

Pamela A. Green

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

CAREER PROFILE

Principal Water and Climate Specialist with 15+ years experience leading international freshwater research focusing on water security, sustainable development, and water risk assessments; works with stakeholders across industry, government, finance, international development, NGOs, and academic research. Designs and builds science-based analytic tools and robust predictive models to inform sustainable development policy, sustainable investing, and water market solutions. Demonstrated success leading cross-disciplinary teams of 5-20 members in 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, Multi-stakeholder Engagement, Research Design & Development, Spatial Data Science, Science Communication & Guidance, Intercultural Competence, Grants/Proposals, Project Management, Python, R, 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 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 \$300+ billion expanding global water market

PROFESSIONAL EXPERIENCE

TerraBlue Science LLC, Providence, RI 2023-Present
Sole proprietorship, environmental consulting group offering scientific expertise and bespoke tools for assessing water & climate risks and green economy market opportunities. Provides proposal support for sustainable water management, water risks, 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.

- Built proof-of-concept water and climate risk tool for an S&P 500 finance technology company serving ~8,000 global investment clients and ~190,000 individual users
- Designed and built framework mapping sustainable water opportunity locations worldwide to guide private sector engagement in the \$300+ billion expanding global water market
- Raised industry knowledge on sustainable finance models for finance clients by providing subject matter expert guidance on quantifying climate risks to assets
- 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

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CUNY Advanced Science Research Center, New York, NY 2015-2023

Collaborative, interdisciplinary research center engaging research synergies across environmental sciences, nanoscience, neuroscience, photonics, and structural biology.

Senior Research Scientist, 2015-2023

Designed water & climate research, leading cross-cultural, inter-disciplinary teams; built functional metrics & frameworks for sustainable water management worldwide; lead/co-lead grant proposals up to \$3 million; published 50+ articles including high-impact journals.

- 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 SDGs
- Developed first planetary freshwater boundary indicator advancing science on sustainable freshwater Earth system limits impacting one-third of world's population; landmark studies published in *Nature* portfolio journals
- 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
- 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

CUNY Environmental Crossroads @ CCNY, New York, NY 2008-2015

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

Research Associate / Hydrologist, 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
- Advanced sustainable water strategies by co-authoring first global synthesis of water threats to humans and biodiversity, revealing \$3 trillion in cost savings from blending nature-based solutions and engineered infrastructure
- 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

ADDITIONAL EXPERIENCE (Industry)

Senior Manager / Spatial Data Scientist, Pacific Meridian Resources, Atlanta, GA

Founded East Coast U.S. branch, consistently achieving positive earnings annually

Environmental Engineer, Law Engineering & Environmental Services, Atlanta, GA

Generated U.S. regulatory compliance plans for stormwater and wetland restoration

EDUCATION

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

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