

# Maureen Correll

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## Education

**The University of Maine**, Orono, ME. PhD Candidate, Ecology and Environmental Science, GPA 3.8/4.0  
Dissertation Title: The Biogeography of Tidal Marsh Communities in the Northeastern United States  
Advised by Dr. Brian J. Olsen and Thomas P. Hodgman, M.S.  
Committee members: Dr. Steve Sader, Dr. Brian McGill, and Kathleen O'Brien, M.S.  
Expected graduation date: May 2015

**New England Complex Systems Institute**, Cambridge, MA. Complex Physical, Biological, and Social Systems Modeling, 2013

**Utah State University**, Logan, UT. Fall 2006. Additional Coursework, 9 credit hours. GPA 3.85/4.0

**The College of William and Mary**, Williamsburg, VA. B.S. in Biology, Class of 2003

## Professional Experience

**The University of Maine, Orono, ME** *Graduate Research Assistant / SHARP Survey Field Coordinator* Fall 2010-Present

- Organize and implement a large-scale survey effort from Maine to Virginia for the Saltmarsh Habitat and Avian Research (SHARP) Program, a large-scale collaborative group investigating Nelson's sparrow, saltmarsh sparrow, seaside sparrow, willet and clapper rail population, breeding, and conservation ecology
- Manage and train 20+ collaborators from different conservation agencies for additional survey data contribution
- Balance \$70,000 annual budget for field season use including travel, tech wages and equipment purchasing
- Hire, train, and supervise up to 10 field technicians yearly in National Marshbird Monitoring Protocol and vegetation survey protocols
- Manage and train 20+ collaborators from different conservation agencies for additional survey data contribution
- Maintain project website – [www.tidalmarshbirds.org](http://www.tidalmarshbirds.org)
- Conduct GIS analyses using Arc10 package for use in Saltmarsh Habitat and Avian Research Program setup
- Produce annual and project-wide reports on research findings for distribution to collaborators

**The Arctic Landscape Conservation Cooperative** *Research Intern* Summer – Fall 2014

- Author a needs assessment for stakeholders along the Beaufort Sea and Chukchi Coast, AK for a climate change visualization tool, including literature review and summarization of interviews with coastal community members and arctic area managers
- Facilitate interviews with 15 Kaktovik, AK residents about long-term landscape and climate change in conjunction with the Arctic Borderlands Traditional Ecological Knowledge Cooperative
- Conduct informal interviews about needs for a coastal change visualization tool with coastal arctic stakeholders, including representatives from the Bureau of Land Management (BLM), National Park Service (NPS), United States Fish and Wildlife Service (USFWS), Alaska Department of Natural Resources (ADNR), Kaktovik Inupiat Corporation (KIC), City of Kaktovik, and the Native Village of Kaktovik (NVK)
- Collect data for the Arctic National Wildlife Refuge through the Arctic Shorebird Demographic Network (ASDN) at the Canning River Delta field site, including shorebird nest search, monitoring, banding, and geolocator recovery

**The University of Maine, Orono, ME** *National Science Foundation IGERT Fellow* Fall 2012-Fall 2014

- Work in a collaborative group of archaeologists, earth scientists, ecologists, and economists to examine novel questions about adaptation to abrupt climate change (A2C2) using problem-based investigative techniques
- Develop, submit, and carry out a competitive and interdisciplinary grant proposal for the IGERT Collaborative Immersion Project (CIP) with other IGERT fellows. Working title: An Abrupt Tern of Events – detecting rapid system change the Gulf of Maine marine ecosystem
- Develop and complete a successful internship program with the Arctic Landscape Conservation Cooperative with the goals of facilitating A2C2 in stakeholders along the Beaufort and Chukchi Sea Coast, AK (see above)
- Produce a video summarizing dissertation work for a lay-audience: completed video may be viewed at <http://posterhall.org/igert2013/posters/346>
- Complete 15+ credit hours of specific A2C2 curricula to develop an interdisciplinary understanding of the social, economic, physical, anthropological, and environmental security aspects of climate change studies

