JUSTIN CULMAN

Cartographic Technician

CONTACT

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EDUCATION

MA Applied Geography and
Geospatial Sciences
University of Colorado Denver
Graduate GIS Certificate
TA for Cartography and Computer
Mapping for two semesters
August 2018 – May 2020

BS Environmental Science and
Geography Double Major
University of Oregon
September 2013 – June 2017

GIS SKILLS

- ArcGIS Online/Portal (3 years)
- Adobe Suite (2.5 years)
- AutoCAD Civil 3D (1.5 years)
- Collector/Field Maps (3 year)
- Data Management (3 years)
- Ecological GIS Field Research (2.5 years)
- ESRI Suite (5 years)
- Field Data Collection Trainer (2.5 years)
- High Accuracy Data Collection (3 years)
- Model Builder (1.5 years)
- Python (1 year)
- QGIS (1 year)
- Survey123 (2 years)

PROFILE

My professional endeavors lie within GIS computer mapping, web cartography, terrestrial ecology, and marine ecology, particularly with field research mobile field data collection. My objective is to collaborate these interdisciplinary interests into a career path that allows me to be in the field and complete compelling GIS deliverables in print and web-based platforms while sharing my wealth of knowledge to others through trainings and publications.

PROFESSIONAL EXPERIENCE

Cartographic Technician
Grand Teton National Park | Moose, WY| May 24, 2021 - Present
- GIS tech support for park staff for mobile field data collection devices including Trimble R1 and Geo7X, Eos Arrows, Leica's, Field Maps, Survey123, and AGOL.
- Back country monitoring and mapping of glacial elevation change pre and post glacial melt season including air temperature loggers and repeat photo points.
- On the fly GIS support for projects across various park divisions and disciplines, including wildlife, law enforcement, interpretation, social sciences, and more.

GIS Analyst Intern
Capitol Reef National Park | Torrey, UT | Sept. 28, 2020 - March 12, 2021
- Provide data management of all cultural resources GIS data, updating to federal cultural resource standards, and implement new folder structure with proper documentation for future GIS data management.
- GIS tech support and trainer for updated workflows and field data collection
- Develop Survey123 applications for capturing graffiti offenses and removal as well as an application for monitoring rare cactus species health pre and post grazing.

GIS Analyst Intern
National Park Service IMR Geographic Resources Division | Lakewood, CO | April 1, 2019 – June 13, 2020 | March 12, 2021 - May 24, 2021

- Provide geospatial support to 85 national parks within seven states with ArcGIS Online web maps, data collection, data management, ESRI StoryMaps, and park specific project assignments
- Develop and implement four-day training on GIS data management, mobile field data collection with ArcGIS Field Maps and Survey123, GNSS and High Accuracy functionality, and project workflows with ArcGIS Pro and ArcGIS Online/Portal
- Completed 6 month project from start to finish for digitizing 240+ climbing routes on Devil's Tower National Monument in 3D Scene and Web AppBuilder.

GIS Field Technician
Encompass Energy Services, LLC | Broomfield, CO | March 25, 2018 – March 23, 2019
- Work with Enterprise Products client to map out structures within a 500' buffer of pipeline network in the field throughout Louisiana to assess high consequence areas utilizing ArcGIS Collector, GNSS high accuracy receiver, and ArcGIS Online.
- Work with and train civil engineers to take data created in AutoCAD and convert to usable feature classes in ArcGIS Pro for a variety of clientele deliverables.
- Created a python script to automate data management of weekly updates from Conoco to update attribute information and transform data into a geodatabase .

Cartographic Researcher
University of Oregon Infographics Lab | Eugene, OR | Sept. 15, 2016 – Sept. 20, 2017
- Assisted in constructing *Wild Migrations: Atlas of Wyoming's Ungulates* published in 2018 by analyzing GPS collar data and implement cartographic principles to create maps, graphics, and tables within over 50 page spreads.
- Utilize ESRI Arcmap, Adobe Illustrator, InDesign, and Photoshop to edit print layouts