

## Contact

### Phone

601-260-3551

### E-Mail

seth.bassett@gmail.com →

### Address

2813 Bundoran Way  
Tallahassee, FL 32308

## Sample Work

ArcGIS Portal [↗](#)

Journal Publication [↗](#)

3D Mapping [↗](#)

Published Map [↗](#)

## GIS

ArcGIS ★★★★★

ArcPro ★★★★★

AGO/Portal ★★★★★

PostGIS ★★★★★

OpenJump ★★★★★

GDAL ★★★★★☆

QGIS ★★★★★☆

Geoserver ★★☆☆☆

GRASS ★★☆☆☆

## Languages

Python ★★★★★

R ★★★★★☆

SQL ★★★★★

PL/pgSQL ★★☆☆☆

bash ★★☆☆☆

Powershell ★★☆☆☆

L<sup>A</sup>T<sub>E</sub>X ★★☆☆☆

## Systems

git ★★★★★☆

Windows ★★★★★☆

GNU/Linux ★★★★★☆

PostgreSQL ★★★★★☆

SQL Server ★★☆☆☆

Hyper-V ★★☆☆☆

AWS ★★☆☆☆

Azure ★★☆☆☆

Digital Ocean ★★☆☆☆

perforce ★★☆☆☆

# Seth W. Bassett

## Geospatial Developer II

## Experience

8/20 - Now

### Geospatial Developer II

HNTB Corporation

*Consultant in the transportation industry specializing in enterprise GIS solutions*

- Develop applications in ArcGIS Online and ArcGIS Enterprise Portal
- Act as senior GIS Developer for team of 10. Supervise and mentor junior staff. Manage Jira/Kanban boards and sprints for team. Review and approve pull requests from junior staff
- Create custom arcpy .pyt toolboxes in ArcPro to automate desktop workflows for both team and clients, improving team efficiency and turn-around times and reducing number of staff required to perform a task
- Develop complex, HSM-compliant safety engineering analyses under direct supervision of licensed Professional Engineers
- Develop strategic technology management plans for clients' enterprise GIS needs

1/19 - 5/20

### Data Science Analyst

Citizens Property Insurance Corporation

*Develop custom geospatial solutions that support decision making in the property insurance industry*

- Developed Enterprise Architecture Plan for installation, maintenance, and user onboarding of ESRI ArcGIS Enterprise Portal
- Architected, developed, and deployed end-to-end solution for matching NHC hurricane forecasts against 750,000 simulated hurricanes in order to forecast losses in real time
- Created custom arcpy toolboxes to automate production of 100+ standardized maps for reports, decreasing deliverable time by 90%

1/14 - 1/19

### Florida Geological Survey

Environmental Specialist III

*GIS coordinator, developer, and systems administrator for a small state agency conducting research in geology and the geosciences*

- Administered Linux servers and PostgreSQL/PostGIS database clusters for spatial data in a virtualized environment (Linux, Hyper-V, Azure) for organization
- Managed enterprise GIS assets, license administration, software installations, and software maintenance for organization
- Developed predictive models using decisions trees, random forest, support vector machines, and other machine learning algorithms; unsupervised and supervised clustering; interpolated 3D geologic data using kriging, inverse distance weighted, natural neighbor, and global polynomial interpolation; topographic feature detection using high resolution LIDAR data; interactive dashboards

8/10 - 12/13

### Florida Geological Survey

Environmental Specialist I

*GIS lead for small team of 5 Professional Geologists publishing 2,000 sq. mi. of new geologic maps per year*

- Streamlined project's annual GIS workflows, allowing a twofold expansion in the total area mapped in a project year.
- Developed a digital field data acquisition system for field teams that increased total field data acquisition fivefold; digital field system has now been used for 175+ working days and 50,000+ road miles without data loss.

# Seth W. Bassett

Occupational Development

## Education & Certifications

2015	Geographic Information Systems Professional (GISP)	Tallahassee, FL
2007-2011	PhD Student, 54hrs graduate credit (withdrew as ABD)	Florida State University
2005	Bachelors of Science	University of Southern Mississippi
1994	Eagle Scout	Boy Scouts of America

## Professional Activities & Awards

2019	Founder	Tallahassee FOSS GIS Interest Group
2019	Member	Seven Hills Regional Users Group Committee (SHRUG)
2014	Employee of the Year	Florida Geological Survey
2012	Employee of the Month	Department of Environmental Protection
2012	Team Extra Effort Award	Florida Geological Survey
2012	Davis Productivity Award	Prudential & Florida Tax Watch
2011	Individual Extra Effort Award	Florida Geological Survey

