

Michael Schramm

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As a research professional providing expertise in water science, policy, and regulation, I leverage statistical and geospatial analysis to bridge the gaps between science and stakeholders. I invest my time in developing open source data tools and methods to ensure transparency and reproducibility in the work I communicate to the public. Since 2016, I have authored nine papers or reports on water resources topics.

Skills

Communication: academic writing, extension and outreach programs, stakeholder facilitation, technical and non-technical reports

Programmatic: grant writing, project management, proposal development

Programming and Applications: ArcGIS, Excel, git (limited), R, Python

Water Management and Hydrologic Science: statistical methods for water quality, TMDL development, water quality policy and regulations, watershed planning

Employment

Texas Water Resources Institute, Texas A&M AgriLife Research

College Station, TX

RESEARCH SPECIALIST III

2019

- Collaborate with researchers to design, plan, conduct, and coordinate water focused research projects.
- Facilitate stakeholder engagement to inform research priorities that address local research needs.
- Supervise undergraduate and/or graduate students and other technical or field staff involved in research.
- Represent TWRI at local, national, and international meetings to disseminate research findings and network with peers in the field.
- Prepare and write proposals to funding agencies; maintain financial accounts related to research projects.

Texas Water Resources Institute, Texas A&M AgriLife Research

College Station, TX

RESEARCH ASSOCIATE

2016 - 2019

- Provide technical support and stakeholder facilitation of watershed planning, TMDL, and I-Plan projects in collaboration with state water resource agencies.
- Develop, evaluate, and apply research and statistical methods for water resources planning.
- Collaborated with state agencies and local stakeholders to publish watershed protection plans, TMDLs, Implementation Plans, and technical reports assessing indicator bacteria pollutant loads.
- Worked with Institute scientists and other entities to secure seven projects and \$1.3 million in research and water quality improvement funding.

Oak Ridge National Laboratory/Oak Ridge Associated Universities

Oak Ridge, TN

RESEARCH ASSOCIATE

2014-2016

- Develop relational database and methods to assess environmental mitigation at U.S. hydropower facilities.
- Utilize statistical and geospatial methods to analyze data.
- Published three peer-reviewed journal articles, two technical reports, and one conference presentation on research findings related to mitigating environmental impacts of hydropower facilities.

Center for Energy and Environmental Policy, University of Delaware

Newark, DE

GRADUATE RESEARCH ASSISTANT

2013-2014

- Responsible for interviews, data analysis, and developing policy recommendations in two policy analysis reports delivered to the state General Assembly.

Education

University of Delaware

Newark, DE

MASTER OF ENERGY AND ENVIRONMENTAL POLICY

2013

University of North Carolina - Wilmington

Wilmington, NC

B.A. ENVIRONMENTAL STUDIES

2011

University of North Carolina - Wilmington

Wilmington, NC

B.S. BIOLOGY

2004

Selected Publications

1. Cutting, RH, LB Cahoon, JF Flood, L Horton, and M Schramm (2011). Spill the Beans: GoodGuide, Walmart and EPA Use Information as Efficient, Market-Based Environmental Regulation. *Tulane Environmental Law Journal* **24**(291), 45.
2. Pracheil, BM, CR DeRolph, MP Schramm, and MS Bevelhimer (June 2016). A Fish-Eye View of Riverine Hydropower Systems: The Current Understanding of the Biological Response to Turbine Passage. *Reviews in Fish Biology and Fisheries* **26**(2), 153–167.
3. Schramm, MP, MS Bevelhimer, and CR DeRolph (July 2016). A Synthesis of Environmental and Recreational Mitigation Requirements at Hydropower Projects in the United States. *Environmental Science & Policy* **61**, 87–96.
4. DeRolph, CR, MP Schramm, and MS Bevelhimer (Oct. 2016). Predicting Environmental Mitigation Requirements for Hydropower Projects through the Integration of Biophysical and Socio-Political Geographies. *Science of The Total Environment* **566-567**, 888–918.
5. Schramm, MP, M Bevelhimer, and C Scherelis (June 2017). Effects of Hydrokinetic Turbine Sound on the Behavior of Four Species of Fish within an Experimental Mesocosm. *Fisheries Research* **190**, 1–14.

Software (R)

1. Michael, S (2019). *dartx: Applies Drainage Area Ratio Method With Correction Factors*. Version 0.1.0. <https://github.com/mps9506/dartx>.
2. Schramm, M (2019). *echor: Access EPA 'ECHO' Data*. Version 0.1.3. <https://CRAN.R-project.org/package=echor>.
3. Schramm, M and F Harrell (2019). *tbrf: Time-Based Rolling Functions*. Version 0.1.3. <https://CRAN.R-project.org/package=tbrf>.
4. Schramm, M (2019). *wd4tx: Access 'TWDB' Water Data For Texas*. Version 0.0.0.9000. <https://github.com/mps9506/wd4tx>.