

# Alison W. Bates

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## EDUCATION

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### University of Delaware, Newark, DE (2016)

Ph.D. Marine Studies, Marine Policy Concentration, College of Earth, Ocean, & Environment

Dissertation: *Key challenges of offshore wind power: Three essays addressing public acceptance, stakeholder conflict, and wildlife impacts*

### William Smith College, Geneva, NY (2002)

Bachelor of Science in Biology, Environmental Studies/Public Policy Minor

## PUBLICATIONS

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**Bates, A.**, & Firestone, J. (2015). A comparative assessment of proposed offshore wind power demonstration projects in the United States. *Energy Research & Social Science*, 10, 192-205.

Firestone, J., **Bates, A.**, & Knapp, L. A. (2015). See me, Feel me, Touch me, Heal me: Wind turbines, culture, landscapes, and sound impressions. *Land Use Policy*, 46, 241-249.

**Bates, A.**, Firestone, J., Gordon, C.E., & Barkaszi, M.J. (n.d.). Effects of the Offshore Wind Industry on Marine Mammals: A summary of expected impacts, knowledge gaps and mitigation practices for the United States offshore wind industry. Review Article, *working paper*.

**Bates, A.**, Samoteskul, K., Callahan, J., & Firestone, J. (2012). Delaware Marine Spatial Planning, Offshore Wind Context. Final Report, NOAA/Delaware Sea Grant.

Madsen, J., **A. Bates**, J. Callahan and J. Firestone (2011). Use of Geospatial Data in Planning for Offshore Wind Development. *Geospatial Techniques for Managing Environmental Resources*. J. K. Thakur, Singh, S.K., Ramanathan, A., Prasad, M.B.K., Gossel, W. Heidelberg, Germany, Springer and Capital publication.

## TEACHING EXPERIENCE

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2015 – **Lecturer & Sustainability Program Manager**  
Present Department of Environmental Conservation; University of Massachusetts, Amherst

Courses:

NRC 297R Renewable Energy & Sustainability (new course, Fall 2015)

NRC 494 Sustainable Solutions for the Local Environment (new course, Spring 2016)

**Faculty Fellow**

2014 – Environmental Studies Department; Colby College, Waterville ME

2015

Courses:

ES 297A Marine Wildlife Conservation and Management (new course)

ES 297C Climate Change Policy (new course)

ES 242 Marine Conservation and Policy (Spring 2015)

ES 118 Environment and Society (Spring 2015)

**Teaching Assistant**

College of Earth, Ocean and Environment, School of Marine Science and Policy

University of Delaware, Newark DE

2014

Course:

MAST 662/462 Climate Change Policy, Equity, and Mitigation (Graduate and Undergraduate Sections)

RESEARCH EXPERIENCE

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- 2012 - **Graduate Student Researcher**  
2014  
Conduct research and supervise undergraduate research assistants  
University of Delaware Center for Carbon-free Power Integration  
Supervisor: Jeremy Firestone  
Project: Public perceptions of near-shore wind, coastal wind, and subsea electricity transmission
- 2010 - **Graduate Student Researcher**  
2012  
Conduct research and supervise undergraduate research assistants  
University of Delaware Center for Carbon-free Power Integration  
Supervisor: Jeremy Firestone  
Project: Marine spatial planning in Delaware: offshore wind context
- 2000 - **Undergraduate Student Research Intern & Independent Study**  
2001  
New York State Agricultural Experiment Station, Cornell University, Geneva, NY  
Supervisor: John Roberts  
Project: Utilization of waste products in the fruit juicing industry

