

Contact

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Top Skills

Python

GIS

Geospatial Analytics

Certifications

XRF/Safety training

Publications

Visitor Services Plan: Rachel Carson
National Wildlife Refuge

Kaitlyn Perham

Geospatial Analyst at Verisk
Dover, New Hampshire

Experience

Verisk

Geospatial Analyst

April 2018 - Present

Greater Boston Area

- Maintain large-scale geospatial datasets in support of the FireLine risk assessment product
- Solve complex geospatial problems with python, ArcGIS, and open source geospatial tools (QGIS, GDAL, PostGreSQL/PostGIS)
- Utilize open source tools to create scalable processes and solutions for analyzing and managing big data, and to assist in the development of new products
- Improve customer product knowledge using spatial analytics to summarize and visualize data, which are translated into meaningful, actionable insights
- Create analyses that can be used in product whitepapers, blog articles, and other marketing materials
- Provide education to help customers understand the underlying factors that affect wildfire risk exposure

Lodging Econometrics

Research & Deliverables Project Coordinator

July 2017 - April 2018 (10 months)

Portsmouth, New Hampshire

- Administer project calendar and staff assignments, primary liason between departments
- In charge of report automation and creating custom solutions for clients and internal staff workflows
- Manage data audits, manage internal projects requiring database design or data analysis
- Provide sales team with insights on target accounts, and liase with sales and production teams to design products for clients
- Collaborate with team to achieve database design, administration, and data quality goals

Weather Analytics

Imagery Analyst

April 2017 - September 2017 (6 months)

Dover, New Hampshire

- Identify and annotate attributes from images for feature classification algorithm development
- QA images processed by other analysts

Lodging Econometrics

Report Specialist

May 2015 - July 2017 (2 years 3 months)

Portsmouth, NH

- Tasked with database maintenance, data QC, text wrangling, data cleansing, geocoding
- Designed reports and produced data analyses to meet client specifications and requirements
- Write scripts to automate reports, eliminating several hundred work hours per year
- Lead database and workflow process improvements

TR Advisors

GIS Specialist

September 2014 - May 2015 (9 months)

Boston, Massachusetts

- Researched parcel deeds and plans, encumbrances, easements, wetlands, GIS analysis of terrain and other parcel characteristics to assist in the identification of parcels for disposition
- Researched property and building values to aid in insurance assessments for the MBTA
- Assisted with GIS web application development for a state conservation organization to manage vendor contracts and leases

DeLorme

GIS Technician

October 2014 - February 2015 (5 months)

Yarmouth, Maine

- Mapped worldwide points of interest, hydrologic, road, and infrastructure for client projects.
- QA internal datasets using multiple sources of imagery.
- Corrected topology, toponymy, and other cartographic data issues.

Geological Society of America

GeoCorps Intern - Minerals Program at White Mountain National Forest
May 2014 - September 2014 (5 months)

Conway, NH

- Collected and analyzed natural resources data to support management decisions for the future of the public mineral collection program.
- Improved and created new spatial datasets to aid in identifying areas of exploitation and resource damage, and to predict where future exploitation may occur.
- Digitized historical geological research and maps to improve documentation in perpetuity

TR Advisors

GIS Intern

September 2013 - May 2014 (9 months)

Boston

- Researched, analyzed land ownership documents, engineering and architectural plans to determine parcel boundaries, easements, and ownership.
- Created and maintained geodatabases and assisted with administration of GIS data.
- Responded to requests for data and research from clients and public stakeholders.
- Maintained server documents for a web application used by MBTA and other state employees.

Wells National Estuarine Research Reserve

GIS Intern

January 2014 - April 2014 (4 months)

Wells, Maine

- Created a repository of GIS data from area municipal governments
- Assisted with data acquisition for emergency management planning initiatives
- Produced map products for refuge displays and presentations
- Assisted with Seaneet bird surveillance, beach erosion monitoring, and PIT fish tagging training.

Student Conservation Association

Archaeology Technician

June 2013 - August 2013 (3 months)

Macdoel, California - Klamath National Forest

- Performed pedestrian archaeological surveys and excavations

- Wrote field notes and observations; completed site and unit documentation and photography
- Wrote site reports and updated resource inventories following state and federal data standards
- Recorded data using GPS units, uploaded corrected data for use in site and survey maps.

U.S. Fish and Wildlife Service (USFWS)

Intern, Rachel Carson National Wildlife Refuge

January 2013 - May 2013 (5 months)

Wells, Maine

Wrote the VSP (Visitor Services Plan) document for the Refuge. Will be used by refuge staff as a step down plan for visitor services. Interviewed staff and researched a variety of data sources to compile information about -

- Visitor demographics and education
- Economic impacts of the refuge system on the community and economy
- Resource management objectives and their impact on visitors

Assisted with GIS, wildlife tracking, and habitat improvement projects.

USM Archaeology Laboratory

Student Research Assistant/Lab Tech

September 2011 - May 2013 (1 year 9 months)

Gorham, Maine

Processed excavation units from Malaga Island, Isles of Shoals research projects. Conducted supervised lab analysis of artifacts and ecofacts, including -

- Flotation, particle size analysis of vibracore samples
- Historic and prehistoric ceramics analysis
- Lithic analysis, terrestrial and marine faunal analysis

Cleaned, bagged, and cataloged artifacts. Performed weights, measurements, MNI calculations, munsell scores, unit and level documentation. Prepared samples for XRD and XRF analyses. Compiled data, created data sets and tables for use in research publications. Administered/assisted other students with laboratory work in Environmental Arch., Analysis of Materials, and Public Arch. courses.

Education

University of Southern Maine

Bachelor of Arts (BA), Geography-Anthropology · (2013)