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1. POST SECONDARY EDUCATION

2003 **Ph.D.** in Environmental Engineering (EnvE), Department of Civil Engineering, University of British Columbia, Vancouver, BC, Canada
1993 **Master of Applied Science** in EnvE, University of British Columbia, Canada
1989 **Master of Engineering** in EnvE, Tsinghua University, China
1986 **Bachelor of Engineering** in EnvE, Tsinghua University, China

2. PROFESSIONAL CERTIFICATION and LICENSURE

2018-current **Program Evaluator (PEV) and Engineering Accreditation Council (EAC) Commissioner** (since 2026) for [ABET](#) Environmental Engineering programs
2017-current **Fellow (F.EWRI)**, [Environmental and Water Resources Institute](#) (EWRI) of *American Society of Civil Engineers* (ASCE)
2004-current **Board Certified Environmental Engineer (BCEE)**, [AAEES](#)
1995-current **Professional Engineer (P.E.)** in Civil Engineering, State of Washington, USA

3. EMPLOYMENT HISTORY

2002-current **Professor** (2014-current), **Associate Professor** (2008-2014), **Assistant Professor** (2002-2008), Department of Civil Engineering, SIUE
2008-current **Department Chair** (Jan. 2012-Aug. 2016. Since July 2026), **Graduate Program Director** (Aug. 2008-Dec. 2011), Department of Civil Engineering, SIUE
1998-2002 **Graduate Research Assistant**, University of British Columbia, Canada
1994-1999 **Project Engineer (Environmental Engineer)**, Dayton & Knight Ltd., BC, Canada
1991-1994 **Environmental Engineer**, Stantec Consulting Ltd., BC and SK, Canada

4. AWARDS and FELLOWSHIP

2026 [ASCE Region 7](#), *Professional Progress Award*
2025-26 [Japan Society for the Promotion of Science](#) *JSPS Invitational Fellowship*, to Japan
2025 [ASCE St. Louis Section](#), *Professional Recognition Award*
2025 *ASCE Journal of Sustainable Water in the Built Environment*, **Best Case Study award** (for a journal paper)
2025 *Water Environment Research*, **Wiley Publication Top Cited Article award** (for a journal paper)
2023, 21, 07 **Outstanding Teacher Award**, Department of Civil Engineering, SIUE
2020 **Outstanding Service Award**, School of Engineering, SIUE
2016-17 [Fulbright US Scholar](#) Award, US Department of State, to Brazil and Uruguay
2015 **Mevlana Program Visiting Professor Fellowship**, to Turkey

Awards to mentored and advised students:

- Faculty advisor of graduate research: 2022 Intelligent Water Systems (IWS) Student Research Competition 2nd Place; 2013 Best Technical Presentation Award, IL Water Env. Association

- Faculty advisor, 2012 PB-EWRI national student design competition, 3rd Place Award; 2009 PB-EWRI national student design competition, 1st Place Award (ASCE-EWRI national award to SIUE Civil Engineering undergraduate students)
- Faculty advisor, 2005 SIUE Outstanding Thesis Award to M.S. graduate student
- Faculty advisor: two Co-Op Ph.D. (currently one a full professor of environmental engineering, one in consulting engineering firm in US), one US Fulbright International MS student

5. PUBLICATIONS – selected examples (^sadvised student)

- 1) Davidson, C. I., Hardin, R. D., Powers, S. E., Zhang, Q., **Zhou, J.**, (2025), Enhancing the Sustainability Content of Courses in Environmental Engineering: Reports of Workshops at the 2022 St. Louis and the 2023 Boston AEESP Conferences, *Environmental Engineering Science* (journal), in-press
- 2) Xu, Y., Wang, Z., Nairat^s, S., **Zhou, J.**, He, Z., (2024), Artificial Intelligence-Assisted Prediction of Effluent Phosphorus in a Full-Scale Wastewater Treatment Plant with Missing Phosphorus Input and Removal Data, *ACS Environmental Science & Technology Water*, 10
- 3) Alyaseri^s, I., **Zhou, J.**, Bloorchian-Verschuy^s, A., Morgan, S. M., (2023), Impact of Green Infrastructures for Stormwater Volume Reduction in Combined Sewers: A Statistical Approach for Handling Field Data from Paired Sites Containing Rain Gardens and Planter Boxes, *ASCE Journal of Sustainable Water in the Built Environment*, 9 (3). **Award paper**
- 4) Sun, J., Xu, Y., Nairat^s, S., **Zhou, J.**, He, Z., (2023), Prediction of Biogas Production in Anaerobic Digestion of a Full-Scale Wastewater Treatment Plant Using Ensembled Machine Learning Models, *Water Environment Research*, 95 (6). **Award paper**
- 5) **Zhou, J.**, Akhavan Bloorchian^s, A., Nassiri^s, S., Osouli, A. (2021). A Simplified Model for Predicting the Effectiveness of Bioswale's Control on Stormwater Runoff from Roadways *Water*, 13 (20), 2798
- 6) Zhang, L., Song, Y., Zhang, J., **Zhou, J.**, Tong, Z. (2020). Mathematical Modeling and Application of Aperture Type of Collimated Beam Apparatus for Fluence Measurement and Radiometer Calibration. *ASCE Journal of Environmental Engineering*, 146 (12)
- 7) Al-Yaseri^s, I., **Zhou, J.** (2019). Handling Uncertainties Inherited in Life Cycle Inventory and Life Cycle Impact Assessment Method for Improved Life Cycle Assessment of Wastewater Sludge Treatment. *Heliyon*, 5 (11), Elsevier
- 8) Al-Yaseri^s, I., **Zhou, J.**, Morgan, S., Bartlett, A. (2017) Initial Impacts of Rain Gardens' Application on Water Quality and Quantity in Combined Sewer: Field-scale Experiment, *Frontiers of Environmental Science & Engineering*, 11 (4): 19
- 9) Al-Yaseri^s, I., **Zhou, J.** (2017) Towards Better Environmental Performance of Wastewater Sludge Treatment Using Endpoint Approach in LCA Methodology, *Heliyon*, 3 (3), Elsevier
- 10) Al-Yaseri^s, I., **Zhou, J.** (2016) Stormwater Volume Reduction in Combined Sewer Using Permeable Pavement: City of St. Louis, *ASCE Journal of Environmental Engineering*, 142 (4)