- Mass Audubon Coastal Waterbird Program at Monomoy NWR, Chatham MA** *Crew Leader* 3/10-8/10
- Organized field effort for long-term conservation project concentrating on piping plovers, American oystercatchers and least terns in coastal Massachusetts, including daily resighting and monitoring of active breeders
  - Trained and supervised 4 seasonal technicians in shorebird nest search, monitoring, band resight and census protocol
  - Created and maintained field schedule for 5 person crew throughout field season
  - Managed site database (Access and Excel); supervised and proofed data entry; reported collected data regularly
  - Captured nesting adult common terns using Potter traps
  - Conducted fish watch stunts in common tern colony for diet composition data collection
  - Constructed and maintained fencing and exclosures for protection of waterbird breeding and staging areas
- Stanford University at Las Cruces Biological Station, Costa Rica** *Research Associate* 1/10-3/10
- Participated in long-term study investigating habitat use by birds and bats around Las Cruces Station, Costa Rica
  - Operated bird banding station at all field sites including mist net set up, maintenance and bird extraction
  - Identified and banded captured birds; assess birds for age, sex and condition using Pyle and MAPS protocol
- Columbia River Avian Predation Project/Oregon State University, Pasco, WA** *Crew Leader, Columbia Plateau* 3/09-8/09
- Organized field activities and schedule of project addressing piscivorous waterbird predation on salmonids in the Columbia River plateau, focusing on Caspian terns, double-crested cormorants, and American white pelicans
  - Led and trained crew in tern, pelican and cormorant colony monitoring including fish bill load ID, focal nest monitoring, band resighting, colony attendance and productivity counts
  - Produced weekly reports on site events and data synopses for distribution to project upper management
  - Managed and maintained site databases (Access and Excel); supervised and proofed data entry
  - Conducted aerial surveys of Mid-Columbia river and plateau for piscivorous waterbird presence and breeding
  - Captured and handled adult and juvenile Caspian terns; measured, banded, and released captured birds
  - Piloted motorboat in sites throughout Columbia plateau; supervised technicians in boat operation and maintenance
- Bio-West, Incorporated, Logan, UT** *Project Field Manager* 4/07-8/08
- Organized all field aspects for point count and nest study addressing effects of highway noise on resident and migrant birds around the Great Salt Lake, featuring nest success of American avocets, black-necked stilts and snowy plovers
  - Hired, trained and supervised seasonal technicians for point count and nest search surveys
  - Conducted 10-minute distance sampling point count surveys on 200+ points around the Great Salt Lake, requiring comprehensive identification knowledge of western north American birds by sight and sound
  - Surveyed sites for nesting shorebirds; monitored nests using egg floatation and behavioral observations
  - Communicated regularly with Management Area directors to coordinate field schedules and project goals
  - Wrote bi-monthly project update reports for distribution to Bio-West upper management
  - Organized and maintained electronic database of field site GPS locations, GIS files, and data spreadsheets
  - Conducted spatial analyses and produced field maps using ArcGIS9 package
  - Surveyed Bear River Bay from helicopter for waterfowl presence/abundance counts

**Publications** – Published and in press

JP Swaddle., MG Cathey, **MD Correll**, and BD Hodkinson. 2005. Socially transmitted mate preferences in a monogamous bird: a non-genetic mechanism of sexual selection. *Proceedings of the Royal Society of London B: Biological Sciences*. 272, p. 1053-1058.

H Loizi., **MD Correll**, A Gray, TE Goodwin, LEL Rasmussen, and BA Schulte, 2005. A Study of Chemotactile Behaviors by Male and Female African Elephants in Addo Elephant National Park, South Africa. *The Proceedings of the Symposium on Human-Elephant Relationships and Conflicts (Jayantha Jayewardene, ed.)*. Colombo, Sri Lanka. International Elephant Foundation & Biodiversity & Elephant Conservation Trust. p. 228.

