



Michael ANDERSON

FLOOD RISK HYDROLOGIST

Innovative hydrologist specializing in flood risk assessment and management with over 7 years of experience in the public sector. Proven ability to analyze hydrological data and develop floodplain models that inform land-use planning and emergency response strategies. Strong understanding of regulatory frameworks and experience collaborating with government agencies to enhance community resilience to flooding.

CONTACT

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- 📍 San Francisco, CA

SKILLS

- Flood risk assessment
- GIS
- Hydrological modeling
- Public outreach
- Data analysis
- Policy advocacy

LANGUAGES

- English
- Spanish
- French

EDUCATION

**MASTER'S IN ENVIRONMENTAL
SCIENCE, COASTAL UNIVERSITY, 2013**

ACHIEVEMENTS

- Developed a flood risk management plan that reduced annual flood damage costs by 15%.
- Received recognition from the state for outstanding contributions to floodplain management.
- Contributed to the successful implementation of a multi-million dollar flood mitigation project.

WORK EXPERIENCE

FLOOD RISK HYDROLOGIST

Department of Environmental Protection

2020 - 2025

- Conducted flood risk assessments that informed local zoning laws and land-use regulations.
- Developed and maintained GIS-based floodplain mapping systems for emergency management.
- Collaborated with local governments to design flood mitigation projects, reducing risk by 25%.
- Presented findings to stakeholders, ensuring community understanding of flood risks.
- Utilized HEC-RAS and HECHMS for hydraulic modeling of flood scenarios.
- Authored reports that guided state policies on floodplain management and mitigation.

HYDROLOGIST

City Flood Control Office

2015 - 2020

- Assisted in the analysis of historical flood data to improve forecasting accuracy.
- Conducted field surveys to collect data for floodplain delineations.
- Supported public outreach efforts to educate communities about flood risks.
- Utilized hydrological models to evaluate the effectiveness of floodplain restoration projects.
- Collaborated with engineers to design flood defense systems for vulnerable areas.
- Prepared technical documentation for grant applications securing funding for flood resilience projects.