

# Khalil Lezzaik

Sacramento, California | (714) 310-0317 | [LEZZAIKK87@GMAIL.COM](mailto:LEZZAIKK87@GMAIL.COM)

[Personal Website](#) | [LinkedIn](#)

**Ph.D. in Water Resources with 8+ years of experience in water systems analysis, Remote Sensing and GIS analysis, and regulatory compliance. Expertise in sustainable resource management, groundwater modeling, and applied environmental research. Proven ability to bridge technical solutions with policy-driven strategies to address global water challenges.**

## Experience

**JULY 2018 - PRESENT**

**Research Engineer II | OWP at Sacramento State University | Sacramento, California**

- Demonstrated expertise in regulatory compliance and sewer system management, successfully completing 27 Sewer System Management Plans (SSMPs) for California State Parks.
- Advanced proficiency in GIS analytics and mapping, leveraging geographic data to support decision-making, optimize project planning, and enhance environmental and engineering assessments for California State Agencies.
- Comprehensive experience in analyzing environmental regulations and policies, ensuring adherence to state and federal environmental standards for California State Parks.
- Engineered innovative environmental monitoring tools using Arduino microcontrollers to collect, analyze, and report environmental data effectively.
- Designed and produced engaging training videos and outreach materials, simplifying complex stormwater and environmental concepts for State Parks staff and public education initiatives.

**AUGUST 2012 – AUGUST 2016**

**Doctoral Researcher | University of Georgia | Athens, Georgia, USA**

- Designed and implemented the Groundwater Risk Index (GRI), integrating physical and socioeconomic criteria to assess groundwater depletion risks.
- Conducted regional-scale modeling of groundwater reserves and storage changes in the Middle East and North Africa Region using ArcGIS and remote sensing datasets.
- Analyzed global groundwater depletion patterns by leveraging gravimetric remote sensing data and applying statistical techniques to identify critical hotspots.

## Skills

Project Management | Research Services | GIS & Remote Sensing | Groundwater Modeling | Certified Commercial Drone Pilot | Public speaking | Data analytics | Scientific Communication | Teaching and Training | Technical Writing & Editing | ChatGPT Prompt Engineering | Statistical Analysis Software (R, Python, Excel) | Database Management Software (SQL)

## Education

**AUGUST 2012 – AUGUST 2016**

**Ph.D. Water Resources and Remote Sensing | University of Georgia | Athens, Georgia, USA**

**SEPTEMBER 2009 – DECEMBER 2010**

**M.S. Engineering Geology | University of Leeds | Leeds, United Kingdom**

**SEPTEMBER 2006 – JULY 2009**

**B.S. Geology | American University of Beirut | Beirut, Lebanon**