Department of Atmospheric, Oceanic, and Earth Sciences!

George Mason University
Fairfax, Virginia, USA
Climate Dynamics and Geology
Geology Faculty

• **Dr. Paul Betka**: structural geology and tectonics

• **Dr. Geoff Gilleaudeau**: sedimentology and geochemistry

• **Dr. Linda Hinnov**: stratigraphy and paleoclimatology
Geology Faculty

• Dr. Giuseppina Mattietti: igneous petrology and volcanology

• Dr. Randy McBride: geomorphology and coastal geology

• Dr. Julia Nord: mineralogy, STEM education
Geology Faculty

• **Dr. Mark Uhen**: vertebrate paleontology

• **Dr. Stacey Verardo**: paleoclimatology and invertebrate paleontology
Graduate Degrees

Earth Systems Science MS Program

• Interdisciplinary degree shared with Department of Geography and Geoinformation Science (GGS)
• Focused on an understanding of Earth systems and their interactions (lithosphere, hydrosphere, atmosphere, biosphere)
• Emphasizes techniques from GIS to Field Geology
• Uniquely positions graduates in the Earth science workforce
• Vibrant and well-funded geology research opportunities
• [https://science.gmu.edu/academics/departments-units/atmospheric-oceanic-earth-sciences/earth-systems-science-ms](https://science.gmu.edu/academics/departments-units/atmospheric-oceanic-earth-sciences/earth-systems-science-ms)
Graduate Degrees

**Climate Science MS Program**

- Concentrations in Climate Data and Climate Modelling
- Research with top climate scientists from the Center for Ocean-Land-Atmosphere Studies (COLA)
- Emphasis on quantitative skills desired in the workforce
- Pioneering program on Earth’s climate, a critical topic of study for the 21st century

[https://science.gmu.edu/academics/departments-units/atmospheric-oceanic-earth-sciences/climate-science-ms](https://science.gmu.edu/academics/departments-units/atmospheric-oceanic-earth-sciences/climate-science-ms)
Graduate Degrees

Climate Dynamics PhD Program

• Research with top climate scientists from the Center for Ocean-Land-Atmosphere Studies (COLA)

• Emphasis on quantitative skills, collaborative work with world-renowned climate modelers, and access to state-of-the-art computation facilities

• Pioneering program on Earth’s climate, a critical topic of study for the 21st century

• [https://science.gmu.edu/academics/departments-units/atmospheric-oceanic-earth-sciences/climate-dynamics-phd](https://science.gmu.edu/academics/departments-units/atmospheric-oceanic-earth-sciences/climate-dynamics-phd)
Geology Areas of Research Focus

Coastal Geomorphology

Mineralogy and Petrology

Paleoclimatology and Paleoceanography
Geology Areas of Research Focus

Stratigraphy and Geochemistry

Structural Geology and Tectonics

Paleontology
Program Highlights

• Well-funded research across a range of Earth science disciplines
• GRA and GTA positions available!
• Faculty field studies conducted in remote localities across the globe
• Rapidly expanding research infrastructure and laboratory capabilities
• Regional partnerships with the Carnegie Institution for Science, the USGS, and the Smithsonian Institution
• Join one of the most diverse campuses in the United States
• Enjoy that the Washington DC metro area has to offer

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