SHELLBY J. MILLER

4443 Lyons Rd   Phone: (478) 955-4169
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GIS Analyst with four and a half years of experience working with ArcGIS Suite and ArcGIS Pro software for developing and maintaining geodatabases and performing spatial analyses. Highly organized individual with a passionate work ethic.

PROFESSIONAL EXPERIENCE

Senior Data & GIS Analyst   December 2021-Present
Atlanta Regional Commission

- Manages GIS needs of Natural Resources Group
- Performs research, collects, organizes, and analyzes data to meet programmatic needs of group
- Manages cooperative River-Lake Information Management System
- Organizes and facilitates meetings with stakeholder utilities in the Advanced Metering Infrastructure group
- Develops and maintains web-based interactive tools for Natural Resources Group
- Provides technical guidance to support users of web-based interactive tools

GIS Analyst   July 2020-Present
Middle Georgia Regional Commission

- Performed tax parcel maintenance and CUVA analysis for Tax Assessors
- Created and maintained hosted web layers, web maps, and web apps
- Created and edited versioned data on Spatial Database Engines
- Submitted Boundary Annexation Survey for local governments
- Refined road centerline data for NextGen911 and Roadway Element Validation and Mapping Program

Natural Resources GIS Intern & Program Assistant   2019-2020
Atlanta Regional Commission

Source Water Assessment Plan
- Performed spatial analyses in ArcGIS Pro to assign risk rankings to potential pollutant sources
- Developed a methodology for risk assessment of pollutants to surface water intakes
- Assisted in writing the updated 2020 Source Water Assessment Plan
- Coordinated and meet with local utilities to discuss their unique reports

Toilet Rebate Program
- Managed program data for a metro district wide rebate program
- Analyzed indoor water use data to determine efficiency measures
- Processed paperwork pertaining to rebate applications

Graduate Research & Teaching Assistant 2018-2019
Department of Geosciences, Georgia State University
- Conducted research on the efficiency of urban beaver dams to attenuate pollution introduced by effluent
- Instructed undergraduate students in an introductory course
- Assisted in redesigning of lab activities
- Graded lab assignments and quizzes

EDUCATION
Georgia State University December 2019
M.S., Geosciences GPA: 4.15
Concentration: Water Sciences
Professional Certificate, Geographical Information Science
        Advisor: Dr. Sarah Ledford

Georgia Institute of Technology 2016
B.S., Earth and Atmospheric Sciences
Focus in Environmental Science with Research Option in Climate Change
        Advisor: Dr. Kim Cobb

TECHNICAL SKILLS
ArcGIS Pro, ArcGIS Suite 10.x, Python, SQL Server, MATLAB, ERDAS IMAGINE, Microsoft Office Suite, Time Management, Communication and Public Speaking, Adaptability, Interpersonal Skills, Detailed Oriented

PRESENTATIONS
American Geophysical Union Fall Meeting Fall 2019
Poster Presentation
San Francisco, CA

Georgia Tech Undergraduate Research Symposium Spring 2015, 2016
Oral Presentation
Atlanta, GA

American Geophysical Union Fall Meeting Fall 2015
Poster Presentation
San Francisco, CA

PROFESSIONAL AFFILIATIONS
Georgia Geospatial Association Fall 2020-Present
Atlanta Region Geospatial Community Spring 2019-Present
500 Women Scientists, Member Fall 2016-Present
Geoscience Graduate Student Alliance, Co-President Fall 2018-2020
Geological Society of America, Member Fall 2018-2020
American Geophysical Union, Member Fall 2015-Present