

# **Diane M. Styers**

**Associate Professor at Western Carolina University**

Cullowhee, NC, US

Diane Styers's current research focuses on analyzing ecosystem structure and function and examining changes over space and time.

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## **Biography**

Diane is an Associate Professor in the Department of Geosciences and Natural Resources at WCU. She uses remote sensing and geospatial approaches to analyze patterns of social and ecological processes that drive landscape changes affecting earth's resources. Her current research focuses on analyzing ecosystem structure and function and examining changes over space and time, particularly in response to natural and human disturbances. This information will help support her ultimate goal of mapping, quantifying, and valuing ecosystem services. Diane's areas of expertise include: LiDAR data analysis, object-based image analysis (OBIA), MODIS and Landsat phenology and other time series analysis, multi-sensor integration, forest ecology (structure and function), human ecology mapping, air pollution effects on forest ecosystems, and dendroecology.

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## **Industry Expertise**

Research, Education/Learning

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## **Areas of Expertise**

Human Ecology Mapping, Multi-Sensor Integration, LiDAR Data Analysis, Object-Based Image Analysis (OBIA), Forest Ecology

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## **Affiliations**

American Association for the Advancement of Science, Association of American Geographers, Ecological Research as Education Network

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## **Event Appearances**

**Using National Ecological Observatory Network (NEON) open-access nested-plot vegetation datasets to teach biological diversity and spatial scale concepts**

Ecological Society of America 105th Annual Meeting

**Macroscale Ecology in the Classroom: An EREN Partnership Using NEON Data**

Northeast Natural History Conference

**Utilizing a remote sensing derived NDVI normal dataset and vegetation field data to assess post-fire effects and ecosystem recovery in the southern Appalachians**

Association of Southeastern Biologists 80th Annual Meeting

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## **Education**

**Auburn University**

Ph.D. Forestry and Ecology

**Georgia State University**

M.A. Geography

**University of North Carolina, Greensboro**

B.S. Human Development & Family Studies

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## **Accomplishments**

**Keynote Speaker Research Award**

22nd Annual Undergraduate Exposition

**Faculty Institute on Community Engagement Project Award**

Western Carolina University

**Community Engagement STAR Project Award**

Western Carolina University

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