BA Schulte, H Loizi, K Bagley, A Gray, L Stanley, **M Correll**, T Goodwin, P Brown, B Davis, W Dill, N Dowdy, A Hicks, R Morshedi, D Mwanza, and LEL Rasmussen. 2005. Elephant Chemotactile Communication and Conservation. *Journal of Elephant Managers Association*. 15:1, p. 16-23.

## **Publications** – In revision and review

Correll, M., Olsen, B.J., Hodgman, T.P, Wiest, W.A., and Sader, S.A. *In Revision*. Predicting tidal marsh communities via remote sensing: a potential tool for coastal conservation. *Wetlands*.

## **Grants and Fellowships**

North American Landscape Conservation Cooperative Unit, Summer 2014.....	\$110,473
Arctic Landscape Conservation Cooperative Unit, Spring 2014.....	\$2,500
University of Maine Graduate Student Government, Spring 2014.....	\$850
IGERT Collaborative Immersion Project Fund.....	\$7,290
IGERT Internship Fund, Summer 2014.....	\$5,000
University of Maine Graduate Student Government, Fall 2013.....	\$980
School of Biology and Ecology Travel Award, Spring 2013.....	\$500
University of Maine Graduate Student Government, Spring 2013.....	\$380
University of Maine Graduate Student Government, Fall 2012.....	\$425
Maine Association of Wetland Scientists Wetland Research Stipend, 2012.....	\$1,000
Green Lake Fund Fellowship, University of Maine, Academic Year 2012-2013.....	\$26,400
North American Ornithological Conference -Vancouver Student Travel Award, February 2012.....	\$300
University of Maine Graduate Student Government, Spring 2012.....	\$300
University of Maine Graduate Student Government, Fall 2011.....	\$623
University of Maine Graduate Student Government, Spring 2011.....	\$425
University of Maine Graduate Student Government, Fall 2010.....	\$289

## **Presentations & Invited Talks (\* indicates presenter)**

**MD Correll\***, WA Wiest, TP Hodgman, WG Shriver, C Field, CE Elphick, K O'Brien, and Brian J. Olsen. November 18, 2014. The Biogeography of Tidal Marsh Birds of the Northeast. *United States Fish and Wildlife Service, Fairbanks, AK*.

CS Elphick\*, C Field, M Huang, and **MD Correll**. 2014. Ecological indicators of wetland change: wildlife and plants. *Long Island Sound Tidal Wetlands Loss Workshop, Port Jefferson, NY*.

WG Shriver\*, WA Wiest, **MD Correll**, BJ Olsen, CS Elphick, TP Hodgman, October 7, 2014. The SHARP Sampling Framework: Inventory and Monitoring of Tidal Marsh Birds in the Northeast. *Joint Northeast and Southeast Partners in Flight Meeting, Virginia Beach, VA*.

TP. Hodgman\*, J Cohen, CS Elphick, A Kovach, BJ Olsen, WG Shriver, B Benvenuti, A Borowske, MA Conway, **MD Correll**, C Field, L Garey, R Kern, A Kocek, K Ruskin, S Roberts, E Shelly, JL Walsh, WA Wiest. October 7, 2014. SHARP: The Saltmarsh Habitat and Avian Research Program. *Joint Northeast and Southeast Partners in Flight Meeting, Virginia Beach, VA*.

**MD Correll\***, BJ Olsen, TP Hodgman, WA Wiest, WG Shriver, K O'Brien. September 27, 2014. A Regional Comparison of Obligate and Non-obligate Birds of the North Atlantic. *The American Ornithologist's Union, Estes Park, CO*.

**MD Correll\***, BJ Olsen, TP Hodgman, WA Wiest, and SA Sader. April 18, 2014. Predicting Tidal Marsh Communities via Remote Sensing: a potential tool for adaptive coastal conservation. *The Climate Change Institute's Borns Symposium, Orono ME*.

