

Benjamin White

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Summary

A hard-working geospatial professional with cross-disciplinary mapping skills and an artistic data visualization flare. Perpetually inquisitive, I am a continuous learner, a team player, and thrive in positions with multiple duties. My career goals are to be constantly learning while using evidenced based practices derived from maps and spatial data to better our world.

Skills

- **GIS**
Esri (ArcGIS Pro, AGOL, ArcGIS Indoors, Survey123, ArxGISDashboards, Web App Builder), Open Source (QGIS, GDAL, GeoServer, PostgreSQL, SatScan, GeoDa, QField, Input)
- **Remote Sensing**
FAA Part 107 Remote Pilot, Wingtra & senseFly UAV systems, Pix4DMapper/Pix4DCloud/Pix4DMatic, Drone2Map, WebODM
- **Data Analysis**
Pandas, R, SAS, Jupyter Notebooks, Excel, Tableau, PostgreSQL
- **Graphic Design**
Inkscape, GIMP, Scribus

Experience

GIS Technical Consultant, Health & Public Safety OCT 2021 -PRESENT **Esri, Louisville, CO**

- ETL Scripting and automation of public health opioid and maternal health PHI data
- Public Health Index updating and automation
- Leading geospatial health data discovery trainings as a SME for clients
- Scoping of projects and approaches for vector control and monitoring
- Geospatial data cataloging for the USDA Office of Inspector General

GIS Engineer & International UAV Pilot MAY 2019 - SEP 2021
Acting GIS Manager MARCH 2020 – JUNE 2020

Medici Land Governance, Midvale, UT

- Designed and executed large-scale 100km²+ UAV survey mapping campaigns in St. Kitts, Zambian Copperbelt, and Tulum, Mexico, including one of the largest Wingtra drone mapping projects
- 100+ hours of cross-platform fixed-wing UAV survey mapping
- Established and grew the UAV mapping team capabilities of the company in under 6 months to an internationally recognized team
- Created automation processes for data processing and synthesis of multiple data streams for diagnostic and company metrics
- Created imagery-collection budgeting and mission planning tools for executive leadership

Senior GIS Health Analyst MAY 2019 – JUNE 2019

GIS Health Analyst JULY 2016 – MAY 2019

CO Dept. of Public Health & Environment, Denver, CO

- Created a Spatial Autologistic Regression model of terrestrial rabies which was a collaboration across four Intermountain West state public health agencies
- Developed Health Professional Shortage Areas (HPSAs) classifications for substance abuse treatment to aid in the distribution of \$2million in grant funds using Two-Step Floating Catchment Area methods
- Instituted a statewide county health index to streamline over \$14 million in health program funding to communities of need
- Improved, validated, and adopted the first ever state health department census-tract level small area estimates of chronic disease using BRFSS and ACS data
- Disseminated spatial data resources to promote health program collaboration and reduce government agency siloing

Waterborne Disease Coordinator MAY 2014 – JULY 2016

Legionellosis Coordinator SEP 2011 – JULY 2016

Emerging Infections Epidemiologist AUG 2010 – JULY 2016

CO Dept. of Public Health & Environment, Denver, CO

- Created spatial statistical models of Legionellosis, Campylobacteriosis, and Pertussis to investigate community and environmental risk factors
- Conducted active and passive disease surveillance on emerging infectious reportable diseases
- Grant wrote, was awarded, and helped build the Waterborne Disease Epidemiology position
- Quelled interstate outbreaks of enteric disease including the Jensen Farms 2011 Listeria outbreak
- Co-led the CDC FoodNet Geospatial Working Group to improve interstate GIS-related disease mapping

Co-Founder/Food Safety Manager NOV 2012 – MAR 2014

Summit Temp'eh, LLC Denver, CO

- Developed and implemented a HACCP Plan for safe wholesale food production
- Spearheaded packaging and label design, direct sales, marketing
- Collaborated on business plan development for a 3-person small scale startup

Disease Technician APR 2010 -- JULY 2010

MPH Practicum Intern MAY 2009 – DEC 2009

Boulder County Public Health, Boulder, CO

- Entered H1N1 influenza vaccination data into a central database
- Streamlined data processing from multiple mosquito trap reporting sites
- Conducted disease surveillance on sporadic and outbreak-related cases of infectious disease
- Produced the weekly vector borne disease report
- Developed a Knowledge, Attitudes, and Practices (KAP) survey for the Boulder County Mosquito Control District (BCMCD)

GIS Data Technician SEP 2008 – APR 2010

Colorado State University- Natural Resource Ecology Lab & Forestry Dept. Fort Collins, CO

- Ground-truthed ecological data to ensure feasibility of N.E.O.N. long-term monitoring sites
- Digitized and edited a land use change geodatabase for an academic study in the Western US
- Designed and instructed undergraduate natural resource GIS classroom lab sessions

Archaeologist & Surveying Technician MAY 2007 – FEB 2008
Mitrou Archaeological Project, Greece

- Surveyed and cataloged over 10,000 surveyed archaeological artefacts from a Mycenaean site
- Instructed over 30 undergraduate students in archaeology field school

Archaeologist MAY 2006 – AUG 2006
University of New Mexico Office of Contract Archaeology

- Excavated multiple archaeological sites (historic – pre-Columbian) across the state of New Mexico for a natural gas pipeline Cultural Resource Management (CRM) project
- Recorded, logged, and documented hundreds of stratification units (SU's) and artifacts

Education

Master of Public Health December 18th, 2009 Colorado School of Public Health
Graduate Certificate in Geospatial Sciences May 2009 Colorado State University
B.A. Anthropology, Broadcasting Minor May 20th, 2007 Marquette University

Volunteer Experience

Drones For Earth February 2022 – Present. Mission planning, Machine Learning model training
Catalively February 2021 – May 2021. Data consultation for public health suicide elimination