

# Brian J Olsen

Last updated: 7 Feb 2015

## Education

### **Doctor of Philosophy: Biological Sciences** (2007)

- Virginia Tech, Blacksburg, Virginia
- Certified in Higher Education by Virginia Tech's *Future Professoriate Program*

### **Bachelor of Science: Zoology** (2001)

- Juniata College, Huntingdon, Pennsylvania
- *Magna cum laude* (3.9/4.0)

## Research Interests

- The evolution of life histories, behavior, and phenotypic plasticity along environmental gradients
- The adaptive capacity of bird populations in a changing environment
- The evolution of reproductive isolation through breeding behavior & intraspecific signaling
- Tidal marsh conservation

## Professional Experience

- **Assistant Professor of Biology & Ecology**, 2011 to present, University of Maine, Orono, Maine
- **Assistant Professor**, 2011 to present, Climate Change Institute, University of Maine, Orono, Maine
- **Research Assistant Professor**, 2009 to 2010, Climate Change Institute, University of Maine
- **Research Assistant Professor & Lecturer**, 2008 to 2011, School of Biology & Ecology, University of Maine, Orono, Maine
- **Senior Lecturer & Graduate Faculty**, 2007 to 2008, School of Forest Resources, Pennsylvania State University, University Park, Pennsylvania
- **Predoctoral Fellow**, 2005-2006, Center for Conservation and Evolutionary Genetics, Smithsonian National Zoological Park, Washington, DC
- **Graduate Fellow**, 2004, Smithsonian Migratory Bird Center, Smithsonian National Zoological Park, Washington, DC
- **Environmental Educator**, 2001 to 2002, Schuylkill Center for Environmental Education, Philadelphia, Pennsylvania

## Adjunct Appointments & Research Affiliations

- **Research Associate**, 2009 to present, Smithsonian Conservation Biology Institute, National Zoological Park, Smithsonian Institution, Washington, DC
- **Adjunct Researcher**, 2009 to present, Biodiversity Research Institute, Gorham, Maine

## Museum & Curation Experience

- **Curator of Birds & Mammals**, 2007 to 2008, School of Forest Resources, Penn State
- **Trainer of Museum Assists.**, 2004 to 2007, Dept. of Fisheries and Wildlife Sciences, Virginia Tech
- **Vertebrate Museum Assistant**, 2000 to 2001, Biology Department, Juniata College

## **Peer-reviewed Articles** (^ indicates supervised student)

### *Manuscripts in Preparation (completed draft exists)*

1. Adams, EM<sup>^</sup>, KA Williams, **BJ Olsen**, DC Evers. Mercury levels in songbirds on migratory stopover at Key Biscayne, Florida during spring and fall. *In preparation for Ecotoxicology*.
2. Adams, EM<sup>^</sup> and **BJ Olsen**. Age, condition, and density-dependent effects affect songbird migratory stopover refueling rates across seven species. *In preparation for Behavioral Ecology*
3. Adams, EM<sup>^</sup> and **BJ Olsen**. Global climatic and local weather drivers of migratory phenology and local abundance. *In preparation for Ecology*.