**MD Correll\***, BJ Olsen, TP Hodgman, WA Wiest, and SA Sader. April 15, 2014. Predicting Tidal Marsh Communities via Remote Sensing: a potential tool for adaptive coastal conservation. *NorthEast Association of Fish and Wildlife Agencies Annual Meeting, Portland, ME*.

**MD Correll\***, BJ Olsen, TP Hodgman, C Field. April 13, 2014. Poster. Noah's Flood or Sea-Level Rise? Exploring recent gradual and abrupt climate change in Atlantic coast tidal-marsh communities. *NorthEast Association of Fish and Wildlife Agencies Annual Meeting, Portland, ME*.

**MD Correll\***, S Heller\*, and A Ren\*. April 10, 2014. An Abrupt Tern of Events; the Common Tern as a possible indicator of rapid ecosystem change in the Gulf of Maine. *The Gulf of Maine Seabird Working Group Spring Meeting, Bangor, ME*.

**MD Correll\***, BJ Olsen, TP Hodgman, WA Wiest, and SA Sader. April 3, 2014. Predicting Tidal Marsh Communities via Remote Sensing: a potential tool for adaptive coastal conservation. *The University of Maine's Graduate Student Exposition, Orono, ME.*

**MD Correll\***. September 14, 2013. Coastal Communities in an Abruptly Changing Climate. *A2C2 IGERT Annual Meeting, Darling Marine Center, Damariscotta, ME.*

**MD Correll\***, BJ Olsen and TP Hodgman. August 15, 2013. Poster. Conservation from Orbit; predicting tidal marsh communities via remote sensing. *American Ornithologists Union Annual Meeting, Chicago, IL.*

**MD Correll\***, BJ Olsen and TP Hodgman. May 19-20, 2013. Poster. Abrupt Climate Change in Tidal Marsh Communities. *NSF IGERT Online Poster and Photo Competition 2013. Poster and video available at <http://posterhall.org/igert2013/posters/346>.*

**MD Correll\***, BJ Olsen and TP Hodgman. April 23, 2013. The Roles of Habitat Patch Size, Shape and Connectivity in Atlantic Coast Tidal Marsh Communities. *The Climate Change Institute's Borns Symposium, Orono ME.*

**MD Correll\*** March 25, 2013. The Biogeography of Tidal Marsh Birds in the Northeastern United States. *Maine Association of Wetland Scientists Annual Meeting, Hallowell, ME.*

**MD Correll\***, BJ Olsen and TP Hodgman, August 18, 2012. Predicting Tidal Marsh Bird Populations via Remote Sensing: A potential tool for coastal conservation. *North American Ornithological Conference V, Vancouver, BC.*

**MD Correll\***, BJ Olsen and TP Hodgman, April 12, 2012. Predicting Tidal Marsh Bird Populations via Remote Sensing: A potential tool for coastal conservation. *Graduate Student Expo (Natural Sciences), The University of Maine, Orono ME.*

**MD Correll\***, BJ Olsen and TP Hodgman. April 5, 2012. Predicting Tidal Marsh Bird Populations via Remote Sensing: A potential tool for coastal conservation. *The Climate Change Institute's Borns Symposium, Orono ME.*

**MD Correll\***. August 2, 2011. Tidal Marsh Birds in the Northeast – The Saltmarsh Habitat and Avian Research Program. *New England Waterbird Cooperators Meeting, Barnstable, MA.*

**MD Correll\*** and BJ Olsen. April 7, 2011. The Biogeography of Tidal Marsh Birds in the Northeastern United States. *The Climate Change Institute's Borns Symposium, Orono ME.*

**MD Correll\***, April 14, 2011. The Saltmarsh Habitat and Avian Research Program. *Penobscot Audubon Meeting, Bangor ME.*

**MD Correll\*** and TP Hodgman\*, February 15, 2011. The Saltmarsh Habitat and Avian Research Program. *Maine Department of Inland Fisheries and Wildlife, Bangor, ME.*

