

YILIN ZHUANG, Ph.D.

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AREAS OF SPECIALIZATION

- 10+ years' experience of integrated water resources management and environmental impact assessment
- Extensive hands-on experience of public education and community outreach
- Excellent analytical, communication, and presentation skills
- Superior systems thinking with great attention to details

TECHNICAL SKILLS

- ArcGIS® Mapping and Spatial Analysis Software
- BASIN Hydrological Simulation Software
- GaBi® & SimaPro® Life Cycle Analysis Software
- SPSS and SAS Statistics Software
- Vensim® System Dynamics Software

EDUCATION

Ph.D.	Civil Engineering, University of South Florida	2014
M.S.	Environmental Engineering, Tongji University	2009
B.S.	Environmental Science, Tongji University	2007

PROFESSIONAL LICENSING

- LEED® AP BD + C (LEED Accredited Professional with A Building Design + Construction Specialty)
- Florida Water StarSM Certifier

SELECTED AWARDS AND HONORS

- 2017 Extension Professional Associations of Florida (EPAF) Marshall and Mildred Watkins Professional Improvement Award
- Best Abstract Award of the 2017 UF/IFAS Extension Central District Symposium
- 2012 University of South Florida Graduate Students Challenge Grant
- Best Poster Award of the 2011 Association of Environmental Engineering and Science Professors (AEESP) Education & Research Conference
- 2007 Tongji University Undergraduate Honor

PROFESSIONAL EXPERIENCE

Regional Specialized Agent, Water Resources

- University of Florida, Institute of Food and Agricultural Sciences Extension, Central District (February 2020-Present)
 - Enhancing water quality, water quantity, and water supply in Central Florida.

Extension Agent, Community Resource Efficiency

- University of Florida, Institute of Food and Agricultural Sciences Extension, Marion County (2014 - February 2020)

Major Accomplishments and Responsibilities – Comprehensive Planning

- Involved in projects and plans include Rainbow Springs and Silver Springs Basin Management Action Plans (BMAPs), Marion County Comprehensive Water Education Plan, Marion County Comprehensive Plan, Marion County Water Supply Plan, and Nutrient Total Maximum Daily Load (TMDL) for Lake Weir.

Major Accomplishments and Responsibilities – Outreach

- Lead/co-lead water quality and quantity outreach project grants of \$20,000+ and in-kind contributions of \$50,000+;
- Initiate well water and septic system educational program;
- Develop and conduct water educational programs for public officials, K-12 youth and science teachers, environmental engineers, and builders;
- Collect and analyze springs samples for microplastics and train volunteers for the Florida Microplastic Awareness Project;
- Provide leadership, delivery, and administrative support for Florida Extension Roadmap Water Initiative, Marion County Water Coordination Team, and Florida Springs Fest;
- Perform Florida Water StarSM home inspections.

Major Accomplishment and Responsibilities –Teaching

- UF/IFAS Summer Intern Mentor;
- Invited Lecturer at College of Central Florida, Environmental Science Seminar (undergraduate level, 2 credits).

Research Assistant

- University of South Florida, Department of Civil and Environmental Engineering (2009-2013)
 - Developed system dynamics simulation models to investigate the impacts of integrated water and energy management options;
 - Led a multidisciplinary research team majoring in Electric Engineering, Statistics, Business, and Communication and received \$5,000 graduate student research grant from 100+ applicants;

- Presented the research results in 10+ international and national conferences;
- Mentored undergraduate researcher on hydrological modeling and technical writing.
- Tongji University, College of Environmental Science and Engineering (2005-2009)
 - Developed sustainability assessment indicator systems for ecological island, petrochemical and chemical industrial parks;
 - Evaluated environmental impacts of shipping service center and highways.

Teaching Assistant

- University of South Florida, Department of Civil and Environmental Engineering (2013)
 - Greening Engineering (graduate level, 3 credits) and Statics (undergraduate level, 3 credits).
- Tongji University, College of Environmental Science and Engineering (2008)
 - Ecological Economics (undergraduate level, 2 credits) and Environmental Impact Assessment (undergraduate level, 3 credits).

Assistant Conference Coordinator

- United Nation Environment Programme (UNEP) -Tongji, Institute of Environment for Sustainable Development (2003-2007)
 - Organized logistics of national and international conferences and workshops;
 - Designed conference posters and flyers.

SELECTED PUBLICATIONS

- **Zhuang, Y., & LeCroy, J.** (2016). Solving Water Issues through Community Outreach. *The Proceedings of 2016 International Low Impact Development Conference*, Beijing, China, June 26-29, 2016.
- **Zhuang, Y., & Zhang, Q.** (2015). Exploring Water-Energy Nexus towards Integrated Water and Energy Management. *The Proceedings of the 33rd International Conference of the System Dynamics Society*, Cambridge, Massachusetts, U.S., July 19-23, 2015.
- **Zhuang, Y., & Zhang, Q.** (2015). Evaluating Municipal Water Management Options with the Incorporation of Water Quality and Energy Consumption. *Water Resources Management*, 29 (1): 35-61.
- **Zhuang, Y., & Zhang, Q.** (2013). Integrated Water Resources Management Incorporating Water Quality, Energy Consumption and Ecological Requirement. *The Proceedings of the 31st International Conference of the System Dynamics Society*, Cambridge, Massachusetts, U.S., July 21-25, 2013.

