Resources. AWRA Annual Conf., Portland OR

Peckenham, J., and **Thornton, T.** Citizen Science Contributions to the Understanding of Well Water Quality. AWRA Annual Conf. Portland, OR, 2013

Thornton, T. 2013. The Effects of Sea Level Rise on Private Drinking Water Wells. Sea Level Rise Symposium, West Palm Beach, FL

Thornton, T. 2013. Community-Based Environmental Monitoring Research as Curriculum. Green Schools National Conf., West Palm Beach, FL

Peckenham, J., and **Thornton, T.** 2013. Indicators of Groundwater Quality: Understanding Trends and Uncertainty. Maine Water Conf., Bangor, ME

Thornton, T., Leahy, J., and Peckenham, J. 2012. Groundwater Protection through a Citizen-Based Private Well Testing Program. Annual AWRA Conf., Jacksonville, FL

- Thornton, T.** 2012. *Assuring Collaborative Communities in Environmental Education Research*. STEMtech Conf., The League for Innovation in the Community College, Kansas City, MO
- Thornton, T.,** Leahy, J., and Peckenham, J. 2011. *Evaluating a Community Based Environmental Monitoring Research Project (CBEMR) for Successful Private Well Education, Monitoring, and Research*. NE Private Well Water Symp., Southbury, CT
- Thornton, T.** and Leahy, J., 2011. *Factors that affect the recruitment of professionals and government employees as volunteers in the classroom of a school-based environmental monitoring program*. Citizen Sci. Symp., Orono, ME
- Thornton, T.,** Leahy, J. 2011 *Social Capital and Social Network Changes in a School-Centered Research Program that Promotes Community Management of Drinking Water Sources*. Maine Annual Water Conf., Augusta, ME
- Thornton, T.,** Leahy, J., and Johnson, T. 2011. *Using a Community Based Environmental Monitoring Research Project (GET WET!) to Determine What Factors of a Place-based Education Project Constitute Successful Community Management of Natural Resources*. Eastern Educational Res. Association Annual Conf., Sarasota, FL
- Thornton, T.,** Leahy, J., and Johnson, T. 2010. *Analyzing social networks to determine the benefits of a community based environmental monitoring research project (GET WET!) in natural resource management*. 16th International Symposium on Society and Resource Management, Corpus Christi, TX
- Thornton, T.,** Straub, C., Leahy, J., Peckenham, J., Wilson, L., Jemison, J., and Mac Rae, J. 2010. *GET WET!: Community-based Groundwater Monitoring, Research, Outreach, and Public Education to Assist Communities in Natural Resource Management*. New Hampshire DES Drinking Water Source Protection, American Ground Water Trust, Concord, NH
- Leahy, J., **Thornton, T.,** Straub, J. 2010. *Evaluating Groundwater Partnerships through a Mixed Method Social Science Approach*. Maine Annual Water Conf., Augusta, ME
- Thornton, T.,** Straub, C., Leahy, J., Peckenham, J., Wilson, L., Jemison, J., and Mac Rae, J. 2009. *Using Public Schools as the Community Center to Promote Private Well Education, Monitoring, and Research*. Northeast Private Well Water Symposium, Portland, ME
- Thornton, T.,** Straub, C., Leahy, J., Peckenham, J., Wilson, L., Jemison, J., and Mac Rae, J. 2009. *Community Based Research Alternatives for Water Quality Monitoring in the Northeast*. NE Geologic Society of America Annual Conf., Portland, ME
- Straub, C., **Thornton, T.,** Leahy, J., Peckenham, J., Wilson, L., Jemison, J., and MacRae, J. 2009. *Citizen Science: Solving Groundwater Issues in New England*. Maine Annual Water Conf., Portland, ME
- Thornton, T.** and Peckenham, J. 2008. *Using Data from Community-Centered Research to Support Management of Groundwater Resources*. Maine Annual Water Conf., Augusta, ME
- Leahy, J., **Thornton, T.,** Straub, C., Peckenham, J., Wilson, L., Jemison, J., and Mac Rae, J. 2008. *Citizen and Volunteer Science: A Review and Future Directions within Human Dimensions Research*. Vermont EPSCoR/NSF Water Dynamics Conf., Burlington, VT
- Thornton, T.** and Peckenham, J. 2007. *The Relationship between Sand and Gravel Mining and Water Resources: Community Centered Research to Support Groundwater Management*. American Water Resources Assoc. Annual Conf., Albuquerque, NM
- Thornton, T.** and Peckenham, J. 2006. *Can Gravel Mining and Water Supply Wells Coexist?* AWWA Annual Conf., Baltimore, MD
- Thornton, T.** and Peckenham, J. 2005. *The Future of Drinking Water in Maine*. New England Water Works Association 124th Annual Conf., Rockland, ME
- Thornton, T.** 2005. *Hexazinone Movement from Upland Soils to Surface Waters via Groundwater*. Maine Annual Water Conf., Augusta, ME
- Thornton, T.** and Osher, L. 2005. *Hexazinone Movement from Upland Soils to Surface Waters via Groundwater*. NE Branch Amer. Society of Agronomy/Soil Science Society of Amer., Bordentown, NJ
- Thornton, T.** 2004. *Tracking Hexazinone from Upland to Estuary*. Maine Ann. Water Conf., Augusta, ME