### **Awards and Recognition**

<b>Outstanding Presentation in the Natural Sciences, Graduate Student Expo, The University of Maine</b>	<i>April 2014</i>
<b>Graduate Student Spotlight, The University of Maine Graduate School</b>	<i>September 2013</i>
<b>Graduate Dean's Excellence Award, Extraordinary Service to Graduate Studies</b>	<i>April 2013</i>
<b>Graduate Student of the Month, The University of Maine Graduate School</b>	<i>December 2012</i>
<b>Outstanding Presentation in the Natural Sciences, Graduate Student Expo, The University of Maine</b>	<i>April 2012</i>

### **Service and Outreach**

<b>Graduate Student Government, The University of Maine</b>	<i>Fall 2011-present</i>
<i>President</i>	<i>Spr. 2012-Spr. 2013</i>
<i>Chair, Graduate Health Services Committee</i>	<i>Spr. 2012-present</i>
<i>Senator, Department of Ecology and Environmental Science</i>	<i>Fall 2011-Spr. 2012</i>
<i>Committee member, Graduate Health Services Committee</i>	<i>Fall 2011-Spr. 2012</i>

The Graduate Student Government (GSG) is a 501-3C non-profit organization with an over \$150,000 annual operating budget. This organization is run by an elected executive committee of seven graduate students from the student body, and operates separately from the University to enhance graduate activities on campus including an ~\$80,000/year independent grants program, annual Graduate Student Exposition, an Annual audit and selection of health insurance for all University-supported student

**Health Services Advisory Board, The University of Maine** Fall 2013 – present  
*Representative, Graduate Student Government*

The Health Services Advisory Board is a group of individuals with representatives from the undergraduate and graduate student body along with staff and faculty at the University of Maine. These members act as advocates for their representative parties in the selection of health care services and benefits at the University.

**Maine Audubon, Fields Pond Nature Center, Holden, ME** Fall 2013 – present  
*Volunteer*

**AcroYoga Club, The University of Maine** Fall 2013 –present  
*President, Graduate Student Chapter*

**Mainers United for Marriage, Portland ME** Fall 2012  
*Volunteer*

### Teaching Experience: Invited Lectures

**Wetland Ecology, The University of New England** *Guest Lecturer, “Tidal Marsh Communities of North America”* Oct. 2014  
**Avian Biology, The University of Maine** *Guest Lecturer, “Data Collection in Ornithology”* April 2013  
**Tidal Marsh Ecology, The University of Maine,** *Guest Lecturer, “Tidal Marshes of Argentina and New Zealand”* Nov. 2012  
**Wetland Ecology, The University of New England** *Guest Lecturer, “Tidal Marsh Ecology”* October 2012  
**Avian Biology, University of Maine** *Guest Lecturer, “Field Methods”* April 2011

### Teaching Experience: Instructor Positions

**Abrupt Climate Change, University of Maine** *Co-instructor* Fall 2013

- Co-developed, coordinated, and led graduate seminar series with three other graduate students about abrupt climate change across disciplines, including student assignment development, evaluation, and grading

**Introduction to Biology, University of Maine** *Teaching Assistant* Fall 2010-2011

- Led 3 sections of 20-student freshman level biology laboratories, including independent classroom instruction

**Organization for Tropical Studies, Wilson’s Botanical Garden, Costa Rica** *Visiting Naturalist* March 2010

- Instructed 30-person student group on basics of bird banding and tropical bird conservation

**Stoke’s Nature Center, Naturalist** Jan-April 2007

- Led 20-student day-long snowshoe hikes, focusing on natural history and resource conservation in northern Utah
- Presented to 20-30 student classrooms on Geology, Astronomy, Botany, and Ecology

### Professional Development: Teaching

“Using free-response questions to probe student thinking” Teaching Assistant Workshop, Maine Center for Research in STEM Education, March 2012

“Inquiry-based labs: Allowing students to be scientists, even in large courses on tight budgets.” Teaching Assistant Workshop, Maine Center for Research in STEM Education, February 2012

