Andrew Garcia

Geospatial Analyst

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Skills

Overview

ArcGIS Pro • Digital Cartography • Geospatial Analysis • GIS Mapping • Geo Statistics • OSM JOSM • Data Management

Software

0 LOC ⟶ 100 LOC

ArcPy • ArcGIS • Python

Story Map • QGIS • JOSM

R • SQL • Tableau

Projects

- ○ Surface Prediction Mapping - Nuclear Toxicity
- ○ Climate Change - Sea Level Rise Prediction
- ○ Topo-bathymetric Lidar Data Collection - Hexagonal binning
- ○ Viewshed Analysis 2D/3D
- ○ Assessment Modeling for Water Functional Planning
- ○ OSM global road network regression analysis

Purpose

Utilize GIS technologies and tools to solve complex system problems. Leverage the full range of GIS capabilities to spatially analyze; quantify, discover patterns, and predict outcomes using a blend of proprietary and open sourced software to assist in making comprehensive decisions.

Experience

GIS Analyst | *Kaart*

July 2018 Present

- Lead small consulting team; developed comprehensive business continuity plan for sales strategies and spatial analytic project workflows.
- Turn by turn navigation (pedestrian & automobile) & street cam ground surveying - Realize geographic model deficiencies in global road network transportation system; drove data quality mapping improvement with less than 2% error
- Mentoring program developer and leader- Training and development for 30 new employees to energize teams and facilitate greater employee engagement, nurture, and develop skills and talent.
- Strengthen employee tenure; conducted quarterly open discussion-feedback sessions to better determine employees experience, needs, and potential new implementations

Municipal Solid Waste Advisor | *Republic Services*

2014-2017

- Set operational sustainability goals for clients such as Amazon & Microsoft to meet and exceed city of Seattle and King county regulations by conducting comprehensive waste assessment evaluations.
- Spokesperson for Republic Services at sponsorship events; trade shows; Chamber of Commerce; City of Seattle and King County monthly meetings.
- Exceeded company annual revenue goals by over 150% in 2015 and 2016 ; Salesforce (CRM) Super User of Western Region
- Nominated and selected as the highest performer nationwide for landfill byproduct diversion-zero waste initiatives.

Sustainability Coordinator | *Paypal*

2010 -2013

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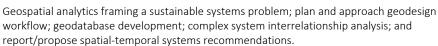### Sustainability Liaison | *StateFarm*

2008 -2010

- Led company-wide process driving environmental stewardship via waste reduction and water conservation while achieving cost benefits
- Sustainability and environmental awareness events coordinator for local region call centers (2000+ employees)
- Author and gatekeeper of sustainability articles, tips, guidelines, and best practices for State Farm Employee Education and Green Space Blog

Education

MS | Geographic Information Systems

University of Washington
2019

Geospatial analytics framing a sustainable systems problem; plan and approach geodesign workflow; geodatabase development; complex system interrelationship analysis; and report/propose spatial-temporal systems recommendations.

BA | Sustainability

Arizona State University
2014

Concepts and methods to developing sustainable systems for water, land, air, and urban management at the local to global level

Foreign Ex. Mandarin Chinese Linguistics

Sichuan University
2013

Chinese language and Chinese Cultural Studies - International exchange student
中文和中国文化学-国际留学生