

Pamela A. Green

Providence, RI, USA | pg@pamelaagreen.com | pamelaagreen.com | [LinkedIn](#)

CAREER PROFILE

Water and climate scientist with 20 years experience leading research on threats to freshwater resources, climate resilience, and sustainable water futures from landscape to global domains; works with stakeholders across NGOs, international development, government, industry, and academia. Designs and builds science-based tools to guide decision-making in policy, sustainable investments, and strategic planning for sustainable growth that safeguards water and natural resources. Led cross-disciplinary teams on projects up to \$2 million; secured \$5 million in project funding over 10+ years as proposal lead/co-lead; published 50+ science articles, including high-impact journals.

Core competencies include Water and Climate Research, Corporate/Finance Risk, Collaborative Leadership & Multi-stakeholder Engagement, Research Design & Development, Spatial Data Science, Science Communication & Guidance, Supervisory & Project Management, Python, PostGIS, PostgreSQL, GDAL/OGR

CAREER HIGHLIGHTS

- Built proof-of-concept water and climate risk tool for an S&P 500 finance technology company serving ~8,000 global investment clients and over 200,000 individual users
- Optimized impact investing process leading to €1.8 billion in sustainable asset selection for pension fund provider serving 4.3 million participants by developing custom science-based metrics aligned with UN Sustainable Development Goals
- Designed and built framework mapping sustainable water opportunity locations worldwide to guide private sector engagement in the expanding water and climate solutions market

PROFESSIONAL EXPERIENCE

SLR Consulting, Boston, MA

2024-Present

Global consultancy providing expert guidance in climate resilience and water management, specializing in data-driven solutions to enhance water security and sustainability.

Climate Resilience Scientist, 2024-Present

Leads water & climate resilience initiatives, stakeholder engagement, manages hydrologic investigations, field data collection, and scenario analysis for sustainable water solutions.

- Spearheading a multi-team business initiative to incorporate water risk assessments into our climate resilience service offerings
- Led coastal and inland flood resilience projects managing a team of water resources engineers and planners for flood risk site assessment, impact analysis, benefit-cost analysis, and development of sustainable design alternatives for climate resilience
- Led Climate Action Plan development, coordinating public outreach and integrating research with agency CAP needs, achieving effective emission goals and climate risk assessments

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TerraBlue Science LLC, Providence, RI

2023-Present

Sole proprietorship, environmental consulting group offering scientific expertise and bespoke tools for water & climate risks, sustainable water management, and nature-based solutions.

Principal Water and Climate Scientist, 2023-Present

Subject matter expert in water and climate science; develops sustainability metrics for diverse clients; bridges scientific insights with practical tools for sustainable corporate and investment decisions; expertise in translating scientific research into real-world solutions.

- Designed and built framework mapping sustainable water opportunity locations worldwide to guide private sector engagement in the expanding water and climate solutions market
- Built proof-of-concept water and climate risk tool for an S&P 500 finance technology company serving ~8,000 global investment clients and over 200,000 individual users
- Expanded income potential by \$100,000+ for consulting clients by providing proposal support in climate & land use change impacts on water resource vulnerability and resiliency

CUNY, Advanced Science Research Center and CCNY, New York, NY

2008-2023

Environmental sciences research group focusing on synthesis studies of the interactions of the water cycle, climate, biogeochemistry, and human activities.

Senior Research Scientist, Advanced Science Research Center, 2015-2023

Designed water & climate research, leading cross-cultural, inter-disciplinary teams; built functional metrics & frameworks for sustainable water management worldwide.

- Generated 60+ science-based metrics of severe climate risks impacting 40% of the world's population to guide UN human development goals by creating an analytic framework to forecast future water security and green & gray infrastructure impacts
- Developed first planetary freshwater boundary indicator advancing science knowledge on sustainable freshwater Earth system limits impacting one-third of world's population; landmark studies published in *Nature* portfolio journals
- Maximized workflow efficiency and team productivity on a \$1.7 million NASA project managing a 20-member research team to deliver a groundbreaking coastal risk tool

Research Associate / Hydrologist, Environmental Crossroads @ CCNY, 2008-2015

Conducted advanced research in human-climate-water cycle interactions; developed strategies for sustainable water management; built indicators for global water security.

- Developed trade-off tool for the World Bank to assess downstream flood loss and water quality costs, guiding climate resilience finance and water policy planning in Africa
- Informed strategies for sustainable urban growth via models to forecast water stress in rapidly growing major cities in developing nations, impacting 3 billion urban dwellers

EDUCATION

M.E. in Environmental Engineering, University of Florida, Gainesville, FL

B.S. in Zoology, University of Rhode Island, Kingston, RI