### *Manuscripts in Review and Invited Revision*

1. Kern, RA<sup>^</sup>, **BJ Olsen**, WG Shriver. *In Review*. Influence of flooding and predation on tidal marsh sparrow nest-site niches. *Journal of Avian Biology*.
2. Cattrano, K<sup>^</sup>, N Perlut, **BJ Olsen**, and JD McCabe<sup>^</sup>. *In Review*. Increased social information does not benefit body condition of long-distance migrants during migration stopover. *Canadian Field Naturalist*.
3. Ruskin, KJ<sup>^</sup>, MA Etterson, TP Hodgman, **BJ Olsen**. *Invited Revision*. Non-adaptive differences in oviposition preferences of sister species: a case for neutral evolution. *Behavioral Ecology and Sociobiology*.
4. Walsh, J<sup>^</sup>, WG Shriver, **BJ Olsen**, KM O'Brien, AI Kovach. *Invited Revision*. Phenotypic variation across and avian hybrid zone: implications for species conservation. *The Auk: Ornithological Advances*.
5. Perlut, N, C Smith, **BJ Olsen**, D Grunzel<sup>^</sup>, T Lloyd-Evans, and T Dean. *Invited Revision*. A test of Bergman's rule: Black-capped Chickadees show latitudinal variation in wing length but not body mass across four degrees of latitude in eastern North America. *Wilson Journal of Ornithology*.
6. Davis, EW<sup>^</sup>, B Rolek, **BJ Olsen**. *Invited Revision*. Arthropod availability predicts presence of the Bay-breasted Warbler during a breeding season without spruce budworm outbreak. *Wilson Journal of Ornithology*.
7. Byrd, AJ<sup>^</sup>, **BJ Olsen**, DC Evers. *Invited Revision*. A continental bioclimatic envelope validation using demographic information from a portion of the common loon range. *Journal of Biogeography*.
8. McCabe, JD<sup>^</sup>, **BJ Olsen**. *Invited Revision*. Trade-offs between predation risk and foraging efficiency shape stopover communities of migrant landbirds. *The Auk: Ornithological Advances*.
9. Grunzel, DP<sup>^</sup>, **BJ Olsen**. *Invited Revision*. Longer distance migrant passerines are more averse to predation risk during migration. *Behavioral Ecology & Sociobiology*.
10. Correll, M<sup>^</sup>, **BJ Olsen**, TP Hodgman, WA Wiest, SA Sader. *Invited Revision*. Predicting Tidal Marsh Communities via Remote Sensing: A potential tool for adaptive coastal conservation. *Wetlands*.
11. **Olsen, BJ**, D Turcotte<sup>^</sup>, JD McCabe<sup>^</sup>, D Anderson. *Invited Revision*. Parallel patterns of urban boldness but divergence in territorial aggression among song sparrow populations. *Behavioural Processes*.
12. Adams, E<sup>^</sup> and **BJ Olsen**. *Invited Revision*. Using a hierarchical modeling framework to estimate abundance and detection bias in surveys of migrating animals. *Ecosphere*.
13. Greenberg, R, AG Wilson, **BJ Olsen**, B Ballentine, N Rotzel McInerney, RC Fleischer. *Invited Revision*. Geographic population structure and subspecific boundaries in a tidal marsh sparrow. *Conservation Genetics*.

### *Published Manuscripts*

1. McCabe, JM<sup>^</sup>, and **BJ Olsen**. *In Press*. Landscape-scale habitat availability, and not local geography, predicts migratory landbird stopover across the Gulf of Maine. *Journal of Avian Biology*.
2. Batz, Z<sup>^</sup>, **BJ Olsen**, J Dumont, F Dastoor, and MK Smith. *In Press*. Helping struggling students in introductory biology: a peer-tutoring program that maximizes the impact of resources. *CBE – Life Sciences Education*.
3. Robertson, EP<sup>^</sup> and **BJ Olsen**. 2015. (Cover Article) Behavioral plasticity for nest-building increases fecundity in marsh birds. *The Auk: Ornithological Advances* 132(1): 37-45. DOI: 10.1642/AUK-14-73.1.
4. Robertson, EP<sup>^</sup> and **BJ Olsen**. 2014. Density, sex, and nest stage affect rail broadcast survey results. *Journal of Wildlife Management*. DOI: 10.1002/jwmg.769

