

Jessica Sanchez

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Objective

Hard-working and eager recent graduate looking to apply my education and experience to a career in GIS. Areas of proficiency include ArcGIS, ENVI, and system dynamics modeling.

Skills

- GIS software: ArcMap, QGIS, ENVI
- Coding: Python, JavaScript, HTML
- System Dynamics Modeling: InsightMaker, Stella
- Proficient with Microsoft Office
- Fluent in Spanish

Education

Bachelor of Arts, Geography / Environmental Studies
University of California, Los Angeles
Minors in Geographic Information Systems and Anthropology

Dec 2015

Projects

Wilbebeest Habitat Suitability Changes in the Serengeti-Mara Ecosystem

Utilized both ArcGIS and ENVI to look at changes in suitable wildebeest habitat from 1995 to 2015. Used cell statistics to sum point values assigned to factors included in the analysis—vegetation type (classification) and health (NDVI), average rainfall, river and road locations (distance buffers), elevation (DEMs), and human presence.

Analysis of Cell Towers Across Southern California

Utilized ArcGIS to locate and track cell tower locations in the study area. Analyzed patterns of distribution by locating important highways and essential establishments, such as police stations. Conducted a viewshed analysis to determine areas of cellular coverage. Simulated scenarios, such as increasing height or adding another tower in remote locations, to determine which method would most effectively improve coverage.

Land Use Changes in Hollywood

Created a vector layer shapefile tracing the historic layout of Hollywood's buildings using a photo of Hollywood from the 1950s. Digitized, edited, and classified the buildings by land use (commercial, public space, residential, etc.) to analyze changes in land use.

Employment History

GIS Analyst Intern—*Los Angeles Homeless Services Authority* Apr 2015–Jun 2015

Developed a map-based app with ArcGIS Online to help volunteers track homeless counts and locations, as well as a quick description of the persons being counted. Utilized ArcGIS spatial analyst tools and cartography to create maps of Los Angeles communities, districts, census tracts, and resources to serve as visual aids for special reports. Managed, georeferenced, address matched, and verified incoming data.