

# **Janey Camp**

**Research Associate Professor of Civil and Environmental Engineering at Vanderbilt University**

Nashville, TN, US

Expert on climate change and interactions of nature and infrastructure.

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## **Biography**

Camp's research work ranges from development of new methodologies for enterprise risk management to development of a spill management information system (SMIS 2.0) which links an advanced hydrodynamic and spill model with a geographic information system (GIS) interface. Camp is also interested in the impacts of climate change on civil infrastructure including freight transportation structures and facilities which led to her helping organize a national summit focused on this topic in June 2011 at Vanderbilt University.

Camp also sees the value of integrating GIS in pre-secondary education and is working with Metro Nashville Public Schools to integrate GIS into the Science, Technology, Engineering and Math (STEM) Academy curriculum. Another area of research focus is involved with include a study of the impacts and “true costs” of flooding from high intensity, short duration precipitation events as may be seen in the future due to climate change; the combination of social, ecological, and economic factors to measure consequences of such events; and land use management techniques and policies to manage flood events through mitigation or adaptation efforts.

Camp is one of several researchers involved in an interdisciplinary project to investigate the extent to which environmental stressors may prompt migration or adaptation in coastal low-lying areas; a project that combines risk management, GIS, environmental hazard mapping and modeling along with social science studies of human behavior and coupled human and nature interactions.

Camp is a licensed civil engineer in the state of Tennessee

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## **Areas of Expertise**

Global Warming, Land use, GIS, Precipitation, Stem, Flooding , flood management, Stem Education in High Schools, Infrastructure Management, Hydrologic and Hydrodynamic Modeling, Climate Change and the Impact on Flooding, Gis for Demographic Studies, Risk Management, Climate Change Adaptation, Human Behavior, floods, coastal flooding, Environment, Infrastructure, STEM curriculum, Climate Change

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## **Affiliations**

American Society of Civil Engineers (ASCE), American Society of Engineering Education (ASEE), American Water Resources Association (AWRA), Association of State Floodplain Managers (ASFM), Engineers Without Borders (EWB), Tennessee Society of Professional Engineers (TSPE)

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## **Education**

**Vanderbilt University**

Ph.D. Environmental Engineering

**Tennessee Technological University**  
M.S. Civil and Environmental Engineering

**Tennessee Technological University**  
B.S. Civil and Environmental Engineering

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## **Accomplishments**

**Certified Floodplain Manager**  
2017 to present

**Hazus Certified Professional**  
2015 to present

**Certified GIS Professional**  
2014 to present

**Licensed Professional Engineer**  
2010 to present

**2019 Outstanding Young Alumnus**  
Tennessee Technological University, presented by the Tennessee Tech Alumni Association (one of the highest honors bestowed on anyone by the University)

**2018 ASCE Outstanding Reviewer**  
ASCE Journal of Infrastructure Systems

**2018 Organization of Black Graduate and Professional Students (OBGAPS)**  
Distinguished Faculty Award, May 6, 2018

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