

Andrew Garcia

Geospatial Analyst



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GeoDrew.com



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Skills

Overview



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

Research Analyst | JLL

- Deliver interactive mapping solutions via ArcGIS Pro, manage information and insights through Tableau, with a focus on commercial real estate market conditions, trends and forecasts, as well as economic and demographics activity
- Subject Matter Expert for industrial brokerage leaders and researchers in PNW region. Respond to internal stakeholders and external client requests for various data inquiries and information.
- Manage regional databases and produce statistics reports/articles for national quarterly publication.

Adjunct Professor - GIS | Seattle University

- Teach Introduction to Geographic Information Systems as a required cross-listed course for Environmental Sciences and Geography undergraduates.
- Introduce students to social and environmental case studies using GIS applications related to urban and environmental planning.
- Fundamentals of cartography, spatial data, spatial analytics and methodologies, and data visualizations using ArcGIS Pro Enterprise and data management (required software).

GIS Analyst | Kaart

- Led 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

- 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

- Develop and implement business continuity plans i.e. carbon reduction, energy efficiency, solid waste impact, and cost-benefit analysis for zero-waste innovative solutions for 1000+ employees and community members.
- Developed and managed environmental educational awareness outreach programs and created PayPal/Ebay's first Green Team in AZ.
- Outstanding Achievement Award from both Director and VP of PayPal for developing and leading The Power of Introversion, Creativity, and Education for over 450 employees.

Education

MS | Geographic Information Systems

University of Washington

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

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

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



Feb 2022 - present



Winter Qtr 2022



July 2018
Dec 2021



2014-2017



2010 -2013

