Dr. Kevan B. Moffett

Hydrology, Ecohydrology, and Landscape Dynamics Research Group

School of the Environment *and* College of Arts and Sciences Washington State University Vancouver

https://labs.wsu.edu/ecohydrology/

EDUCATION	
2004-2010	Ph.D., Environmental Earth System Science (Hydrogeology), Stanford University
	Dissertation: Groundwater-vegetation-atmosphere interactions in an intertidal salt marsh
1998-2002	B.S., Environmental Engineering, Yale University
	Thesis: Comprehensive watershed assessment using a new GIS methodology in the Croton
	Watershed, a portion of the New York City drinking water supply system
EXPERIENCE	
2015-now	Assistant Professor of Environmental Hydrology, School of the Environment
	Washington State University Vancouver
2015- now	Adjunct Assistant Professor of Hydrogeology, Department of Geological Sciences
	The University of Texas at Austin, Jackson School of Geosciences
2012-2014	Assistant Professor of Hydrogeology, Department of Geological Sciences
	The University of Texas at Austin, Jackson School of Geosciences
2010-2012	Postdoctoral Scholar, Dept. Environmental Earth System Science
	Stanford University, School of Earth Sciences
2004-2010	PhD student, Research Assistant, Stanford Graduate Fellow, and Teaching Assistant
	Stanford University, School of Earth Sciences, Dept. Environmental Earth System Science
2001-2004	Engineer, GIS Specialist, and Modeler for New York City drinking water supply projects
	Malcolm Pirnie, Inc., White Plains, NY, environmental engineering consultants
2000	Forestry preservation and research summer volunteer
	Fundación Jatun Sacha, Ecuador
1998	Medical physics research summer intern
	The Cleveland Clinic Foundation, Cleveland, OH
AWARDS AND	RECOGNITIONS
2017	Early Career Publication Award, 2016, Ecohydrology, Highly Commended Paper "Alternative stable
	states of tidal marsh vegetation patterns and channel complexity" by Moffett and Gorelick (in top 4
	of the year), Wiley
2016	Editor's Citation for Excellence in Reviewing, 2015, Water Resources Research, American
	Geophysical Union

RESEARCH THEMES, GRANTS, AWARDS, AND MENTORING

Research Themes:

2014

2012

1998

2004-2007

- Urban Ecohydrology
- Intertidal Ecohydrology and Ecogeomorphology

Graduate Fellowship, Stanford University

nominee, Packard Fellowship in Science and Engineering

U.S. National team member, International Physics Olympiad

- Post-wildfire Ecohydrology
- Biophysics of Plant-Water Interactions

Research Grants and Projects:

see list at: https://labs.wsu.edu/ecohydrology/research/

Research Mentoring

see list of current and former advisees at: https://labs.wsu.edu/ecohydrology/people/

Outstanding Achievement in Mentoring, Stanford University Earth Sciences

Research Group Student Grants and Awards

see list at: https://labs.wsu.edu/ecohydrology/awards/

CURRENT COURSES TAUGHT

Every Fall: Natural Resources and Natural Hazards (ES 102) [PSCI]

Introductory undergraduate course for non-majors or pre-majors: Water, energy, earth, air, and biological resources and physical dynamics in the context of human use and the Earth System; introduction to these resources via examples from natural hazards, e.g., hurricanes, tornados, floods, droughts, wildfires, landslides, sinkholes, earthquakes, heat

waves, and pest/disease outbreaks.

Odd year Springs: Water and the Earth (GEO 315)

Mid-level undergraduate course in the School of the Environment BS degree core curriculum: Earth's hydrologic cycle, precipitation, surface water, groundwater, introduction to water quality, and human water use and sustainability. Includes

laboratory.

Senior Seminar (ES 491)

Upper-level undergraduate seminar given by weekly invited speakers on a range of

topics in Environmental Sciences and Health/Biomedical Sciences.

Even year Springs: Advanced Environmental Hydrology (ES 577) (including AMS connection)

Graduate-level survey of physical hydrology, aimed at any School of Environment or similar student needing a rigorous but broad background or refresher in hydrology, from introductory fluid mechanics to nonlinear hydrodynamics and hydrogeology. Principles, dynamics, interactions, and calculations of water flow in the environment (rivers, lakes,

groundwater, soil moisture, atmospheric boundary layer).

Any term (F/S/Su) upon request:

Special Problems (ES 499) [undergraduate]

Special Projects or Independent Study (ES 600) [graduate]

Master's Research (ES 700) Doctoral Research (ES 800)

SERVICE

Professional and Scholarly Organization Affiliations:

member American Geophysical Union member Geological Society of America

member Coastal & Estuarine Research Federation

member Society of Wetland Scientists

member American Society Of Limnology & Oceanography

Professional Service:

Peer reviewer of grants for: National Science Foundation, NIWR-USGS, etc.

Peer reviewer of journal articles for numerous journals in: hydrology, earth sciences, estuarine and coastal science, ecosystems, global change, meteorology, and remote sensing.

University and departmental service on various committees.

Service to students on numerous MS and PhD committees at WSU and other universities.

Outreach Activities and Projects

see list at: http://labs.wsu.edu/ecohydrology/edu-outreach/

PUBLICATIONS

see list at: https://labs.wsu.edu/ecohydrology/publications/

PRESENTATIONS

see list at: https://labs.wsu.edu/ecohydrology/presentations/