5. **Olsen, BJ**, R Greenberg, JR Walters, RC Fleischer. 2013. (Cover Article) Sexual dimorphism in a feeding apparatus is driven by mate choice and not niche partitioning. *Behavioral Ecology* 24(6):1327-1338. DOI: 10.1093/beheco/art071
6. Warner, SE<sup>^</sup>, WG Shriver, **BJ Olsen**, R Greenberg, and RJ Taylor. 2012. Feathers as indicators of mercury exposure in tidal marsh sparrows: Differences by age, feather type, and species. *Archives of Environmental Contamination and Toxicology* 63(1). DOI: 10.1007/s00244-012-9783-2
7. Greenberg, R, R Danner, **BJ Olsen**, and D Luther. 2012. High summer temperature explains bill size variation in salt marsh sparrows. *Ecography* 35(2):146-152. DOI: 10.1111/j.1600-0587.2011.07002.x
8. Etterson, MA, SN Ellis-Felege, D Evers, G Gauthier, JA Grzybowski, BJ Mattsson, LR Nagy, **BJ Olsen**, CM Pease, M Post van der Burg, and A Potvien. 2011. Modeling fecundity in birds: Conceptual overview, current models, and considerations for future developments. *Ecological Modelling* 222:2178-2190. DOI:10.1016/j.ecolmodel.2010.10.013.
9. Greenberg, R and **BJ Olsen**. 2010. Bill size and dimorphism in tidal-marsh sparrows: Island-like processes in a continental habitat. *Ecology* 91(8):2428-2436. DOI: 10.1890/09-1136
10. **Olsen, BJ**, R Greenberg, IA Liu<sup>^</sup>, JM Felch<sup>^</sup>, JR Walters. 2010. Interactions between sexual and natural selection on the evolution of a plumage badge. *Evolutionary Ecology* 24(4):731-748. DOI: 10.1007/s10682-009-9330-4
11. Greenberg, R, **BJ Olsen**, MA Etterson. 2010. Patterns of seasonal abundance and social segregation in inland and Coastal Plain Swamp Sparrow in a Delaware tidal marsh. *Condor* 112(1):159-167.
12. **Olsen, BJ**, R Greenberg, RC Fleischer, and JR Walters. 2008. Extra-pair paternity in the swamp sparrow, *Melospiza georgiana*: Male access or female preference? *Behavioral Ecology & Sociobiology* 63(2):285-294.
13. **Olsen, BJ**, JM Felch<sup>^</sup>, R Greenberg, and JR Walters. 2008. Causes of reduced clutch size in a tidal marsh endemic. *Oecologia* 15(3):421-435.
14. Liu, IA<sup>^</sup>, B Lohr, **BJ Olsen**, and R Greenberg. 2008. Macrogeographic vocal variation in subspecies of Swamp Sparrow. *Condor* 110(1):102-109.
15. Greenberg, R, **B Olsen**, and G Gough. 2005. Population status of the Coastal Plain Swamp Sparrow in Delaware. *Delmarva Ornithologist* 37.

### **Peer-reviewed Book Chapters & Edited Collections**

16. **Olsen, BJ**, JD McCabe<sup>^</sup>, EM Adams<sup>^</sup>, DP Grunzel<sup>^</sup>, and AJ Leppold<sup>^</sup>. 2015. Matching ephemeral resources on autumnal stopover and the potential for mismatch. Pp. 163-176 *in* Phenological Synchrony and Bird Migration: Changing Climate and Seasonal Resources in North America (EM Wood and JL Kellermann, eds.). *Studies in Avian Biology* (v.47), CRC Press, Boca Raton, FL
17. Etterson, MA, **BJ Olsen**, R Greenberg, and WG Shriver. 2011. Sources, sinks, and model accuracy. Pp. 273-290 *in* Sources, Sinks, and Sustainability Across Landscapes (J Liu, V Hull, A Morzillo, and J Wiens, eds.). Cambridge University Press, New York.
18. Etterson, MA, **BJ Olsen**, R Greenberg. 2007. The analysis of covariates in multi-fate Markov chain nest failure models. Pp 55-64 *in* Beyond Mayfield: Measurements of Nest Survival Data (SL Jones and GR Geupel, eds.). *Studies in Avian Biology* (v.34).
19. Greenberg, RG, C Elphick, JC Nordby, C Gjerdrum, H Spautz, G Shriver, B Schmeling, **BJ Olsen**, P Marra, N Nur, and M Winter. 2006. Flooding and predation: Trade-offs in the nesting ecology of tidal-marsh sparrows. Pp. 96-109 *in* Terrestrial Vertebrates of Tidal Salt Marshes: Ecology, Evolution, and Conservation (R Greenberg, JE Maldonado, S Droege, and MV McDonald, eds.). *Studies in Avian Biology* (v.32).

### **Book Reviews & Popular Science Articles**

20. **Olsen, BJ**. 2011. The Effect of Climate Change on Birds (Book Review). *Prairie Naturalist* 43(3/4):133-134.
21. Greenberg, R, **B Olsen**, B Ballentine, S Warner, and R Danner. 2008. Temporal distribution of the Coastal Plain Swamp Sparrow: The importance of subspecies identification. *Birding* 40:42-49.