SECONDARY STUDENT PROFESSIONAL CONFERENCE PRESENTATIONS:

Papers

- Rubsamen, J. and **Thornton, T.** 2018. *Using Ibuprofen and Copper as Chemical Markers to Identify Human Waste, Animal Waste, and Fertilizers in Six Municipalities of Southeastern Florida Coastal Waterways*. Annual AWWA Conf., Baltimore, MD
- Cavard, M. and **Thornton, T.** 2017. *Degradation of Water Quality Through the Use of Synthetic Titanium Dioxide Nanoparticles and Oxybenzone: The Unfamiliarity of the General Public to Sunscreen Toxicity on Coral Reef Biotas*. Annual AWWA Conf., Portland, OR **AWARDED 1st**

- Linck, R. Mirkin, E., Dukor, R., and **Thornton, T.** 2017. *Fate and Transport Modeling of Chemical Contaminates Analyzed from Source Waters that Lead to Toxic Megablooms in the Saint Lucie Watershed of South Florida*. Annual AWRA Conf., Portland, OR
- Maniti, F. and **Thornton, T.** 2017. *Using a Local Political Action Project to Control Fishery-Generated Soft Plastic Debris on the Turtle Nesting Beaches of Florida's South-Eastern Coast*. Annual AWRA Conf., Portland, OR
- Garelick, B. and **Thornton, T.** 2016. *Evaluating the Knowledge of Self-Reported Environmentalists' Regarding Incentives and Enforcements of the Everglades Federal Mandates*. Annual AWRA Conf., Orlando, FL
- Hong, M. and **Thornton, T.** 2016. *Quantification of the Herbicide Atrazine in the Canals of the Eastern Everglades and in the Caloosahatchee Watershed*. Annual AWRA Conf., Orlando, FL
- Zhang, N. and **Thornton, T.** 2016. *Necrosis in The Caloosahatchee Watershed and Lower San Carlos Bay: Using Computer Models to Compare the Effects of Precipitation Runoff to Lake Okeechobee Releases*. Annual AWRA Conf., Orlando, FL
- Bergonzoli, I. and **Thornton, T.** 2015. *The Behavior Economics of a Private Well Water Community in the Face of an Unexplained Cancer Scare*. Annual AWRA Conf., Denver, CO, **AWARDED 4th**
- Stirm, P. and **Thornton, T.** 2015. *A Three-Year Study on the Health Effects of Glyphosate on Vegetation in the Arthur R Marshall Loxahatchee National Wildlife Refuge Cypress Swamp 2013-2015*. Annual AWRA Conf., Denver, CO **AWARDED: Honorable Mention**
- Stirm, P. and **Thornton, T.** 2015. *A Comparative Study of Stabilizing Beach Vegetation and Structures Between Fort Lauderdale and Jupiter, Florida*. Annual AWRA Conf., Denver, CO
- Bergonzoli I., and **Thornton, T.** 2014. *Contaminants in Drinking Water as a Result of Private Well Homeowner Behavior*. 50th Annual AWRA Conf., Tysons Corner, VA
- Silvestrini, J., and **Thornton, T.** 2014. *Using Native Algae Coelastrum (Col.) 108-5 to Manage Industrial Effluents and Filter Wastewater*. 50th Annual AWRA Conf., Tysons Corner, VA

