

- BRIANNE HOLT -

Spatial Data Specialist

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Publications: **Global Treks and Adventures**. *A Trail Guide to Reykjavik, Iceland*. BookPatch LLC, 2022.

Projects: brianne-holt-portfolio.com

I am a proactive and personable Spatial Data Specialist with 5 years of experience in geospatial analysis and GIS software. I am dedicated to transforming complex datasets into intuitive geospatial insights. By bridging the gap between numbers and geography, I craft accessible visualizations that empower stakeholders to make impactful, data-driven decisions. I'm currently seeking new challenges where I can apply my expertise in spatial analysis, programming, and data management to help agencies design fairer, more effective services for the constituents they serve.

SKILLS

- Esri ArcGIS Pro, ArcGIS Online, ArcGIS Enterprise, Survey123, Tableau, QGIS, GeoAI, GeoServer, SQL, Building Information Modeling (BIM), AutoDesk AutoCAD, Civil 3D, Experience Builder, Python, HTML, CSS, JavaScript, R, Arcade, Scikit-learn, Visual Basic, AWS.
- Quality and detail-oriented, excellent verbal and written communication, high adaptability, time management skills, teleconferencing skills, and emotional intelligence.

EDUCATION

M.S. Spatial Data Science • Penn State University • GPA 4.0 • 2026

Coursework – GIS Software Development, Enterprise System Analysis & Design, GeoAI, Geovisual Analytics, 3D GIS

Cert. Geospatial Programming and Web App Development • Penn State University • GPA 4.0 • 2025

Coursework – Python, JavaScript, QGIS, ArcGIS, GDAL/OGR, & Cartography.

B.A. Cultural and Geospatial Studies • Arkansas Tech University • GPA 4.0 • 2020

Coursework – Computer Science and GIS applications, including ArcGIS Suite, ArcGIS Pro, QGIS, and RDBMS.

RELEVANT WORK EXPERIENCE

Champaign County GIS Consortium, Urbana, Illinois • GIS Technician 04/2024 - Present

- Create and maintain spatial data using GIS software, such as ArcGIS Pro, ArcGIS Online, and MS SQL Server.
- Write scripts to automate geoprocessing tasks.
- Create custom mapping solutions using the Consortium's GIS data.
- Establish and carry out data quality control procedures.
- Provide technical support to member agencies and clients.
- Handle GIS data sales to the public and data releases to member agencies.

Global Treks and Adventures, Reykjavik, Iceland • GIS Intern 05/2019 - 09/2019

- Collected geographic data from Iceland's national parks during a research expedition, followed by months of data compilation and creating GIS maps with ArcMap and ArcGIS Pro.
- Georeferenced images, imported elevation data and GPS/GPX data from GNSS device.
- Strengthened teamwork and communication skills through both on-site hiking and remote work.
- Contributed photos and GIS trail maps to *A Trail Guide to Reykjavik, Iceland* by Global Treks and Adventures.
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EXTENDED WORK EXPERIENCE

Freelance, Remote • Private Tutor in Geography, Math, and English 07/2020 - 03/2024
Guided students in improving their academic performance and confidence in various subjects, such as math, English, and geography.

- Strengthened time-management and organizational skills in meeting daily deadlines and keeping records for over 100 students and their custom lessons.
- Leveraged multi-disciplinary proficiency in design, geography, programming, and foreign language to broaden the scope of teaching materials for international students.

Nanao City Board of Education, Ishikawa, Japan • Assistant Language Teacher 08/2022 - 08/2023
Taught English as a foreign language and assisted elementary through junior high school ages with extracurricular and club activities.

- Acted as a cultural ambassador in the city of Nanao, Japan.
- Developed confidence in public speaking and interacting with foreign language speakers.
- Expanded ability to adapt to unfamiliar circumstances.
- Organized cultural enrichment activities for a variety of student backgrounds.

PUBLICATIONS

Global Treks and Adventures. *A Trail Guide to Reykjavik, Iceland.* BookPatch LLC, 2022.

PROJECTS

Please visit my portfolio at brianne-holt-portfolio.com to view my current and past projects.

CERTIFICATIONS

Python Data Structures • University of Michigan

Fundamentals of GIS • University of California, Davis

Going Places with Spatial Analysis • Esri

Transform AEC Projects with GIS and BIM • Esri

PROJECTS at CHAMPAIGN COUNTY GIS CONSORTIUM

- Champaign Easements Project** • Champaign County GIS Consortium 04/2024-05/2026
- Interpret legal descriptions of recorded documents as they are received by the Recorder's Office.
 - File documents into their appropriate categories (e.g., Easement, Ordinance, Vacation, Annexation, Right of Way, Quit Claim, etc.).
 - Map any newly received Easements as polygons in ArcGIS Pro in a timely manner according to their legal description.
 - Search County records for historical Easement records from 1833 through 1988 and add to the Easement feature classes.
 - Perform annual QA/QC on the Easement feature classes in ArcGIS Pro through the use of Topology layers.
- Champaign Historical Right of Way Project** • Champaign County GIS Consortium 04/2024-05/2026
- A years-long, coordinated joint effort with the County Assessor and Recorder to parse thousands of historical documents for Right of Way documentation from 1833 through 1975, to be reviewed and processed for mapping.
 - Review documents to verify they are ROW dedications or vacations.
 - Check appropriate GIS layers to ascertain whether they have been mapped. If not, forward to the necessary personnel for mapping.
 - Keep record of each document number and its mapped status, organized by Grantor and Grantee name ("City of Champaign", "Champaign County", "State of Illinois", "Townships", etc.) and time period (pre- and post-1928).
- Douglas County Parceling Project** • Champaign County GIS Consortium 04/2024-05/2026
- Interpret legal descriptions from Deeds, Plats, and Surveys to combine, split, or create new parcel polygons as documentation is received from Douglas County personnel.
- Street-View Experience Builder App** • Champaign County GIS Consortium 04/2026
- Created a widget using React and JavaScript in Esri Experience Builder Developer Edition for street-view purposes in an updated version of [Champaign County's Interactive Public Map](#).
- Census Block Boundary Suggestion Project** • Champaign County GIS Consortium 05/2026
- Suggested block boundaries for Champaign County's ~6,000 Census blocks, for use in the 2030 US Census.
 - Provided the Census Bureau with updated Parcel and Street Lines.
 - Established new boundaries for recently developed subdivisions.
 - Removed parcel, street, and municipal boundaries no longer in use.
- Champaign Political Boundary QA/QC** • Champaign County GIS Consortium 04/2024-05/2026
- Perform annual QA/QC procedures for Champaign County's Political Districts database through the use of Topology layers.
- University of Illinois Building QA/QC** • Champaign County GIS Consortium 04/2024-05/2026
- Perform monthly QA/QC procedures for the University of Illinois campus buildings.
 - Update County addressing in accordance with U of I buildings' ownership and lease changes, name changes, and newly planned buildings.
 - Ensure campus address points are accurately placed and labeled for transfer to NG-911 databases.