

Michael Schramm

1001 Holleman Dr. E. | 2118 TAMU | College Station, TX 77840-2118

✉ michael.schramm@ag.tamu.edu ☎ 910-232-3760 📄 0000-0003-1876-6592

Research Experience

TEXAS A&M AGRI LIFE RESEARCH

MAY 2016 - CURRENT

Texas Water Resources Institute

Research Specialist IV (Sept. 2023 - current); Research Specialist III (Aug. 2019 - Aug. 2023); Research Associate (May 2016 - Aug. 2019)

Lead and collaborate on watershed management and water quality assessment projects. Develop internal and external facing open-source tools for watershed planning, data analysis, and data sharing. Provide data science and statistical support for senior PIs and graduate students.

OAK RIDGE NATIONAL LABORATORY/

OAK RIDGE ASSOCIATED UNIVERSITIES

FEB. 2014 - FEB. 2016

Environmental Sciences Division

Research Associate (Feb. 2014 - Feb. 2016)

Collaborated on projects focused on improving the understanding of environmental impacts and mitigation of hydropower technologies. Work included database development, statistical analysis, experiments, and publication.

UNIVERSITY OF DELAWARE

SEPT. 2012 - JUNE 2013

Center for Energy and Environmental Policy

Graduate Research Assistant (Sept. 2012 - June 2013)

Provided research, data analysis, and conducted interviews for environmental policy analysis reports commissioned by the Delaware General Assembly. Policy analysis work focused on green infrastructure promotion and revitalization of brownfield sites.

Synergistic Activities

Ongoing Watershed Protection Planning and Total Maximum Daily Load development with state agencies (TCEQ, TSSWCB) that lead to stakeholder engagement, workshops, and implementation of best management practices to reduce nonpoint source pollutant loading to waterbodies.

Education

2011 - 2013

Master of Energy and Environmental Policy

University of Delaware

Newark, DE

2010 - 2011

University of North Carolina - Wilmington

B.A. Environmental Studies

Wilmington, NC

1999 - 2004

B.S. Biology

University of North Carolina - Wilmington

Wilmington, NC

Research Area

I work at the intersection of environmental science and policy by facilitating water quality planning efforts with state agencies and local stakeholders. I provide expertise in water quality modeling and assessment through the use of GIS and open source programming tools. My primary interest revolves around water policy and the evaluation of implementation effectiveness. I'm especially interested in leveraging open data and open source analytic tools to develop toolkits and resources for evaluating the environmental outcomes of policy implementation.

Grants Received

2024 - 2027 *Matagorda Bay Mitigation Trust*: Assessment of PFAS concentrations and loadings in the Lavaca Bay watershed. Role: PI. Amount: \$477,186.

2024 - 2027 *Section 319 Nonpoint Source Grant*: Sandy Creek Watershed Monitoring and Characterization. Role: PI. Amount: \$400,646.

2022 - 2024 *Texas State Soil and Water Conservation Board*: Regional Agricultural BMP Planning Database. Role: PI. Amount: \$87,016.

2021 - 2023 *Texas General Land Office Coastal Management Program*: Texas Coastal Nutrient Input Repository; Role: PI. Amount: \$63,969.

Refereed Publications (prior 4-years)

Schramm, M. P., Kikoyo, D., Wright, J., & Jain, S. (2024). A meta-analysis of the impacts of best management practices on nonpoint source pollutant concentration. *Frontiers in Water*, 6(1397615). <https://doi.org/10.3389/frwa.2024.1397615>

Berthold, T. A., McCrary, A., deVilleneuve, S., & Schramm, M. (2023). Let's talk about PFAS: Inconsistent public awareness about PFAS and its sources in the United States. *PLoS ONE*, 18(11), e0294134. <https://doi.org/10.1371/journal.pone.0294134>

Schramm, M. (2023). Assessing linkages between watershed nutrient loading and water quality in a subtropical estuary with generalized additive models. *PeerJ*. <https://doi.org/10.7717/peerj.16073>

Schramm, M., Gitter, A., & Gregory, L. (2022). Total Maximum Daily Loads and *Escherichia coli* trends in Texas freshwater streams. *Journal of Contemporary Water Research & Education*, 176, 36–49.

<https://doi.org/10.1111/j.1936-704X.2022.3374.x>

Berthold, T. A., Olsovsky, T., & Schramm, M. P. (2021). Direct mailing education campaign impacts on the adoption of grazing management practices. *Journal of Contemporary Water Research & Education*, 17(4), 45–60. <https://doi.org/10.1111/j.1936-704X.2021.3360.x>

Schramm, M. P. (2021). Estimating statistical power for detecting long term trends in surface water *Escherichia coli* concentrations. *Texas Water Journal*, 12(1), 140–150. <https://doi.org/10.21423/twj.v12i1.7126>