Posters

- Carter, L. and **Thornton, T.** 2019. *Mapping the Pharmaceutical NSAID Flunixin in Surface Waters as a Result of Runoff from Large Animal Waste, Southeast Florida*. 27th An. Southwest Fl. Water Res. Conference, Ft Myers, FL
- Conklin, M. and **Thornton, T.** 2019. *Using Ibuprofen as a Marker for Septic Waste in Private Well Water in the Flood Prone Residential Areas of Jupiter, FL*. 27th An. Southwest Fl. Water Res. Conference, Ft Myers, FL
- McKenna, Q., and **Thornton, T.** 2019. *Identification of Toxic Microcystis and β -methylamino-L-alanine in Coastal Golf Course Ponds*. 27th An. Southwest Fl. Water Res. Conference, Ft Myers, FL
- Llyod-George, S., Turcott, B., and **Thornton, T.** 2019. *Development of a Community-Driven Mobile Phone Application to Map and Identify Beta-Methylamino-L-Alanine Contamination in the South Florida Region*. 27th An. Southwest Fl. Water Res. Conference, Ft Myers, FL
- Rubsamen, J. and **Thornton, T.** 2018. *Using Ibuprofen and Copper as Chemical Markers to Identify Human Waste, Animal Waste, and Fertilizers in Six Municipalities of Southeastern Florida Coastal Waterways*. 27th An. Southwest Fl. Water Res. Conference, Ft Myers, FL **AWARDED 1st**
- Weger, B., Tremain, D. M., and **Thornton, T.** 2019. *Bioaccumulation of Methylmercury Levels in Lionfish (Scorpaenidae) from the Southeast Atlantic Waters*. 27th An. Southwest Fl. Water Res. Conference, Ft Myers, FL **AWARDED 2nd**
- Carter, L. and **Thornton, T.** 2018. *The Determination of the Pharmaceutical NSAID Flunixin in Surface Water Sources as a Result of Large Animal Waste Runoff in Rural Communities of South Florida*. Annual AWRA Conf., Baltimore, MD **AWARDED 1st**
- Conklin, M. and **Thornton, T.** 2018. *Fecal Contamination in Private Well Water from Septic Tanks in the Flood Prone Residential Areas of Jupiter, FL*. Annual AWRA Conf., Baltimore, MD
- Weger, B., Tremain, D. M., and **Thornton, T.** 2018. *Bioaccumulation of Methylmercury Levels in Lionfish (Scorpaenidae) Based Off Fish Length and Mass From The Southeast Atlantic Floridian Waters*. Annual AWRA Conf., Baltimore, MD
- McKenna, Q., and **Thornton, T.** 2018. *The Quantification of Toxic Microcystis and β -methylamino-L-alanine Beyond the Visible Periphery of Algal Super Plumes*. Annual AWRA Conf., Baltimore, MD
- Llyod-George, S., Turcott, B., and **Thornton, T.** 2018. *Development of a Mobile Phone Application to Detect Beta-Methylamino-L-Alanine Contamination in the South Florida Region*. Annual AWRA Conf., Baltimore, MD
- Garelick, S. J. Dukor, R. and **Thornton, T.** 2018. *Characterization and Comparison of Human, Bovine, Sheep, Pig, Goat and Rat Serum Albumins by FT-IR Spectroscopy and Sequence Comparison*. American Chemical Society Conf., Tampa, FL

