



HALLIWELL

MATTHEW RODGERS

SENIOR GIS SPECIALIST, GIS/GMS SERVICES

PROVIDENCE, RI

matthew.rodgers@halliwellglobal.com

+1 631 707 1564 | Mobile

+1 401 438 5020 | Office

halliwellglobal.com

SPECIALTIES

- Geographic Information Systems Analysis
- Cartography/Mapping Support
- Storm Surge/Flood Inundation Analysis
- Spatial analysis and investigation
- Spatial Data Research, Management, Manipulation, and Quality Control
- Digital Elevation Model Sourcing, Editing, Analysis, and Mapping
- Business Interruption Research
- Aerial/Satellite Imagery Acquisition, Analysis, and Interpretation
- Database Design, Management, and Implementation
- Georeferencing and Digitization of Offline Spatial Data
- Process Automation, Scripting, and Programming
- Multiple Address Geocoding and Reporting
- GPS Support
- Map Production and Editing
- 3D Modelling and Visualization
- Web-based GIS Development
- Cause and Origin Damage Analysis
- Hurricane Storm Surge Analysis
- Wind vs. Storm Surge/Wave Damage Analysis
- FEMA Flood Zone Determinations and Mapping
- Earthquake Monitoring and Mapping

BIOGRAPHY

Matthew Rodgers has more than 15 years of experience providing Geographic Information Systems (GIS) services to clients in engineering, government, and academic research. He has used GIS to analyze, interpret and present spatial data in a wide range of applications, including flood risk, damage causation, demographic profiles, disease prevalence and cartographic visualization.

Matthew's expertise includes GIS investigation and analysis of natural disaster-related events including flooding, hurricanes, hail, and tornadoes. He utilizes a wide variety of nationwide data sources, including from governmental organizations and private firms, to develop maps for cause and origin assessments as well as flood zone determinations. He enhances reporting using recent orthographic and oblique aerial photography.

Prior to joining Halliwell, Matthew provided mapping services at the SC Department of Transportation. At SC DOT, he developed a process to convert road closure data from an internal system into a format available for public dissemination during disasters in 2015 and 2016. While at USC, he automated processing of large spatial datasets for public health research.

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QUALIFICATIONS

Bachelor of Science (Physical Geography, GIS) Pennsylvania State University, University Park, PA
Masters-level coursework, University of South Carolina, Columbia, SC

PROFESSIONAL EXPERIENCE

- Halliwell, Senior GIS Specialist
- South Carolina Dept. of Transportation, GIS Analyst
- University of South Carolina, Institute for Families in Society, Grad Assistant / GIS Analyst
- University of South Carolina, Dept. of Geography, Climate Laboratory, Grad Assistant
- Bowne Management Systems, Inc., GIS Technician
- Civil Solutions, Inc., Senior GIS Technician

SOFTWARE CAPABILITIES

- ESRI ArcGIS Desktop Suite, ArcPro, ArcGIS Online, and Modelbuilder
- Quantum GIS (QGIS)
- Google Earth and KML data schema
- Microsoft Office Suite, SQL Server 2010 (SSMS), and Visual Studio 2008
- Adobe Suite, incl. Acrobat, Dreamweaver, Photoshop

RECENT SPEAKING ENGAGEMENTS

- *How to Separate Wind and Water Damage Resulting from Hurricane Ian – Concurrent Analysis Explained*, Webinar panel discussion, December 2022.