

# Darby DeBruhl

GIS Analyst, Database Manager, Cartographer

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## EDUCATION

**University of South Carolina** , Columbia, SC— *Bachelor of Arts in Geography and History, concentration in GIS* 2017–2021.

## SKILLS

### Experience with:

- ❖ Esri's ArcGIS software ecosystem, including ArcGIS Pro, ArcMap, ArcGIS Online, Field Maps, Instant Apps, ArcGIS Hub, StoryMaps, Survey123, etc.
- ❖ QGIS 3.1
- ❖ Python, R
- ❖ Javascript (Leaflet), HTML, CSS
- ❖ Adept in Photoshop, Illustrator, and most other Adobe design software
- ❖ Presentation skills – have given multiple presentations alongside colleagues at the annual Digital Mapping Techniques conference. Posters available upon request.

## EXPERIENCE

**GIS Analyst, Database Manager, & Cartographer** —South Carolina Geological Survey —May 2021– current  
*South Carolina Department of Natural Resources | 5 Geology Rd., Columbia, SC 29212*

- ❖ Creates and manages GIS products, including geodatabases, shapefiles, metadata, and other ancillary documentation for geologic maps of South Carolina. Evaluates maps and data produced by others for cartographic quality and technical accuracy per SCGS mapping standards.
- ❖ Uses cartographic principles and GIS techniques to prepare geologic maps for publication and distribution as physical cartographic products with Adobe Illustrator.
- ❖ Sets up GIS projects for and provides technical assistance to geologists and other non-GIS staff.
- ❖ Responsible for exploring new technical possibilities for SCGS wherever they arise. Past examples include designing deep learning algorithms for the digitization of geologic features, devising enhancements for field workflows in various mapping environments, developing workflows for quality control and assurance, etc.
- ❖ Employs Python in miscellaneous geological applications; examples include the development and maintenance of SCGS's Earthquake Database, custom geoprocessing tools, automation of GIS-related tasks, etc.
- ❖ Responsible for creating figures and visuals to aid in analyzing and explaining spatial relationships and patterns.
- ❖ Responsible for distribution of GIS data to the public, for fulfilling printed map orders, and for managing and updating SCGS's website.
- ❖ Responsible for managing and assigning tasks to rotating teams of GIS student interns.
- ❖ Primary representative for SCGS in the USGS's Geologic Map Schema (GeMS) program; responsible for:
  - Creating and maintaining the ArcGIS Pro style implementation of the FGDC Digital Cartographic Standard for Geologic Map Symbolization (5,000+ individual symbols).
  - Representing SCGS in GeMS-related decision making and schema design alongside USGS and other state surveys; presenting SCGS's contributions at the annual Digital Mapping Techniques workshop.
  - Ensuring schema compliance for all SCGS's federally funded mapping.
  - Providing support to GeMS users nationwide; includes answering submitted user questions, implementing bug fixes with Python, developing documentation and instructional materials, etc.

**GIS Intern** —North Inlet-Winyah Bay National Estuarine Research Reserve —January 2021– April 2021  
*Baruch Institute for Marine & Coastal Sciences | 2306 Crab Hall Rd, Georgetown, SC 29440*

- ❖ Served as an intern in the only designated GIS position at the Reserve.
- ❖ Responsible for gathering, managing, processing, and vectorizing historic aerial photos and T-sheets of the Winyah Bay area to map shoreline change for conservation purposes.
- ❖ Used USGS's Digital Shoreline Analysis System (DSAS) to perform basic shoreline change analysis.