- **Zhuang, Y.**, Yang, H., Guo, R., Zeng, G., & Ma, X. (2009). Environmental Indicator System for the Construction of Eco-Island – A Case Study of Chongming Island. *Resources and Environment in the Yangtze Basin*, 18 (10): 937-942.
- **Zhuang, Y.**, Yang, H., Bao, C., & Guo, R. (2009). Study on PEIA Index System for Industrial Parks of Chemistry and Petrochemistry. *Sichuan Environment*, 28 (5): 99-103.
- Guo, R., Yang, H., **Zhuang, Y.**, & Zeng, G. (2010). Threshold Analyses on Water Related Indicators for the Construction of Chongming Eco-Island. *Resources and Environment in the Yangtze Basin*, 19: 207.
- Sun, S., **Zhuang, Y.**, Chen, F., & Bao, C. (2007). Study on the Indicator System of PEIA for Chemical Industrial Park. *Sichuan Environment*, 25 (5): 65-69.

SELECTED PRESENTATIONS

- **Zhuang, Y.** (2019). Is Your Well Water Well? *2019 Extension Professional Associations of Florida Conference*, Fort Myers, Florida, U.S., August 26-29, 2019.
- Albertin, A. & **Zhuang, Y.** (2019). Private Wells and Emergency Response in Florida. *2nd National Private Well Conference*, Harrisburg, Pennsylvania, U.S., May 21-23, 2019.
- **Zhuang, Y.** & Van Horn, H. (2018). Opportunities and Challenges of Incorporating Citizen Science into Microplastics. *47th Annual 2018 North American Association for Environmental Education (NAAEE) Conference*, Spokane, Washington, U.S., October 10-13, 2018.
- **Zhuang, Y.** (2017) Enhancing Water Education through University and School District Partnership. *The 6th Annual STEM Expo & Forum*, Orlando, Florida, U.S., July 12-14, 2017.
- **Zhuang, Y.** & LeCroy, J. (2016) Solving Water Issues through Community Outreach. *2016 International Low Impact Development Conference*, Beijing, China, June 26-29, 2016.
- Barber, L.A., Borisova, T., Carnevale, S., Jarvis, B.J., Martinez, C., Seals, L.M., & **Zhuang, Y.** (2016) Overcoming Barriers to Statewide Extension Program Implementation: Florida's Water Schools for Decision Makers. *Building a Path to Resiliency*, Burlington, VT, U.S., June 26-29, 2016.
- **Zhuang Y.**, LeCroy, J., Stewart, A., & Lester, W. (2016). Engaging Youth in Agriculture through STEM Activities. *The 5th Annual STEM Forum & Expo*, Denver, CO, U.S., July 27 - 29, 2016.

- **Zhuang, Y., & Zhang, Q. (2015).** Exploring Water-Energy Nexus towards Integrated Water and Energy Management. *The 33rd International Conference of the System Dynamics Society*, Cambridge, MA, U.S., July 19 - 23, 2015.
- **Zhuang, Y., & Zhang, Q. (2013).** Integrated Water Resources Management Incorporating Water Quality, Energy Consumption and Ecological Requirement. *The 31st International Conference of the System Dynamics Society*, Cambridge, MA, U.S., July 21 -25, 2013.
- **Zhuang, Y., & Zhang, Q. (2013).** Municipal Water Management with Consideration of Water Quality and Energy Consumption. *The 2013 Association of Environmental Engineering and Science Professors (AEESP) 50th Anniversary Conference: Environmental Engineers and Scientists of 2050: Education, Research, and Practice*, Golden, CO, U.S., July 14 - 16, 2013.
- **Zhuang, Y., Zhang, Q., & Yin, H. (2012).** A System Dynamics Approach to Water and Energy Resources Management in Hillsborough County. *The 3rd UF Water Institute Symposium*, University of Florida, Gainesville, Florida, February 15-16, 2012.
- **Zhuang, Y., & Zhang, Q. (2011).** A System Dynamics Simulation Model for Integrated Water Resources Management. *The 2011 Association of Environmental Engineering and Science Professors (AEESP) Education & Research Conference*, Tampa, FL. U.S., July 10-12, 2011.
- **Zhuang, Y., Yang, H., & Guo, R. (2008)** Indicator System of Chongming Eco-island. *Sustainability of Chongming Island Forum*, Shanghai, China, August 22, 2008.
- **Zhuang, Y., & Cao, X. (2007).** A Brief Review of CDM. *Tongji-HSBC Leadership Program: Energy, Environment*, Shanghai, China, December 20, 2007.

PROFESSIONAL AFFILIATIONS AND SERVICE

- U.S. Green Building Council (Member)
- American Water Resources Association (Member)
- National Association of National Resource Extension Professionals (Member)
- Florida Association of Natural Resources Extension Professionals (Member)
- Florida Springs Fest (Planning Committee)

UNIVERSITY GOVERNANCE AND SERVICE

- Florida Extension Initiative II: Enhancing and Protecting Water Quality, Quantity, and Supply, Priority Work Group 3: Public Awareness of Water Issues (Curriculum Development Committee Member and Secretary)