## Professional References

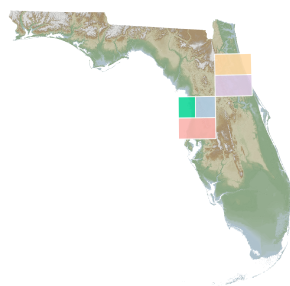
Dr. Jonathan Arthur, Ph.D., P.G. Executive Director  
American Geosciences Institute  
Phone: 703-379-2480 ext 202  
Email: jarthur@americangeosciences.org

Guy 'Harley' Means, P.G. State Geologist & Director  
Florida Geological Survey  
Phone: 703-379-2480 ext 202  
Email: jarthur@americangeosciences.org

Alan Baker, P.G. Section Head  
Florida Geological Survey  
Section Head, Geologic Data and Information Management Section  
Phone: 850-617-0337  
Email: Alan.Baker@dep.state.fl.us

Rick Green, P.G. Program Lead  
Florida Geological Survey  
STATEMAP Geologic Mapping Program  
Phone: 850-488-9380  
Email: Rick.Green@dep.state.fl.us

## Published Maps





- 2018 R.C. Green, C.P. Williams, C.A. Albritton, K.M. White, A.G. Lamarche, S.W. Bassett, and L.F. Nason. **“Geologic map of the U.S.G.S. Kissimmee 30 x 60 minute quadrangle, central Florida.”** Open-File Map Series 110. Tallahassee, FL: Florida Geological Survey. 3 Plates.
- 2017 Green, R.C., B. Apolinar, C.P. Williams, K.M. White, S.W. Bassett, and L.F. Nason. **“Geologic map of the U.S.G.S. Saint Petersburg 30 x 60 minute quadrangle, west-central Florida.”** Open-File Map Series 109. Tallahassee, FL: Florida Geological Survey. 3 Plates.
- 2014 Green, R.C., C.P. Williams, K.M. Campbell, L.M. Hannon, S.W. Bassett, W.L. Evans, D.T. Paul, and B. Apolinar. **“Geologic Map of the USGS Saint Augustine 30 X 60 Minute Quadrangle, Northeast Florida.”** Open-File Map Series 106. Tallahassee, FL: Florida Geological Survey. 3 Plates.
- 2013 Green, R.C., W.L. Evans, S.W. Bassett, and L.M. Hannon. **“Geologic Map of the USGS Daytona Beach 30 X 60 Minute Quadrangle, Northeast Florida.”** Open File Map Series 105. Tallahassee, FL: Florida Geological Survey. 3 Plates.
- 2012 Williams, C.P., R.C. Green, S.W. Bassett, L.M. Hannon, and A.D. Flor. **“Geologic Map of the Western Portion of the U.S.G.S. Inverness 30 X 60 Minute Quadrangle, Central Florida.”** Open File Map Series 103. Tallahassee, FL: Florida Geological Survey. 3 Plates.
- 2012 Green, R.C., W.L. Evans, C. Kromhout, S.W. Bassett, and L.M. Hannon. **“Geologic Map of the USGS Tarpon Springs 30 X 60 Minute Quadrangle, Central Florida.”** Open File Map Series 104. Tallahassee, FL: Florida Geological Survey. 3 Plates.
- 2011 Green, R.C., C.P. Williams, K.E. Burdette, S.W. Bassett, A.D. Flor, and D.T. Paul. **“Geologic Map of the Eastern Portion of the U.S.G.S. Inverness 30 X 60 Minute Quadrangle, Central Florida.”** Open File Map Series 102. Tallahassee, FL: Florida Geological Survey. 3 Plates.