SELECTED PROFESSIONAL EXPERIENCE

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- Jul 2015 – **University of Massachusetts Amherst, Department of Environmental Conservation, Amherst, MA**  
Present  
*Lecturer & Program Manager*
- Faculty affiliate with UMass Offshore Wind IGERT (NSF-funded research)
  - Design new curricula in the field of renewable energy and sustainability for undergraduates
  - Develop new undergraduate degree in sustainability with an energy focus (under progress)
  - Direct and supervise undergraduate student research
- Aug 2014 – **Colby College, Environmental Studies Department, Waterville, ME**  
June 2015  
*Faculty Fellow*
- Design new curricula and teach interdisciplinary courses for students in Environmental Studies, Science, and Policy: *Climate Change Policy* and *Marine Wildlife Conservation and Management* (Fall 2014)
  - Direct and supervise undergraduate student research in Environmental Studies
  - Participate in service activities, such as organizing interdepartmental lectures
- Aug 2010 – **College of Earth, Ocean, & Environment, University of Delaware, Newark, DE**  
Aug 2014  
*Research Assistant*
- Design and implement quantitative analysis of the spatial and economic conflict between offshore wind on commercial fishing in the mid-Atlantic region, United States
  - Develop and facilitate interviews and representative survey with residents of Delaware and New Jersey regarding coastal wind facilities and proposed offshore wind projects and transmission facilities
  - Coordinate, research, and assemble Marine Spatial Planning project for Delaware, emphasizing the potential for offshore wind development
  - Extensive research on impacts of offshore wind on marine mammals and ecological processes
- Oct 2012 – **Senator Chris Coons, Wilmington, DE**  
May 2013  
*Energy Fellow*
- Support energy and electricity policy events throughout the State of Delaware
  - Review and summarize offshore wind leasing regulations through interagency outreach and review of federal documents

## Alison W. Bates

Aug 2005 – **Southern California Mountains Foundation, Big Bear, CA**

Aug 2010 *Deputy Director*

Oversee operations and management of a mid-sized 501(c)3 nonprofit organization promoting environmental education, citizen stewardship and youth advocacy

- Managed three organization departments, including two major visitor centers
- Developed and implemented curricula for post-secondary, secondary, and elementary students
- Developed annual operating budgets for programs and general operations
- Implemented partnerships with local, state, and federal governments; businesses and service organizations; and nontraditional interest groups
- Established community projects for reforestation, native plants, and wildlife monitoring
- Identified, authored, and secured large grant proposals to support operations and programs

Sept 2003 – **Thousand Pines Outdoor School, Crestline, CA**

Jun 2005 *Program Director*

- Facilitated recruitment, interviewing, hiring and training of 20 staff annually
- Managed staff and program activities at an outdoor science school for underserved students
- Development and oversight of science curricula

Jun 2000 – **New York State Agricultural Experiment Station, Cornell University, Geneva, NY**

Aug 2001 *Research Intern*

- Conducted research in utilizing waste products in the food industry
- Development of laboratory techniques in an industrial facility and research laboratory
- Preparation of written results for presentation and publication

## ACADEMIC AND PROFESSIONAL AWARDS

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2014 Magers Family Fellowship, Dissertation Research

2013 **Poster Presentation:** Accounting for Commercial Fisheries in Offshore Wind Development. Presented by co-author John Madsen to the American Wind Energy Association Annual Offshore Wind Conference, Providence, RI. *Honorable Mention in Project Development & Permitting*

2011 **Poster Presentation:** Use of Marine Spatial Planning to Identify Offshore Wind Locations in the United States, presented at the European Wind Energy Association Offshore Wind Conference; Amsterdam, Netherlands. *Nominated for Best Poster*

2011 Excellence in Student Research Award: Delaware Sea Grant

2011 Membership with the Golden Key International Honour Society

2010 University of Delaware Department Fellowship: School of Marine Science and Policy

## PRESENTATIONS AND ACTIVITIES

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2016 **Research Talk:** A comparative assessment of proposed offshore wind power demonstration projects in the United States. Presented at the Association for Environmental Studies & Sciences Annual Conference June 2016, Washington DC.

