

Phone: 662-681-5518 | Email: mmaguigan@gmail.com | LinkedIn: <https://www.linkedin.com/in/mike-maguigan>

Michael Maguigan | Shreveport, LA

Experience

Director | *Red River Watershed Management Institute* | Shreveport, LA August 2020 - Present

- Researches hydrology and GIS issues with federal and local agencies
- Conducts outreach with local K-12 schools
- Communicates research findings at international conferences

Professional in Residence | *LSUS* | Shreveport, LA August 2020 - Present

- Creates and delivers lessons in geology and environmental science
- Courses include: Intro. to Geology, Environmental Geology, Hydrogeology, Geomorphology

Science Contributor | *Study.com* | Remote 2021

- Create interesting, accessible long-form (1,000 words) articles on various science topics

Science Teacher | *Nettleton Junior High School* | Nettleton, MS August 2019 - July 2020

- Create and deliver lessons for 8th grade science (earth, life, and physical)
- Design assessments, projects, and laboratory experiments to optimize learning
- Build an inclusive and supportive classroom community for an optimal learning experience

Science Teacher | *Columbus High School* | Columbus, MS August 2018 - July 2019

- Create and deliver lessons for various science courses (biology, science literacy)
- Design assessments, projects, and laboratory experiments to optimize learning
- Build an inclusive and supportive classroom community for an optimal learning experience

Assistant Professor | *University of the Incarnate Word* | San Antonio, TX August 2016 - July 2018

- Create and deliver lessons for courses in environmental science, geology, and GIS
- Collaborate with state agencies, faculty, and students on research projects
- Communicate research findings at international conferences
- Serve on committees and as science fair judge to serve community

Postdoctoral Associate | *NSPARC* | Starkville, MS May 2015 - July 2016

- Engage with local and state agency subject matter experts to create plans and policies
- Collaborate with other employees on a variety of projects
- Use GIS to find answers to difficult questions

Education

Bachelor's of Art | Geography May 2010
Virginia Tech | Blacksburg, VA

Master's of Art | Geography May 2012
University of Arkansas | Fayetteville, AR

Doctor of Philosophy | Earth and Atmospheric Science
Mississippi State University | Starkville, MS

August 2015

Master's of Science | GIS Development
University of Wisconsin | Madison, WI

Anticipated Fall 2024

Publications

Bise, R.D., Rodgers, J.C., **Maguigan, M.A.**, Beaulieu, B.N., Meng, Q., Keith, W.J. and Maguigan, C.L. 2017. Sidewalks as measures of infrastructure inequities. *Southeastern Geographer*.

Maguigan, M., Rodgers, J., Dash, P., and Meng, Q. 2016. Assessing net primary production in montane wetlands from proximal, airborne, and satellite remote sensing platforms. *Advances in Remote Sensing*.

Maguigan, M., Dixon, J., and Brye, K. 2015. Controls on the formation of shallow landslides in the Boston Mountains of northwest Arkansas. *Physical Geography* 36: 426-447.

Presentations

Maguigan, M. Addressing Water Quality Reporting Issues. (Oral Presentation). Annual meeting of the Geological Society of America. October, 2021. Portland, Oregon.

Maguigan, M.A., Mulvey, G.J. A one-semester thesis: Problem to presentation in 15 weeks (Oral Presentation). Annual meeting of the Geological Society of America. October, 2017. Seattle, Washington.

Coley, A., Posadas, G., Huston, K., Hillesheim, C., Walker, R., and **Maguigan, M.** The impact of teacher science content knowledge on student achievement (Oral Presentation). Annual Meeting of the Association for Science Teacher Education. January, 2017. Des Moines, Iowa.

Maguigan M.A.. Comparison of surface and groundwater nutrient levels and impacts on net primary production in southern Appalachian fens (Oral Presentation). Annual meeting of the Geological Society of America. October, 2014. Vancouver, British Columbia, Canada.

Maguigan, M.A., Rodgers III, J.C., and Dyer J.L. Controls on primary productivity in southern Appalachian wetlands (Poster). Joint Aquatic Sciences Meeting, May 2014, Portland, OR.

Maguigan, M. Role of Vegetation and Environmental Characteristics on Slope Stability (Poster). Annual meeting of the Association of American Geographers, February 2012, New York, NY.

Bond, B., Hamner, P., Resler, L., and **Maguigan, M.** Advisor. 2010. Relationship of Mineral Stain in Red Oak to Growth Site Variables (Poster). Association of American Geographers, Annual Meeting, April 2010, Washington D.C.