- Stirm, R. and **Thornton, T.** 2018. Quantification of Invasive *Osteopilus Septentrionalis* vs. Native Anurans in the Arthur R. Marshall Loxahatchee National Wildlife Refuge Boynton Beach, Florida 2013 – Present. 41st Annual Herpetology Conf., Gainesville, FL
- Rubsamen, J. Dukor, R., and **Thornton, T.** 2018. Fecal Matter Origin in the South Florida Surface Waters. Annual SW FL Water Res. Conf., Ft Myers, FL **AWARDED 1st**
- Campbell, K., and **Thornton, T.** 2018. The Result of a Local Initiative to Properly Manage Soft Plastics Along South Florida's Well Known Sea Turtle Nesting Beach: A Case Study of Juno Beach, FL. Annual Southwest FL Water Res. Conf., Ft Myers, FL
- Cavard, M. and **Thornton, T.** 2018. Degradation of Water Quality Through the Use of Synthetic Titanium Dioxide Nanoparticles and Oxybenzone: The Unfamiliarity of the General Public to Sunscreen Toxicity on Coral Reef Biotas. Annual SW FL Water Res. Conf., Ft Myers, FL
- Linck, R. Mirkin, E., Dukor, R., and **Thornton, T.** 2018. Fate and Transport Modeling of Chemical Contaminates Analyzed from Source Waters that Lead to Toxic Megablooms in the Saint Lucie Watershed of South Florida. SW FL Water Res. Conf., Ft Myers, FL **AWARDED 3rd**
- Maniti, F. and **Thornton, T.** 2018. Using a Local Political Action Project to Control Fishery-Generated Soft Plastic Debris on the Turtle Nesting Beaches of Florida's South-Eastern Coast. SW FL Water Res. Conf., Ft Myers, FL
- McClure, M. and **Thornton, T.** 2017. Quantification of Cypress Loopers in Arthur R Marshall Loxahatchee National Wildlife Refuge. Entomological Society of America Annual Conf., Denver, CO
- Chen, N., **Thornton, T.**, and Hinkley, K. 2017. A Comparative Pyrolysis of Microalgae *Botryococcus braunii*, *Spirulina Sp.*, and *Chlorella Sp.* American Institute of Chemical Engineers, Minneapolis MN
- Bodnick, Z., and **Thornton, T.** 2017. Edible Biodegradable Glycerol Plasticized Starch Bio-Plastics Containing Lipid Emulsions Produced Specifically for Use in the Fishing Industry. Annual AWRA Conf., Portland, OR
- Campbell, K., and **Thornton, T.** 2017. The Result of a Local Initiative to Properly Manage Soft Plastics Along South Florida's Sea Turtle Nesting Beach: A Case Study of Juno Beach, FL. Annual AWRA Conf., Portland, OR
- Coelho, L., Turner, L., and **Thornton, T.** 2017. Validating the Quantification of Heavy Metals in Public and Private Drinking Water Systems Using Inductively Coupled Plasma - Mass Spectrometry. Ann. AWRA Conf., Portland, OR
- McGould, M., and **Thornton, T.** 2017. The Elimination of Watercraft Antifouling Paints: The Use of Ultrasonic Soundwaves for Small Scale Recreational and Commercial Applications. Annual AWRA Conf., Portland, OR
- Rubsamen, J. Dukor, R., and **Thornton, T.** 2017. An Examination of the Fecal Matter Origin on the South Florida Beaches by Studying the Sucralose Levels in Selected Regions. Ann. AWRA Conf., Portland, OR
- Turner, L., and **Thornton, T.** 2016. Using the Community-Based Environmental Monitoring Research Program GET WET! to quantify Heavy Metals in Public and Private Drinking Water. Annual AWRA Conf., Orlando, FL & 26th Annual SW FL Water Res. Conf., Ft Myers, FL. **AWARDED 1st**
- Zhang, N. and **Thornton, T.** 2016. Necrosis in The Caloosahatchee Watershed and Lower San Carlos Bay: Using Computer Models to Compare the Effects of Precipitation Runoff to Lake Okeechobee Releases. Annual SW FL Water Res. Conf., FGCU, Ft Myers, FL.
- Zhang, N., Aldecoa, A. and **Thornton, T.** 2016. Determination of Seagrass Decline Within the Perimeter of the Snook Islands in the Lake Worth Lagoon, Palm Beach County, Florida. 26th Annual SW FL Water Res. Conf., FGCU, Ft Myers, FL. **AWARDED 2nd**
- Garelick, B. and **Thornton, T.** 2016. Evaluating the Knowledge of Self-Reported Environmentalists' Regarding Incentives and Enforcements of the Everglades Federal Mandates. Annual SW FL Water Res. Conf., FGCU, Ft Myers, FL. **AWARDED 3rd** (tied)
- Hermiz, E., Dukor, R., and **Thornton, T.** 2016. Using the RamTest-APPTM Handheld Raman Identifier Gun (BioTools, Inc) to Validate Deadly Contaminants in End Use Locations of Public and Private Water Systems. Annual AWRA Conf., Orlando, FL & Annual SW FL Water Res. Conf., Ft Myers, FL. **AWARDED 3rd** (tied)
- Hong, M. and **Thornton, T.** 2016. Quantification of the Herbicide Atrazine in the Canals of the Eastern Everglades and in the Caloosahatchee Watershed. Annual SW FL Water Res. Conf., Ft Myers, FL.
- Klein, C., Dorfman, S. Crider, M., and **Thornton, T.** 2016. Quantifying Fish Populations of the Grassy Waters Preserve to Determine Overall Health of the Drinking Water Source for West Palm Beach, FL. Annual AWRA Conf., Orlando, FL
- Pearson, D., **Thornton, T.**, and Dermody-McKeen, A. 2016. The Validation of Carbon Sequestration in the Histosol Soils of the West Palm Beach Florida Drinking Water Source, Grassy Waters Preserve. Annual AWRA Conf., Orlando, FL
- Rocco, D., and **Thornton, T.** 2016. Surface Water Quantification of a Carcinogenic Herbicide (2,4D) in Water Hazards on Public Golf Courses and the Subsequent Exposure Awareness of the South Florida Junior PGA. Annual AWRA Conf., Orlando, FL

