

# CONNER PERKINS MGIS

## Geographic Information Systems Analyst | ESRI ArcGIS Certified

Phoenix, AZ | 480.252.8531 | [mlbcp.connerperkins@gmail.com](mailto:mlbcp.connerperkins@gmail.com) | [www.linkedin.com/in/cperkinsgis](https://www.linkedin.com/in/cperkinsgis)

Young GIS analyst professional with 2+ years of experience in civil infrastructure consultancy and the real estate industry. Successful internship with Halff Engineering Consultants in fall 2024, and a half-decade with Pinos Altos producing mapping visualizations for customer needs part-time. Experienced in creating 3d maps with live-updating datasets and professional visual design particularly using government parcel datasets.

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|------------------------------|-----------------------------------|------------------------------|
| ✓ Esri ArcGIS Pro 2.8.3      | ✓ Esri ArcGIS Online & Enterprise | ✓ Esri Desktop/ArcMap 10.8.2 |
| ✓ AI-Land Use Classification | ✓ Geospatial Data Analysis        | ✓ Field Maps and Survey 123  |
| ✓ ArcGIS Model Builder       | ✓ Hydrogeology & Hydrology        | ✓ AutoCAD Civil 3D           |
| ✓ Spatial Analysis           | ✓ Python, HTML & Arcade           | ✓ Story Maps                 |
| ✓ Knowledge of RDBMS systems | ✓ Metadata Maintenance            | ✓ GNSS and RTK Device Usage  |

### WORK EXPERIENCE

**GIS Analyst Internship: Halff Associates, Houston, Texas** June 2024 - September 2024  
GIS analyst intern for an infrastructure consulting firm, working in the water management team. Responsible for project tasks on a task-by-task basis, based on the requirements of the analyst team. Worked on LOMR hydraulic reassessments, 1m Topography updates based on survey data, in-depth investigations for Strategy team, and assorted small tasks in larger projects.

- Updated large-scale floodplain datasets for Letters of Map Revision covering 410 acres accounting for new ground levels after construction.
- Developed cartographic products for technical reports following industry standard best practices to ensure data integrity. These included cross sectional floodplains, street utility maps, easements, and LOMR amendment analyses.
- Improved TxDOT Topography assessments using satellite imagery georeferencing and on-site measurements. Created new raster inserts to modify the main raster dataset with ground level of new developments while maintaining original datasets. Used for advising on Letter of Map Amendments and for land use modeling.
- Completed open-source historic data collection and market research for Strategy team, with an in-depth investigation of every Master Plan our competitors had supplied for county and city governments in eastern Texas. Determined which were coming up for updates and replacement and determined which ones were below our standards.
- Utilized and performed quality control on AutoCAD survey data in ArcGIS Pro. Did quality control on work from other firms to ensure cross-compatibility with our labeling systems.
- Demonstrated clear communication and efficient teamwork with superiors and coworkers. Collaborated between multidisciplinary GIS and engineering departments regularly to align expectations, requirements, and organizational methods.

**Project Leader / Team Coordinator: Pinos Altos Mountain, Phoenix, AZ** 2018 to Present  
Part-time project leader at a real estate investment firm focused on renovating homes to modern standards. Responsible for many day-to-day tasks including legal documentation, permitting processes, and handling the company's GIS needs.

- Built a custom application that tracks real-time residential property value estimates from Arizona MLS data and correlates them with public fire-risk maps and Census Bureau socioeconomic data, while using a bot to automatically trawl Copeland Insurance's pricing tools to estimate fire and flood insurance costs.

We used this data to predict areas that would see strong growth in home sales before those sales occurred and to predict markets that we would see low competition in house bidding.

- Created effective virtual tours of homes for buyers using Webmaps and interior photography tools.
- Leveraged experience from ASU's Interior Mapping Team to create spatial simulations of proposed home renovations, enabling company leadership to make informed planning and design decisions.
- For larger projects, I contributed to creating project planning documents that outlined renovation phases, timelines, and order of operations to ensure smooth operations and a minimum of work interruptions.
- Responsible for facilitating the city and county permitting process.
- Gained extensive experience in interpreting legal descriptions and legal documents pertaining to commercial and residential real estate.

## Certification and Education

### Master of Advanced Study - Geographic Information Systems - 3.92 GPA

December 2024

- *Arizona State University, School of Geographic Sciences and Urban Planning*
- **Relevant Coursework and Training:** Parcel Mapping, Adobe Creative Suite, Spatial Analysis, Spatial Statistics and Modeling, Cartographic Best Practices, Geophysical Surveying, GIS Project Planning & Implementation, GIS Project Presentation, Python Programming, SQL Server.

### Bachelor of Science in Sustainability; Minor in Biological Sciences

May 2021

- *Arizona State University, College of Global Futures*
- **Relevant Coursework and Training:** Hydrology, Hydrogeology, Sustainable Principles, Natural Resource Management.

### ESRI Certifications

- ArcGIS Associate Certification

November 2025

## College GIS Projects

### Capstone Final Project: Iceland Volcanic Earthquakes under Reykjanes Peninsula

- Solo project creating teaching tool, partnered with the Icelandic Meteorological Office.
- Received 96% on final grade.
- Developed a GIS web service application visualizing real-time seismic activity across western Iceland using open-source sensor data, measuring hundreds of quakes a day. Built, configured, and presented four 3D animations with ArcGIS Pro used in final presentation, communicating the evolving seismic activity under the Reykjanes Peninsula that precedes each eruption cycle.
- Satellite imagery analysis, contrast mapping, and seismic data were the main project components. Utilized ArcGIS Pro, CAD, 3D GIS, geospatial mapping, data visualization, georeferencing, animation and graphic design, and narrative storytelling.

### Fall Final Project: Tempe Art Spaces

- Spearheaded a team delivering three recommended locations for new public art pieces in Tempe, AZ based on a subset of the yearly Tempe Community Survey Database, plus local economic and social factors. The project received a perfect score.
- Utilized Esri ArcGIS Pro, GPS dataset creation, coordinate system conversions, research, database management, cartography, graphic design, Esri web apps, modified geospatial data, and intense teamwork. Demonstrated flexibility, strong interpersonal skills, and effective communication.

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Available for travel to conduct in-person interviews at own expense.