

PATRICK M. MARCHMAN, AICP CEP

Expert in Climate Adaptation, Resilience, Project/Program Management and Data Analysis

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PROFESSIONAL PROFILE

I am a program manager and planner with experience in project management, specializing in resilience, climate adaptation, climate-induced relocation and managed retreat, hazard mitigation, environmental planning and sustainability. I have managed local, state and regional programs with over \$1 billion in funding. I also founded an industry-leading group in the climate adaptation space and am building a climate practice for an internationally recognized firm with offices in several countries. I have a passion for connecting people and organizations to deliver solutions to the climate crisis and to build a more resilient and sustainable world.

WORK EXPERIENCE

CLIMATE RESILIENCE PRACTICE LEAD AND PROJECT MANAGER

2020 - present

Kleinfelder (Boston, MA, USA / remote)

Practice lead for Kleinfelder's climate resiliency services, with operations across the United States as well as Australia and Canada. Deliver climate resiliency projects and contribute to the rapid growth of Kleinfelder's Climate Change practice, helping clients understand and manage their risks from increased flooding, heat, and other climate hazards.

- Write strategic plan for the growth and expansion of the climate practice. Manage internal climate community of practice. Develop strong connections with environmental permitting and historic preservation practices as well as create and grow internal networks of urban planners to support resilience and adaptation planning.
- Deputy project manager for the development of a climate resilience plan for Long Beach Island in New Jersey; project manager, high-level advisor and planner for a range of other projects including park planning, coastal access and dune reconstruction, vulnerability assessments and advising small communities on options to deal with rising seas.
- Develop project/task technical approaches, scopes, and fees for proposals.
- Contribute to the visibility of climate practice through participation and leadership in professional organizations and events.

INDEPENDENT CONSULTING (Remote/Virtual)

2020 – present

Various Clients and Partners

- Senior Mentor to the Resilience Innovation Hub, an accelerator in the resilience space. Provide guidance to emerging companies as well as guidance in strategic alliances, partnerships and immediate opportunities. Organize national panels and networks.
- Advised organizations including Munich Re and the National Academies of Science on climate relocation and hazard mitigation
- Contributed to development of [Climate Change How-To Guide for Industry and Professional Associations](#) through the British Columbia Council for International Cooperation. Provided expert review for Engineers and Geoscientists BC climate policy.

SENIOR HAZARD MITIGATION PLANNER

2018 - 2020

Michael Baker International (Kansas City, MO, USA)

Technical project lead for \$125 million Community Engagement and Risk Communication program (CERC), advancing disaster risk reduction and resilience in FEMA Region VIII (Kansas, Missouri, Nebraska and Iowa).

- Developed pioneering commercial property buyout strategy responding to repeated flooding of a Des Moines, IA suburb.
- Organized multi-agency workshop on resilient watershed planning. Developed databases for regional flood map data.
- Developed comprehensive national hazard mitigation funding guides to help communities navigate funding processes.
- Through focus on customer service, fostering a team-oriented approach and becoming a trusted advisor to Region VII, brought quarterly contract evaluation scores for the region to first nationally within six months.

WORK EXPERIENCE (continued)

ENVIRONMENT AND REALTY PROGRAM MANAGER AND OTHER POSITIONS

2006 - 2020

U.S. Government - Federal Highway Administration, Federal Emergency Management Agency, and others (Various Locations)

Progressively responsible environment-related positions with various agencies in the U.S. government, culminating in program manager role supporting over \$1.11 billion of Federal spending yearly. Specific agencies included:

- Federal Highway Administration (Lansing, MI): Environment and realty program manager responsible for \$1.11 billion (FY 2018) Federal Aid Highway Program in Michigan. Conducted climate vulnerability assessments in cooperation with Michigan Department of Transportation. Lead acquisition review for over 500 parcels in Detroit for the Gordie Howe International Bridge.
- Bureau of Ocean Energy Management (Herndon, VA): Led NEPA document preparation for renewable energy activities on Outer Continental Shelf. Used ArcGIS to model hypothetical oil spill impacts to bird and shoreline habitat in Gulf of Mexico.
- Federal Emergency Management Agency (Arlington, VA): Project manager for climate change adaptation toolkit. Used ArcGIS Geoportal and HAZUS-MH in support of national disaster response. Intergovernmental Affairs Specialist for field response.
- Maritime Administration (Washington, DC): NEPA project manager for several LNG deepwater port proposals.
- U.S. Army Reserve (Seattle, WA): Program manager for NEPA, natural and cultural resource programs for three states.

VOLUNTEER EXPERIENCE

CLIMIGRATION NETWORK (Remote/Virtual)

2019 - present

- Member of network leadership, serving on multiple committees to help set the strategic direction of the network.

AMERICAN SOCIETY OF ADAPTATION PROFESSIONALS (Remote/Virtual)

2017 - present

- Founded and lead the Climate Migration and Managed Retreat Member Interest Group for the American Society of Adaptation Professionals, featuring webinars with internationally recognized professionals.

THRIVING EARTH EXCHANGE (Remote/Virtual)

2017 - 2020

- Community Scientist supporting local efforts in Horry County, SC (Myrtle Beach) to identify innovative flood resilience strategies.
- Subject Matter Expert on the Resilience Dialogues for East Lansing (2017) and Anchorage (2018) supporting climate adaptation.

EDUCATION AND CERTIFICATIONS

- **Master of Marine Affairs/Certificate in Environmental Management**, University of Washington, Seattle, WA.
- **Bachelor of Business Administration in Decision Sciences**, Georgia State University, Atlanta, GA.
- **(in process) Certification in Futures Studies**, Center for Futures Intelligence and Research, Tamkang University, Taipei, Taiwan.
- **American Institute of Certified Planners, 2011-present. Certified Environmental Planner, 2016**, American Planning Association.

SELECTED PUBLIC SPEAKING AND PUBLICATIONS

- Host of ASAP's Climate Migration and Managed Retreat webinar series, available on [YouTube](#) (2019-present)
- Contributing chapter to forthcoming book "*Global Voices on Climate Relocation*" (estimated publication date in 2021).
- Featured guest on several podcasts ([Radio Ecoshock](#) (October 2019), [EcoRadio KC](#) (January 2020), [FloodTalks](#) (March 2020)).
- Lead author, "*Planning Relocation in Response to Climate Change: Multi-Faceted Adaptations*", *Planning Theory & Practice*, Volume 21 (January 14, 2020).
- Co-author, "*Focusing Methodology for Streamlining Programmatic EIS Preparation*", 2014.

SKILLS

Software skills: MS Office (expert), ArcGIS (proficient), SAS (proficient), Business Objects (proficient), SQL Server (proficient).

Other skills: Project management, program management, data analysis, scenario analysis, writing, public speaking, communications.