- Stirm, P and **Thornton, T.** 2015. *A Three Year Study on the Health Effects of Glyphosate on Vegetation in the Arthur R Marshall Loxahatchee National Wildlife Refuge Cypress Swamp 2013-2015*. Annual SW FL Water Res. Conf., FGCU, Ft Myers, FL. [AWARDED 1st](#)
- Clement, B., **Thornton, T.**, and Josan, M.S. 2015. *Perceived Monetary Values of the West Palm Beach, FL Drinking Water Source, Grassy Waters Preserve: Rural vs. Urban Residents. Willingness to Pay-Willingness to Accept*. Annual SW FL Water Res. Conf., Ft Myers, FL. [AWARDED 2nd](#)
- Spritz, S. **Thornton, T.**, and Josan, M. 2015. *Levels of Heavy Metals from Transboundary Air Pollution Measured in the Tissues of Tillandsia Fasciculata and Balbasiana, Grassy Waters Preserve (Drinking Water Source), West Palm Beach, FL*. 25th Annual SW FL Water Res. Conf., FGCU, Ft Myers, FL. [AWARDED 3rd](#)
- Zhang, N., Aldecoa, A. and **Thornton, T.** 2015. *Determination of Seagrass Decline Within the Perimeter of the Snook Islands in the Lake Worth Lagoon, Palm Beach County, Florida*. Annual AWRA Conf., Denver, CO
- Clement, B., **Thornton, T.**, and Josan, M.S. 2015. *Perceived Monetary Values of the West Palm Beach, FL Drinking Water Source, Grassy Waters Preserve: Rural vs. Urban Residents. Willingness to Pay-Willingness to Accept*. Annual AWRA Conf., Denver, CO
- Dermody-McKeen, A., **Thornton, T.** 2015. *The Potential for Carbon Sequestration in the Histosol Soils of the West Palm Beach Florida Drinking Water Source, Grassy Waters Preserve*. Annual AWRA Conf., Denver, CO
- Fischer, D. Beckford, C. and **Thornton, T.** 2015. *Beach Erosion Analysis Through Digitization of Historic Photos in a Geographic Information System Program, Fort Lauderdale Florida 2001-2015*. Ann. AWRA Conf., Denver, CO
- Spritz, S. Thornton, T., and Josan, M. 2015. *Levels of Heavy Metals from Transboundary Air Pollution Measured in the Tissues of Tillandsia Fasciculata and Balbasiana, Grassy Waters Preserve (Drinking Water Source), West Palm Beach, FL*. Annual AWRA Conf., Denver, CO
- Dermody-McKeen, A. & **Thornton, T.**, 2015. *The Potential for Carbon Sequestration in Grassy Waters Preserve*. 24th Annual SW FL Water Res. Conf., Ft Myers, FL [AWARDED 1st](#)
- Sivestrini, J. & **Thornton, T.** 2015. *Algae for Use in Carbon Sequestration and Wastewater Treatment*. 24th Annual SW FL Water Res. Conf., Ft Myers, FL. [AWARDED 2nd](#)
- Spritz, S. & **Thornton, T.** 2015. *Heavy Metals Found in the Tissue of Bromeliads (Tillandsia fasciculata and balbisiana) from Long-range Transboundary Air Pollution*. 24th Annual SW FL Water Res. Conf., Ft Myers, FL [AWARDED 3rd](#)
