

Alex Key

Environmental Specialist + Geospatial Analyst + Scientist

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Find me on [Linked In](#)

Education

University of Colorado, Denver, CO | *Class of Spring 2014*

Master of Science - Environmental Science, 3.85 GPA

Specializations in Water Quality and Geospatial Analysis

Relevant coursework: Environmental Engineering, Geographic Information Systems, Statistics, Human Health Risk Assessment, Biogeochemistry, Paleoclimatology, Environmental Chemistry, Resource Management, Conservation Biology, Aquatic Chemistry, Hydrology, Aquatic Ecology, Advanced Remote Sensing

Georgia State University, Atlanta, GA | *Class of Spring 2012*

Bachelor of Interdisciplinary Studies - Environmental Sciences, 3.26 GPA

Interdisciplinary science degree focused on achieving advanced understanding of chemistry, biology, geology, and physical geography

Work Experience

Research Associate

Institute for Environmental Solutions, Denver, CO | *Jun 2013 - Current*

www.i4es.org

Responsibilities include writing grant requests, occasionally leading team meetings, literature research on chemical contaminants, presentation of material to large audiences, drafting of internal documents, meetings with stakeholders, social media management, graphic design, website maintenance and development of a public outreach plan.

Lead Research Assistant & Lab Manager

University of Colorado Hydrology, Denver, CO | *May 2013 - May 2014*

Research focused on the hydrologic responses to mountain wildfires. Laboratory responsibilities include management of personnel scheduling, equipment inventory, bioassessment of benthic macroinvertebrates, development of spreadsheets for calculating metrics, and task delegation to meet firm deadlines. Field duties include deployment of rain gauges, water quality analysis, macroinvertebrate sampling, land surveying, development of GIS site plan, and assistance with LiDAR scanning.

GIS Project Team Member

Organization for Tropical Studies, La Selva, Costa Rica | *Sep - Nov 2013*

www.ots.ac.cr

Worked remotely from Denver using ArcGIS to georeference historical aerial photos for the Las Cruces Biological Station. The purpose of this work was to aid in the analysis of land use change in Costa Rica over the last 30-40 years. Additional responsibilities included the creation of an instructional document to assist other team members with the georeferencing process.

Environmental Educator

Thorne Ecological Institute, Boulder, CO | *Aug - Nov 2012*

www.thornenature.org

Taught basic environmental principles to youth and provided support for fundraising events.

Biological Research Intern

Georgia Aquarium, Atlanta, GA | *Jan - Jun 2012*

www.georgiaaquarium.org

Recorded swim patterns and made swim speed calculations to determine behavioral shifts of whale sharks in response to environmental change.

Technical Skills

Science and Math - Strong knowledge base in biology, ecology, chemistry, geology, physical geography, and mathematics

Geospatial - Experience with geospatial analysis using geographic information systems and remote sensing methods

Writing - Writing experience with project proposals, technical lab reports, guidance documents, literary research reports, grant requests, and creation of complex data plots

Technology - Comfortable using computers to solve problems with high interest and willingness to learn new software

Policy - Coursework level familiarity with environmental assessment procedures

Communication - Excellent public speaking and communication skills

Sampling - Ability to safely conduct field work

Lab Work - University level laboratory experience in general chemistry, organic chemistry, biology, mineralogy, and sedimentary geology

Software Experience

Microsoft Office Suite

ArcGIS - geographic information systems

Google Earth

ERDAS Imagine - satellite image analysis

ENVI - satellite image analysis

EPA ProUCL - environmental statistics

EdGCM - global climate modeling

HEC-HMS - hydrologic modeling system

Beilstein Crossfire - organic chemical database

Adobe Photoshop, Lightroom, Premiere Pro

Prezi - presentation software

Scholarly research databases e.g. Web of Science

Honors & Activities

Golden Key International Honour Society

International Geographic Honor Society (Gamma Theta Upsilon)

Association for Environmental Studies and Sciences

CU Denver Environmental Governance Group

CU Mountain Biking Team

Atlanta Community Food Bank