RUSSELL LYON

701 Spanish Main Dr, Cudjoe Key, FL 33042 | 678.492.2260 | ralyon3@gmail.com

EDUCATION

University of Arizona, Tucson, AZ
MS Natural Resources, Watershed Modeling and Ecohydrology emphasis May 2013

Georgia Southern University, Statesboro, GA
BA Geology, GIS minor July 2002

PROFESSIONAL EXPERIENCE

GIS Analyst III January 2016-Present
Critigen Naval Air Station Key West, FL

- Provide GIS support to the Navy's Public Works and Environmental programs and Naval Facilities Southeast including engineering, fire response and asset management projects
- Perform thousands of edits each month utilizing ArcSDE versioned databases in a Citrix environment, tracking and reporting on all changes and creating bi-monthly backups
- Constantly updating utility assets (water, electric, sewer etc.) via GPS collection and post-processing using Trimble, ArcPad and Pathfinder technologies and georeferencing as-built drawings and other analog maps and heads-up digitizing necessary features
- Delivered more than eight hours of hands-on training and constantly providing technical support for the Navy's GeoReadiness Explorer, a local web mapping application
- Successfully met all Periodic Virtual Inventory quarterly goals to match GIS features to property record cards through research of archived CAD drawings and consulting with Regional Planners

Environmental Information Management Specialist February 2015-November 2016
Servicio Nacional de Áreas Naturales Protegidas por el Estado (SERNANP) Lima, Peru

- Served as Peace Corps Response volunteer with the Peruvian National Park Service helping to protect more than 76 natural areas by providing technical support in geodatabase design, spatial data standardization and GIS training
- Designed geodatabase schema for SERNANP's preexisting spatial and tabular data and incorporated relationship classes and domain tables to increase database performance
- Improved data quality by implementing a standardized nomenclature for datasets, creating and validating topology rules and performing spatial adjustments to fix resulting geometry errors
- Trained coworkers in ArcMap, QGIS and GPS data collection; taught two multiday GIS workshops in Spanish to biologists and park guards; created a technical manual (later published by the Peruvian government) and blog to accompany the course

GIS Analyst February 2014-January 2015
CSU Center for Environmental Management of Military Lands (CEMML) Hill Air Force Base, UT

- Transitioned spatial data to new SDSFIE Air Force Adaptation standard and created maps and performed analyses for Environmental Management Program Managers
- Inventoried and evaluated more than 100 natural and cultural resource spatial datasets, including attribute tables, and created FGDC compliant metadata in preparation for data migration to the latest Air Force data model
- Worked closely with nine Program Managers from three additional Air Force Bases to identify and ensure that all historical data and previous project deliveries were included in the new data model
- Supported environmental monitoring projects including creating 80 plume maps for water quality monitoring efforts on private properties adjacent to the installation

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PROFESSIONAL EXPERIENCE Continued

Research Specialist   August 2010-January 2014
The University of Arizona   Tucson, AZ

- Served as environmental modeler and technical author for DoD Strategic Environmental Research and Development Program (SERDP) project to create an ecohydrological classification and wildlife habitat model based on vegetation and hydrologic conditions
- Successfully assessed hydrologic function of more than 80 watersheds located in four distinct semiarid ecosystems using the Automated Geospatial Watershed Assessment (AGWA) toolkit
- Created geodatabases with hydrologic modeling results with appended metadata and wrote technical reports for delivery to military project managers and help guide policy directives
- Used AGWA to explore the impacts that human disturbances and wildfire have on downstream hydrology, erosion rates and vegetation characteristics and created maps and hydrographs to guide Burned Area Emergency Response remediation activities

Natural Resource Specialist   January 2007 – September 2008
Yamparáez Municipality Environmental Program   Yamparáez, Bolivia

- Peace Corps volunteer responsible for providing expertise to mayor's office to aid local natural resource projects
- Introduced GPS and GIS technology to environmental department personnel to assist agricultural projects and identify areas suitable for small dams and reservoirs
- Coordinated the collection of GPS data of local roads, schools and health clinics for over 30 villages and assembled the first ever municipality-wide map
- Performed community outreach activities including conservation workshops with local farmers on sustainable agriculture, tree nurseries and community gardens

Environmental Scientist II   September 2004 – December 2006
Shaw Environmental Inc.   Los Alamos National Laboratory, NM

- Supported multiple environmental remediation contracts providing GIS, geology and field data collection support
- Independently created local GIS division and contributed spatial investigations to support environmental assessments, remediation plan of actions and monitoring reports
- Successfully headed a stormwater sampling team overseeing the collection from over 200 National Pollutant Discharge Elimination System permitted sites
- Served as lead geologist on various drilling projects including logging and sampling rock cores and creating geologic cross-sections

GIS Analyst   August 2002 – June 2004
CSRA Regional Development Center   Augusta, GA

- Supported local governments in 13 rural counties with GPS and GIS technology training and cartographic products
- Collected and post-processed GPS data for roads, trails, sidewalks and historical markers as part of a Department of Transportation contract using Trimble/TerraSync products
- Geocoded and analyzed spatial distribution of crime and teen pregnancy data to help locate future youth centers in support of a Community Youth Development Strategy project
- Provided GIS and GPS support for local counties including providing zoning, utility and roadway maps and trained non-technical staff in field data collection