- Stirm, P., & **Thornton, T.** 2015. *A Comparative Study of Stabilizing Beach Vegetation and Structures between Fort Lauderdale and Jupiter Florida*. 24th Annual SW FL Water Res. Conf., Ft Myers, FL
- Stirm, P., & **Thornton, T.** 2015. *A Field Study and Health Evaluation of the Arthur R. Marshall Loxahatchee National Wildlife Refuge (ARMLNWR) Cypress Swamp (CS) Vegetation Fall 2013- Spring 2014*. 24th Annual SW FL Water Res. Conf., Ft Myers, FL
- Aldecoa, N. & **Thornton, T.** 2015. *Historical Seagrass Decline In Surfeit Soil Islands Palm Beach County, Florida*. 24th Annual SW FL Water Res. Conf., Ft Myers, FL
- Beckford, C., & **Thornton, T.** 2015. *Effects of Natural and Anthropogenic Contaminants on Unregulated Private Wells in South Florida 2012-2014*. Annual SW FL Water Res. Conf., Ft Myers, FL
- Fisher, D., Beckford, C., & **Thornton, T.** 2015. *Beach Erosion Analysis through Digitization of Historic Photos into a Geographic Information System (GIS) Program Ft. Lauderdale, FL 2001-2015*. 24th Annual SW FL Water Res. Conf., Ft Myers, FL
- Clement, B. & **Thornton, T.**, 2015. *How Much are Residents Willing to Pay to Protect Their Water Supply?: An Economic Evaluation of The Grassy Waters Nature Preserve*. 24th Annual SW FL Water Res. Conf., Ft Myers, FL.
- Slaight, K., and Thornton, T. 2014. *A Re-evaluation of DDT and DDE Residues in the Arthur R Marshall Loxahatchee National Wildlife Refuge Post-Farm Waste Water Flooding*. 50th Annual AWRA Conf., Tysons Corner, VA
- Bergonzoli I., and **Thornton, T.** 2014. *Compromised Drinking Water As A Result Of Private Well Homeowner Behavior*. 23rd Annual SW FL Water Res. Conf., Fort Myers, FL
- Silvestrini, J., and **Thornton, T.** 2014. *Algal Strain Coelastrum 108-5 as Wastewater Treatment*. 23rd Annual SW FL Water Res. Conf., Fort Myers, FL
- Slaight, K., and **Thornton, T.** 2014. *DDT & DDE Residues in the Arthur R. Marshall Loxahatchee National Wildlife Refuge Post Farm Wastewater Flooding*. 23rd Annual SW FL Water Res. Conference, Fort Myers, FL
- Hutton, D., Beckford, C., and **Thornton, T.** 2014. *Effects of Natural and Anthropogenic Contaminants on Unregulated Private Wells in South Florida*. 23rd Annual SW FL Water Res. Conf., Fort Myers, FL
- Ridgeway, M., and **Thornton, T.** 2014. *Glyphosate in the Cypress Swamp of A.R.M. Loxahatchee National Wildlife Refuge*. 23rd Annual SW FL Water Res. Conf., Fort Myers, FL
- Romstadt, L. and **Thornton, T.** 2014. *Endocrine Disruptors (BPA) in Saliva as an Indicator of Autistic-Like Social Behaviors*. Life Sciences South Florida: STEM Research Symposium. Florida International University, Miami, FL

