

RICHARD FEDERMAN

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Rowan University: Department of Geography, Planning & Sustainability

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CURRENT POSITION

Full-Time Lecturer, Rowan University
Department of Geography, Planning & Sustainability

TEACHING EXPERIENCE

Rowan University	2008 - Present
Burlington County College	2009-2010
Kaplan Test Prep	2007-2010
Ocean County College	2006-2008

Courses Taught at Rowan University

EARTH, PEOPLE AND ENVIRONMENT * *each semester since Fall 2010*

A survey of human and physical geographical topics including Earth systems, plate tectonics, meteorology/climatology, evolution, cultural development, and key environmental issues. Since 2013 has incorporated Big History as a lens through which to view universal evolution.

THE GEOGRAPHY OF NEW JERSEY * *each semester since Fall 2011*

An introduction to the many facets of our home state's human and physical geography, including geologic provinces, land use patterns and decisions, human history, and cultural development. Emphasizes the regional nature of New Jersey's geography and persona.

QUANTITATIVE METHODS IN GEOGRAPHY * *annually since 2012*

Introduces students to the many important statistical methods, tests and techniques necessary to conduct research in geography and the sciences. A rigorous mathematical course that also stresses real world connections to geographic study.

ENVIRONMENTAL STUDIES: PHYSICAL PERSPECTIVES * *2015, 2017, 2018*

An in-depth look at the many environmental challenges we face today with an emphasis on physical processes and mathematical concepts. Topics include ecosystem management, ecotoxicology, fossil fuels, climate change and threats to biodiversity.

CULTURAL GEOGRAPHY * *annually 2012 - 2015*

PRINCIPLES OF EARTH SCIENCE * *2014 - 2016*

WORLD REGIONAL GEOGRAPHY * *2009 - 2012*

ON-LINE EARTH, PEOPLE AND ENVIRONMENT * *annually since 2014*

Other Courses Taught

GENERAL BIOLOGY	Burlington County College
INTRODUCTION TO GEOGRAPHY & EARTH SCIENCE	Ocean County College
PHYSICAL GEOGRAPHY	Ocean County College

CURRICULUM DEVELOPMENT

- Developed two online courses including more than ten hours of audio instruction. Taught 50+ students online each summer since 2014.
- Worked with Dr. John Hasse to develop curriculum and detailed course materials in order to bring a Big History framework to the course Earth, People and Environment.
- Wrote a 20-chapter course book for Earth, People and Environment utilized by GPS faculty.
- Developed complete curriculum for The Geography of New Jersey, including workshops, participatory activities, group projects, course content and exams.
- Incorporate visits to the Rowan Fossil Park and the Edelman Planetarium into my course curriculum each semester.

TEACHING EFFECTIVENESS & EVALUATION

The feedback I have received from students as well as from faculty observation has been consistently and unwaveringly excellent. Please see the attached documentation for additional details.

- Rowan Faculty Center for Excellence in Teaching and Learning *Hall of Fame (2015)*.
- Rated 4.90 or higher (1 to 5 scale) by students for teaching effectiveness across all rating categories seven times since 2015, including three times at 4.99 or higher!
- Consistently praised by students for caring, engaging, passionate approach to teaching.

RELEVANT EDUCATIONAL EXPERIENCE

Master of Science, Environmental Science and Policy

Johns Hopkins University, May 2000

My coursework at Johns Hopkins provided the educational foundation for effective instruction in the program of *Environmental and Sustainability Studies*.

Bachelor of Arts, Economics

Rutgers University, May 1988

RELEVANT PRIOR WORK EXPERIENCE

Environmental Resource Planner

New Jersey Pinelands Commission, 2000-2003

My time at the Pinelands Commission provided a broad understanding of land management and land use decision-making, as well as environmental policy and implementation, particularly with respect to New Jersey and the Pinelands Management Area. I was also tasked with numerous map-making assignments.

This experience informs or would inform my instruction in the program of *Environmental and Sustainability Studies* and the *Community and Environmental Planning* program.

NEW JERSEY GEOGRAPHIC ALLIANCE

In February, 2018 I was named New Jersey State Steward for Geography by National Geographic. This is both an honor and an opportunity. Keeping the Geographic Alliance at Rowan and bringing it back to the Department of Geography, Planning and Sustainability and the School of Earth and Environment will allow for fruitful future collaboration with National Geographic.

My Roles Within the New Jersey Geographic Alliance

- >> **Teacher:** *New Jersey's Geography Teacher's Workshops (2014-17)*
- >> **Educator:** Personally led activities for hundreds of 4th grade students utilizing National Geographic's *Giant Map of New Jersey*
- >> **Moderator:** New Jersey Geography Bee (2014-18)
- >> **Coordinator:** Geography Awareness Week, November 2017
- >> **State Steward:** Beginning March, 2018

THE ROWAN GEO CLUB

I have taken the previously defunct Rowan Geography Club and turned it into a vibrant student-faculty organization with dozens of active members, hundreds of Facebook followers, and a wide variety of environmental, service and academic events and activities every semester!

- **Chartered by Rowan SGA for first time in 2017-18.**
- **Hosts departmental functions such as Meet & Greet, holiday and year-end celebrations.**
- **Provides an opportunity for dozens of students each semester to experience the wonders of wilderness environments in New Jersey, Pennsylvania and New York.**
- **Plans and hosts academic and cultural events including the Rowan Geography Travel and Adventure Series as well as the Brown Bag Seminar Series.**
- **Supports university functions and institutions such as the Rowan Fossil Park and the Philadelphia Science Fair through volunteerism.**
- **Contributes to community educational and environmental causes.**

PRESENTATIONS

- **"How Physical Geography Has Shaped Our State's Past, Present & Future" Alliance for New Jersey Environmental Education, January, 2018**
- **"The Appalachian Trail: One Man's Journey" LL Bean, Marlton NJ, October 2017.**
- **"New Jersey's Physical and Human Geography" New Jersey Science Teachers Convention, October, 2017.**
- **"How Physical Geography Has Shaped Our State's Past, Present & Future" Duke Farms, March, 2017.**
- **"The Big History of New Jersey" New Jersey Earth Science Teachers Association, March, 2016.**

- Panel Discussion participant at the International Big History Association Conference at Villanova University, July, 2018.
- “The Appalachian Trail: One Man’s Journey” Duke Farms, September, 2018.

PARTNERSHIPS & COLLABORATIONS

- Co-authoring an 8,000 word entry for The International Encyclopedia of Human Geography on “Big History” with Dr. John Hasse and Robert Flanagan.
- Contributed content to SEE events such as Darwin Day (2018) and The Sixth Extinction Walk (2017) in collaboration with Dr. Jennifer Kitson and Dr. Hasse.
- Worked with Dr. Kitson and Professor Megan Bucknum-Ferrigno to plan and implement a Philadelphia Urban Hike, April, 2017.
- Organized and oversaw the Rowan Geography Travel and Adventure Series with participants including Dr. Zachary Christman, Dr. Charles McGlynn, Dr. Kitson, and many other GPS faculty.
- Collaborated with the Rowan Fossil Park on Community Dig Day (2017-18).
- Serve, through my role as advisor to the Rowan GEO Club and by virtue of the relationships fostered with students, as an important source of student volunteers for the Fossil Park and the Rowan Paleo Lab.
- Developed content for and oversaw SEE exhibit at Rowan's Earth Day Festivities, April, 2018.
- Continue to partner with the Edelman Planetarium on environmental and educational initiatives.