

Joshua Murbarger

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Relevant Experience

Treeswift, Philadelphia, PA

**Spatial Data
Specialist**
9/23 – 5/24

**Data
Annotation
Specialist**
3/22 – 9/23

- **Automated** creation of map deliverables and data collection tools, **reducing map production time by 99%**, from over 4 hours to under 3 minutes. (ArcGIS Online, ArcGIS API for Python, & ESRI Field Maps)
- Assisted in spatial data intake, repaired invalid geometries, reprojected shapefiles, and packaged customer provided files in SQLite GeoPackage format for data processing. Ran grid-based sampling algorithm to identify sample plots. (Python, QGIS)
- Created high-precision carbon and timber datasets for training machine learning models using drone-acquired imagery and LiDAR data.
- Processed, stored (AWS S3), and documented digital orthophotos of sample timber plots.
- Constructed SQL queries for drone flight database
- Calibrated LiDAR and Photo positioning. Employ Git for version control.

Savills NA (Formerly Julien J. Studley, Inc.)

**Manager of
Research &
Information**
(DC Office)

Associate
RS250426 -
(Philadelphia)

Researcher
(Philadelphia)

- Managed spatial database of recorded lease and sales comparables, tenants, square footage leased, expiration dates, proposed buildings, and vacancies. Performed regular analyses to identify trends and report to brokers.
- Performed GIS-based drive-time and demographic analyses to assess site relocation consequences for client's workforce.
- Wrote client-facing quarterly real estate market review and compiled local market data for national, annual rent index.
- Abstracted leases and performed financial analyses to compare potential lease scenarios. Analyzed SEC EDGAR 10-K filings for lease exposure data.
- Prepared client pitch presentations. Created graphs and charts to illustrate commercial real estate market trends.
- Created mail merge templates to automate site tour surveys and streamline branding.
- Located new, external datasets for GIS library.
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Education

Temple University, Master's in Geospatial Data Science (expected: 12/2024)

- Completed coursework in Advanced Spatial Statistics in R and GIS Application Development in Python.

St. John's College, Annapolis, BA

- Great Books – Majors: Philosophy/History of Math and Science, Minors: Literature/Classics

Technical Skills

Python, R, SQL, ArcGIS, QGIS, Tableau, Git, MS Office