Technical Reports

- Osouli, A., Grinter, M., **Zhou, J.**, Ahiablame, L., Stark, T. (2017) *FHWA-ICT-17-011 Effective Post-Construction Best Management Practices (BMPs) to Infiltrate and Retain Stormwater Runoff*. Published by the Illinois Center for Transportation/Illinois Department of Transportation, and the U.S. Department of Transportation/Federal Highway Administration
- **Zhou, J.**, Morgan, S. (2015) *Community Rooted Green Infrastructure for Urban Water Improvements*. Technical Final Report to United State Environmental Protection Agency

- **Zhou, J.**, Morgan, S., Alyaseri, I. (2015) *Impact of South Grand Rain Gardens in St. Louis on Water Quality and Volume Reduction of Storm Runoff*. Technical Final Report to East-West Gateway Council of Governments for Missouri Department of Natural Resources
- **Zhou, J.**, Alyaseri, I. (2014) *City of St. Louis Permeable Pavement Green Alley Study on Stormwater Volume Reduction Analysis*. Technical Final Report to the City of St. Louis for Missouri Department of Conservation
- Morgan, S., **Zhou, J.** (2009) *Developing the Basis for Creating Environmental Networking Organizations in Downstate Illinois*. Technical Final Report to Illinois Sustainable Technology Center (formerly Illinois Waste Management and Research Center)

Workshop presentations – selected examples

- **Zhou, J.** (2023), workshop speaker “Incorporating the Framework and Concepts of Sustainability in the Teaching and Learning”, 2023 AEESP Research and Education Conference, June 20-23, Boston, MA
- **Zhou, J.** et al. (2022) workshop speaker “Teaching Sustainability at the Pre-College, Undergraduate, and Graduate Levels: Incorporating Research Findings” 2022 AEESP Research and Education Conference, June 28-30, St. Louis. MO

6. CONSULTING ENGINEERING EXPERIENCE

2009-current International Consultant

A range of environmental, water management, and higher education projects funded by international financial institutions. Selected examples:

- **Zhou, J.** (2024). *One Water - an Integrated and Adaptive Approach for Rural Wastewater Management in PRC*. Asian Development Bank
- **Zhou, J.**, Yang, Y.P. (2020). *Urban First Flush Stormwater Pollution Management, Innovative Designs for Small and Medium- Sized Cities*. Cities Development Initiative for Asia

1994-1999 Project Engineer (Environmental Engineer), Dayton & Knight Ltd. Canada

Design and Construction Management of Wastewater Treatment Plants; Sanitary Sewer Modelling, Analysis and Studies; Design and Construction Management; Pump Stations; Water Supply System Modelling, Analysis and Studies

1991-1994 Environmental Engineer, Stantec Consulting Ltd. Canada

Wastewater Collection and Treatment; Water Supply and Treatment; Municipal Projects

7. SERVICE TO PROFESSIONAL SOCIETIES – selected examples

ASCE-EWRI National: EWRI Governing Board member (2023-2025).

- EWRI Technical Coordination Executive Committee (Tech ExCom). Past Chair (2025-current), Chair (2023-2025), Vice-Chair/Secretary (2021-2023);
- Water, Wastewater & Stormwater Council: Representative to the Tech ExCom (2016-2018), Past Chair (2014-2016), Council Chair (2012-2014), Secretary (2010-2012);
- International Council International Participation Committee: Past Chair (2020-2022), Chair (2018-2020), Vice-Chair (2016-2018).
- International Linkage Task Committee: Founding Chair (2019-2021).

ASCE-EWRI St. Louis Chapter: Past Chair (2021-2023), Chapter Chair (2019-2021), Vice-Chair (2017-2019), Secretary and Treasurer (2016-2017).

U.S. Stockholm Junior Water Prize national competition: national judge (2025, 2011)