

Terra R. Edenhart-Pepe

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- Visionary leader with an interest in environmental planning, disaster management, climate change, & water resources
- 10 years of operations and management experience
- A track record of intellectual rigor and academic achievement

EDUCATION

University of Pennsylvania

Master of Environmental Studies, May 2019

Certificate Geographic Information Systems (GIS) and Spatial Analysis

North Carolina State University,

Bachelor of Landscape Architecture, May 2005

Recipient of the NCSU Landscape Architecture Book Award

PROFESSIONAL EXPERIENCE

Project Lead

May 2019 – Present

NASA | SSAI, DEVELOP

- Leading team efforts and coordinating client and stakeholder demands for disasters and water resources projects
- Assessing emergency preparedness to improve public safety by identifying resource and data gaps

Environmental Science Instructor

Jan 2019 – May 2019

University of Pennsylvania

- Taught recitations for 200 students and developed materials for a wide variety of environmental science subject matter

Director

Feb 2014 – Jun 2018

Studio I Bryan Hanes I Urban Design

- Managed staff and scope, timelines, budgets, schedule and deliverables for complex, multi-year projects
- Synthesized, interpreted, and prepared technical environmental reports and land management plans

Manager

Jul 2012 – Feb 2014

Philadelphia Art Center

- Trained staff to perform emergency procedures, classroom instruction, and other required functions

Communications Contractor

Oct 2012 – Oct 2013

East Coast Greenway Alliance

- Developed strategic interagency growth strategy
- Increased Mid-Atlantic trail system user engagement by 30%

Co-founder

Jan 2010 – Dec 2013

Roots First Design, LLC

- Launched landscape design/build firm and managed staff, subcontractors, and volunteer groups of 30 individuals

PROJECTS

- **FLuME:** innovative machine learning model that estimates flood and increases emergency warning time using Python, PyTorch packages, stream gauge, and NASA Earth observation data
- **Climate Change Adaptation on Yap, Micronesia, Independent study:** Spatial analysis of climate change impacts to small island developing nations using ArcGIS
- **Infrastructure Vulnerability to Storm Events:** Hazard assessment and spatial analysis of water and electric power infrastructure failure in Puerto Rico using ArcGIS

ADDITIONAL TRAINING

- NASA ARSET Disasters Workshops
- The Work of Edward Tufte: Presenting Data and Information
- Software Carpentry: Version Control with GIT and Python Programming
- Master of Urban Spatial Analytics, University of Pennsylvania: R programming Master Class, sponsored by Socrata and The Penn Institute for Urban Research

PUBLICATIONS & CONFERENCES

- 2018 *International Small Islands Studies Association*, Waddenacademie, "Spatial Analysis of Climate Change Adaptation on Yap, Micronesia"
- Context Magazine, American Institute of Architecture, "Green Infrastructure in Philadelphia: The Reading Viaduct Rail Park."

COMMUNITY INVOLVEMENT

- ArcGIS mapping volunteer, Puerto Rico Disaster Relief Map-a-thon
- Co-founder, Philadelphia Instructional Spanish Cooperative (PISCo)
- Group leader, Ragnar Relays (multiple events)
- Safety Coordinator, Back-On-My-Feet, 20-in-24 annual running event
- Naturalist Docent, Bowman's Hill Wildflower Preserve

SOFTWARE EXPERTISE

Adobe Creative Suite
ArcGIS
MS Office Suite
R
Python