“Uses of Personal Response Systems (clickers) in the College Classroom” Teaching Assistant Workshop, Maine Center for Research in STEM Education, November 2011

“The Pedagogy and Practice of Grading,” Teaching Assistant Workshop, University of Maine Center for Excellence in Teaching and Assessment, January 2011

“Grading in Science and Mathematics: A workshop for STEM graduate teaching assistants,” Teaching Assistant Workshop, Maine Center for Research in STEM Education, February 2011

## **Professional Development: Research**

“National Climate and Atmospheric Research (NCAR) Command Language (NCL)” Programming Workshop, The Climate Change Institute, led by Mary Haley and Dennis Shea. April 23 – 25, 2014.

“Environmental Security Scenarios – Geoengineering” Webinar, Security and Sustainability Forum, moderated by Dr. Elizabeth Chalecki. February 4, 2014.

“Introduction to Innovation Engineering” Workshop, Maine Sustainability Solutions Initiative, presented by Angelina Marcolini, November 9, 2013.

“Using unmarked: an R package for fitting hierarchical models of species abundance and occurrence.” Webinar, United States Geological Survey, presented by Andy Royle and Richard Chandler, January 25, 2012.

“Estimating the geographic distribution of a species using presence-only records.” Webinar, presented by Paul Geissler, USGS, September 8, 2011.

## **Additional Experience**

<b>Research Assistant</b> Lincoln University, Christchurch, NZ	11/08
<b>Research Technician</b> , Max Planck Institute of Ornithology, Mornington Wildlife Sanctuary, Australia	8/06-11/08
<b>Research Assistant</b> Montana State University in Yellowstone National Park, MT	11/06, 1/08
<b>Research Technician</b> , The Wildlife Conservation Society and Teshekpuk Lake, AK	5/06-7/06
<b>GIS Technician</b> Geo/Graphics, Logan, UT	3/06 – 5/06
<b>Information Technician/Sleighdriver</b> Hardware Ranch Wilderness Management Area, Blacksmith Fork, UT	2/05 – 1/07
<b>Fisheries Technician</b> , Utah State University Fish Ecology Lab, Logan, UT	8/05-12/05
<b>Research Technician</b> , Lake Tahoe Urban Biodiversity project, South Lake Tahoe, CA	5/05-8/05
<b>Volunteer Research Assistant</b> UC Davis Spotted Owl Research Team, Yosemite National Park, CA	4/05, 6/05
<b>Environmental Health Specialist II</b> Fairfax County Health Department, Fairfax, VA	9/03 – 10/04
<b>Research Assistant</b> , Georgia Southern University in Addo Elephant National Park, Addo, South Africa	6/03-9/03
<b>Research Assistant</b> , Swaddle Lab at The College of William and Mary, Williamsburg, VA	1/02-5/03

## **Memberships and Affiliations**

<b>American Ornithologist Union</b>	2014-present
<b>International Association of Landscape Ecologists</b>	2014-present
<b>Phi Beta Kappa Honor Society</b>	2013-present
<b>The Waterbird Society</b>	2011-present

**Software Proficiency:** Microsoft Windows and Mac OS X operating systems; Microsoft Office Suite; ESRI ArcGIS 9 and 10 packages, ERDAS, Google Earth, FragStats, Pathfinder, MapInfo, Program R Studio

**Spoken Languages:** Intermediate written and conversational Spanish

**Programming Languages:** Program R, JAGS, Python including arcpy

**Certifications:** USFWS Bear Awareness and Firearm Safety Training (5/14), Institutional Review Board (IRB) Social and Behavioral Research Training (3/14), Wilderness First Aid & CPR (2/14), MOCC Motorboat Training (3/09), Southwestern Willow Flycatcher AZ Game & Fish Training (4/07), Advanced Open Water Diver (9/01)

**Hobbies:** ultimate frisbee, acroyoga, backpacking, skiing, glassblowing, horseback riding, scuba diving, stringed musical instruments