## Published Papers

- 2018 Green, R.C., Williams, C.P., Lamarche, A.G., Albritton, C.K., White, K.M. and S.W. Bassett. **“Text to accompany geologic map of the USGS Kissimmee 30 x 60 minute quadrangle, central Florida.”** Open File Report 110. Tallahassee, FL: Florida Geological Survey.
- 2017 Phelps, D., S.W. Bassett, A. Baker. 2017. **The Bathymetry, Top of Rock, and Thickness of Unconsolidated Sediments Offshore of the Northeast and Central East Coast of Florida** *Florida Geological Survey, Report of Investigation 121*).
- 2016 Xu, Z., S.W. Bassett, B.X. Hu, and S.B. Dyer. 2016. **Long distance seawater intrusion through a karst conduit network in the Woodville Karst Plain, Florida.** *Scientific Reports*. <http://www.nature.com/articles/srep32235>
- 2014 Green, R.C., C.P. Williams, K.M. Campbell, P.W. Bambach, L.M. Hannon, S.W. Bassett, W.L. Evans, B. Apolinar, and D.T. **“Text to Accompany Geologic Map of the USGS Saint Augustine 30 X 60 Minute Quadrangle, Northeast Florida.”** Open File Report 102. Tallahassee, FL: Florida Geological Survey.
- 2013 Green, R.C., W.L. Evans, and S.W. Bassett. **“Text to Accompany Geologic Map of the USGS Daytona Beach 30 X 60 Minute Quadrangle, Northeast Florida.”** Open File Report 101. Tallahassee, FL: Florida Geological Survey.

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[seth.bassett@gmail.com](mailto:seth.bassett@gmail.com)  
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- 2012 Green, R.C., W.L. Evans, C.P. Williams, C. Kromhout, and S.W. Bassett. **“Text to Accompany Geologic Map of the U.S.G.S. Tarpon Springs 30 X 60 Minute Quadrangle, Central Florida.”**  Open File Report 98. Tallahassee, FL: Florida Geological Survey.
- 2011 Williams, C.P., R.C. Green, S.W. Bassett, A.D. Flor, and D.T. Paul. **“Text to Accompany Geologic Map of the Eastern Portion of the U.S.G.S. Inverness 30 X 60 Minute Quadrangle, Central Florida.”**  Open File Report 96. Tallahassee, FL: Florida Geological Survey.

## Presentations

- 2020 Bassett. 'A Gentle Introduction to PostGIS'. Seven Hills Users Regional Users Group (SHRUG) 2020. Tallahassee, Florida.
- 2019 Bassett. 'Benchmarking PostGIS and SQL Server Performance Using Spatial Queries'. SHRUGINAR 2019. Woodville, Florida.
- 2018 Bassett, S.W., R.C. Green, and K.M. White. 'GIS Jambalaya: Updates on FGS Projects and Activities'. Digital Mapping Techniques 2018, Lexington, Kentucky.
- 2017 Bassett, Seth Willis. **The Future is Now: Building a Web App that Fuses GIS and Machine Learning** . Seven Hills Regional Users Group (SHRUG) 2017, Tallahassee, Florida.
- 2017 Bassett, Seth Willis. **Teaching a Computer Geology: Automated Lithostratigraphic Classification Using Machine Learning Algorithm** . Digital Mapping Techniques 2017, Minneapolis, Minnesota.
- 2017 Bassett, Seth Willis. **Open Source Software for Niche GIS Solutions** . Digital Mapping Techniques 2017, Minneapolis, Minnesota (In Publication).
- 2016 Bassett, Seth Willis and Scott Barrett Dyer. **Big Data Hydrogeology and the Woodville Karst Plain** . Digital Mapping Techniques 2016, Tallahassee, Florida.
- 2015 Bassett, Seth Willis, Levi M. Hannon, and Katherine M. White. **“Using QGIS and Threejs to Produce 3D Web-Ready Content** ”. Conference Presentation presented at the Seven Hills Regional User Group (SHRUG) Annual Meeting 2015, Tallahassee, FL, November 18.
- 2015 Bassett, Seth Willis, Richard C. Green, and Levi M. Hannon. **“Secrets of STATEMAP: Florida’s Experience in Standardizing GIS Workflows for Year-to-Year Efficiency in Geologic Mapping.”**  Conference Presentation presented at the Digital Mapping Techniques 2015, Salt Lake City, Utah, May 17.
- 2015 Bassett, Seth Willis, Scott Barrett Dyer, and Jonathan D. Arthur. **“FGS Research in the Woodville Karst Plain.** ” Keynote Presentation presented at the Open Workshop: Study on groundwater and surface water in the Woodville Karst Plain, Florida State University, Tallahassee, FL., September 25.
- 2015 Bassett, Seth Willis. **“A Beginner’s Introduction to Using PostGIS and QGIS with Large Datasets.** ” Conference Presentation presented at the Biannual SHRUGinar Workshop, Woodville Community Center, June 16.
- 2014 Bassett, S.W., and S.B. Dyer. **“Using FOSS Tools to Organize, Build, and Analyze the Woodville Karst Plain Hydrologic Research Database.** ” presented at the 2014 SHRUG GIS Workshop, Tallahassee, FL, November 19.