2015 **Research Presentations:** Various research presentations to students and faculty at Colby College and the University of Massachusetts, Amherst Offshore Wind Graduate Research Group

2014 **Plenary Presentation:** Public Acceptance of Transmitting Electricity Offshore. Presented to the American Wind Energy Association Offshore Wind Conference, Atlantic City NJ

## Alison W. Bates

- 2014 **Poster Presentation:** Local Community Acceptance of in-View Offshore Wind Power Demonstration Projects. Presented to the American Wind Energy Association Offshore Wind Conference, Atlantic City, NJ
- 2014 **Presentation:** Opportunities and Challenges of Offshore Wind Energy. Presented to Colby College Students and Faculty Lecture Series
- 2013 **Presentation:** Accounting for Commercial Fisheries in Offshore Wind Development. Presented by co-author Jeremy Firestone to the European Wind Energy Association Biannual Offshore Conference, Frankfurt, Germany
- 2013 **Presentation:** Offshore Wind Development and Commercial Fisheries. Presented to the Mid-Atlantic Fisheries Management Council, Wilmington, DE
- 2013 **Poster Presentation:** Accounting for Commercial Fisheries in Offshore Wind Development. Presented by co-author John Madsen to the American Wind Energy Association Offshore Wind Conference, Providence, RI
- 2012 **Poster Presentation & Participant:** SeaBASS Marine Bioacoustics Summer School: selected participant in intensive program at the Applied Research Laboratory at the Pennsylvania State University
- 2011 **Poster Presentation:** Use of Marine Spatial Planning to Identify Offshore Wind Locations in the United States, presented at the European Wind Energy Association Offshore Wind Conference, Amsterdam, Netherlands
- 2011 **Presentation and Workshop Co-Organizer:** Delaware Marine Spatial Planning: Marine Mammals, Sea Turtles, and Fisheries. Marine Spatial Planning Workshop, hosted by the University of Delaware, Wilmington, DE
- 2010 **Keynote Presentation:** *Youth Volunteerism: Perspectives from the National Children's Forest*, presented at the Association of Partners for Public Lands Conference, San Diego, CA
- 2010 **Guest Lecturer** University of Redlands Environmental Studies Program, Redlands CA
- 2009 **Keynote Speaker:** *Community Volunteerism*, KVCRC Public Radio and Television film premier, Redlands, CA
- 2009 **Presentation:** *Great Seeds Restoration Program: Youth Volunteerism at the Children's Forest*, presented to the Walt Disney Company, Orlando, FL
- 2009 **Guest Lecturer**, Pepperdine University MBA Program, Malibu CA
- 2006 **Agency Representative:** US Forest Service Junior Forest Ranger Launch, Denver CO
- 2005 **Participant:** Forestry Institute for Teachers academic training program, Quincy, CA
- 2001 **Poster Presentation:** *Utilization of Dried Apple Pomace as a Press Aid in Berry Juicing*, presented at the Institute of Food Technology Annual Food Exposition, New Orleans, LA

## PROFESSIONAL MEMBERSHIPS AND ASSOCIATIONS

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- Association for Environmental Studies and Sciences
- Women of Wind Energy
- The Coastal Society
- The National Association of Interpretation

SPECIALIZED SKILLS

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**Specialized computer proficiency** in ArcGIS Spatial Analysis and Models, STATA statistical analysis, Filemaker Pro & MS Access databases, Salesforce CRM

**Grant writing** for program and research support: Federal, State, foundation, and corporate proposals

**Data analysis** of large, complex data sets

**Leadership and Management** of staff, including training and development of students and employees with diverse backgrounds

**Public speaking** experience with varied audiences

**Volunteer program** development and coordination for youth, adult, and underserved populations

SERVICE

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- 2015            **Student Research Coordination:** coordinate student research proposals for Colby's Green Crab Mitigation Program
- 2013            **Student Representative:** Marine Policy Faculty Hiring Committee
- 2012-2013     **President:** American Wind Energy Association Graduate Student Association
- 2011-2014     **Treasurer, Community Garden Chair:** University of Delaware Food and Garden Policy Committee
- 2011            **Volunteer:** American Wind Energy Association Offshore Wind Conference, Baltimore, MD
- 2011            **Peer Leader:** Graduate Student Connect program for incoming students, University of Delaware
- 2010            **Volunteer:** American Wind Energy Association Offshore Wind Conference, Atlantic City, NJ
- 2005-2010     **Volunteer:** U.S. Forest Service, Big Bear Lake, CA