

Eric Moore

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PROFESSIONAL SUMMARY

Dedicated hydrogeologist with five years of experience in hydrologic research. Demonstrated expertise in hydrologic monitoring installation, advanced sensor technologies, data processing and geographic information systems. Familiarity with local, state, and federal agencies, laboratory chemical analysis, and hydrologic modeling.

EDUCATION

2014 B.S. Geology, Indiana University, Bloomington, Indiana

AREAS OF SPECIALIZATION

- Hydrology – surface water, groundwater, terrestrial
- Structural Geology – mapping and interpretation
- Sensor Technology – Campbell Scientific, YSI, Telemetry
- Fieldwork – installation, maintenance, data collection, sampling of monitoring stations
- GIS/GNSS – ArcGIS, total station surveying
- Data processing – collection, reduction, analysis, QA/QC, figure creation
- Proficient in ArcGIS, R, Python, Campbell Scientific, Adobe, and Microsoft software

PROFESSIONAL EXPERIENCE

2019 - Present Ph.D. Candidate, Natural Resources and Environment, University of Connecticut

2015 - 2018 Associate in Research, Nicholas School of Environment, Duke University

2012 - 2015 Lead Hydrologic Field Technician, Center for Geospatial Data Analysis, Indiana Geological Survey

Summer 2014 Associate Instructor, Environmental Geology, Indiana University Geologic Field Station, Cardwell, MT

2009 - 2012 Lifeguard Crew Leader, Plainfield Parks and Recreation, Plainfield, IN

RELATED EXPERIENCE AND PROJECTS

Mountain Top Mining Effects on Watershed Hydrology and Biogeochemistry, Duke University (10/2015 – Present); Brian McGlynn

- Twenty hydrologic monitoring sites in streams draining reclaimed mine land to understand mining effects on hydrologic, chemical, and landscape change.
- Data collection and analysis, site maintenance and installation, laboratory chemical analysis (IC, GC, ICPMS)

NSF Macrosystems Biology: Defining Stream Biomes, Duke University (10/2015 – Present); Emily Bernhardt

- Installation of intensive stream monitoring sites across the country to understand in-stream primary productivity and ecosystem respiration on spatial and temporal scales
- Data collection and analysis, site installation and maintenance, solute and gas experimentation, hydrologic and geomorphological characterization, laboratory chemical analysis (IC, GC, MIMS, Latchat)
- Database management and website design
- <http://pulseofstreams.weebly.com/>

Aquifer Sensitivity, Indiana Department of Environmental Management, Indiana Geological Survey (5/2014-7/2015); Sally Letsinger

- Installation of two critical zone monitoring stations for an edge-of-field study to model aquifer recharge and soil moisture on the School Branch Watershed in Indianapolis, IN.
- Instrumentation, collection, real-time hosting, and analysis of hydrogeological data.

Indiana Water Balance Network, Center for Geospatial Data Analysis, Indiana Geological Survey (11/2012-7/2015); Shawn Naylor

- Instrumentation, installation, maintenance, and data collection for a network of eleven monitoring stations
- Data reduction and real-time internet hosting, MatLab analysis of micrometeorological, soil, and groundwater data.
- Estimation of potential evapotranspiration and water budget, QA/QC of hydrogeological data.
- <http://igs.indiana.edu/CGDA/waterBalanceNetwork.cfm>

Acid Mine Drainage Reclamation, Indiana Department of Natural Resource (11/2012-3/2015); Greg Olyphant, Tracy Branam

- Surface and groundwater monitoring of flow through five coal mine drainage remediation sites in Indiana.
- Collection, reduction, and analysis of hydrologic data for model input, figures, and final reports

PRESENTATIONS

- *What's new with StreamPULSE?*, Poster, SFS 2018, Michigan
- *How mountaintop mining affects life and landscape of West Virginia*, PBS Newshour, Miles O'Brien, 2017
- *What can StreamPULSE do for you? Building the stream metabolism pipeline*, Poster, SFS 2017, North Carolina
- *Streams to sensors to scientists*, Poster, CUAHSI Conference 2016, West Virginia