- Stevens, K. and **Thornton, T.** 2014. *Evaluating the Efficacy of Treatments for Social Anxiety Disorder: A Patient's Reflective Review of Pharmaceutical, Therapeutic, and Mixed-Method Options.* Life Sciences South Florida: STEM Research Symposium. Florida International University, Miami, FL
- Bergonzoli I., and **Thornton, T.** 2013. *Cancer Causing By-Products Found In Drinking Water As A Result Of Private Well Homeowner Behavior.* The Groundwater Foundation National Conf., Orlando, FL
- Beckford, C., Hutton, D., and **Thornton, T.** 2013. *School-Centered, Community Based Research Investigating Private Wells, Groundwater Quality, and Public Education.* The Groundwater Foundation Nat. Conf., Orlando, FL
- Bergonzoli I., and **Thornton, T.** 2013. *Contaminants In Drinking Water As A Result Of Private Well Homeowner Behavior.* AWRA Annual Conf., Portland OR
- Silvestrini, J. and **Thornton, T.** 2013. *Manipulation of Coelastrum 108-5 Growth Rates Through pH Regulation by CO₂ Injection for Use in a Multitiered CO₂ Sequestration Wastewater Treatment System.* AWRA Annual Conf., Portland OR
- Long, M. and **Thornton, T.** 2013. *The Economic Dilemma of Sea Level Rise: Who is Financially Responsible?* Sea Level Rise Summit, Boca Raton, FL (by request) & the Sea Level Rise Symp., West Palm Beach, FL
- Beckford C., Hutton, D., And **Thornton, T.** 2013. *Effects of Natural And Anthropogenic Contaminants On Unregulated Private Wells In South Florida: How Will Sea Level Rise Affect Drinking Waters.* Sea Level Rise Symposium, West Palm Beach, FL
- Bergonzoli, I., and **Thornton, T.** 2013. *Community-Based Monitoring of Private Well Filtration Systems as Environmental Research.* SW FL Water Res. Assoc. Annual Conf., Ft. Meyers, FL
- Silvestrini, J. and **Thornton, T.** 2013. *Managing Native Algae Coelastrum (Col.) 108-5 to Filter Wastewater and Develop Biofuel Feedstock.* SW FL Water Res. Conf., Ft. Meyers, FL
- Bergonzoli, I., and **Thornton, T.** 2012. *Community-Based Private Well Monitoring as Secondary Level Environmental Education Research.* AWRA Annual Conf., Jacksonville, FL

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