**Grants & Fellowships** (Total awarded ~ \$4.11 Million, not including matching or in-kind costs)

- Elphick, C, J Cohen, TP Hodgman, A Kovach, **BJ Olsen**, WG Shriver (2014-2016). “Tidal wetlands after Hurricane Sandy: baseline restoration assessment and future conservation planning”. North Atlantic Landscape Conservation Cooperative (DOI) . . . . . \$719,527
- Correll, MD<sup>^</sup>, **BJ Olsen**, TP Hodgman (2014-2016). “Remote sensing of tidal marsh communities in the North Atlantic”. North Atlantic Landscape Conservation Cooperative (DOI) . . . . . \$100,473
- **Olsen, BJ**, CS Elphick, TP Hodgman, WG Shriver (2015-2016). “Resilience of the tidal marsh bird community to Hurricane Sandy and assessment of restoration efforts”. US Fish and Wildlife Service . . . . . \$1,409,127
- **Olsen, BJ**, CS Elphick, TP Hodgman, WG Shriver (2014). “Quantifying the short-term impacts of Hurricane Sandy on tidal-marsh birds and their habitats”. US Fish and Wildlife Service . . . . . \$569,346
- **Olsen, BJ** (2013). “Bird Migration Monitoring on the Schoodic Peninsula”. The Schoodic Education and Research Center Institute . . . . . \$10,000
- **Olsen, BJ**, WG Shriver, C Elphick (2013-2014). “Ecological Resistance of Multiply Stressed Populations”. National Science Foundation . . . . . \$199,976
- **Olsen, BJ** (2012). “Monitoring Animal Migration in Acadia National Park”. National Park Service . . . . . \$43,500
- **Olsen, BJ** (2011-2012). “Surveying for Saltmarsh Sparrows”. National Audubon Society (New York) . . . . . \$7,150
- **Olsen, BJ**, TP Hodgman, CS Elphick, & WG Shriver (2010-2013). “Assessing Change in the New England Tidal Marsh Bird Community”. US Fish & Wildlife Service, Reg. 5 Div. Migratory Birds . . . . . \$47,420
- Hodgman, TP, **BJOlsen**, CS Elphick, & WG Shriver (2010-2013). “The Conservation of Tidal Marsh Birds”. US Fish & Wildlife Service, Competitive State Wildlife Grant . . . . . \$760,202
- **Olsen, BJ** (2010 - 2011). “Predicting the Effects of Climate Change on Migratory Birds & Bats”. National Park Service Inventory and Monitoring Program . . . . . \$93,005
- **Olsen, BJ** (2011). “Testing for Population Change in the Climate-Sensitive Breeding Birds of Acadia National Park”. National Park Service, Northeast Temperate Network Inventory & Monitoring Program . . . . . \$2,940
- **Olsen, BJ** (2010 & 2011). “Investigating the Impacts of Waterfowl Impoundments on the Reproduction & Ecotoxicology of Sora and Virginia Rail”. US Fish & Wildlife Service Challenge Cost Share Grant . . . . . \$34,827
- **Olsen, BJ** (2010). “The Seasonal Phenology of Schoodic Birds: A largely local or regional process?” Acadia National Park Schoodic Research Fellowship Program . . \$4,937
- **Olsen, BJ** (2010 – *awarded, but declined*). “Testing for the Effects of Wetland Impoundments on the Community Composition and Reproductive Success of Wetland Songbirds”. US Fish & Wildlife Service Challenge Cost Share Grant . . . . . \$15,910
- University of Maine Faculty Summer Salary Award (2010) . . . . . \$7,500
- International Ornithological Congress Travel Award (2010) . . . . . \$500
- **Olsen, BJ** (2009-2011). “The Effect of Waterfowl Impoundments on Sora and Virginia Rail Populations”. US Fish & Wildlife Service Webless Migratory Gamebird Research Program . . . . . \$50,117
- University of Maine Faculty Research Award (2009) . . . . . \$11,034
- Washington Biologists’ Field Club (2005) . . . . . \$2,800
- Maryland Ornithological Society (2004 & 2005) . . . . . \$4,800
- Explorer’s Club, Washington Group (2005) . . . . . \$1,500
- Eastern Bird Banding Association (2005) . . . . . \$500
- Delaware Division of Fish & Wildlife (2004) . . . . . \$2,500

**Professional Presentations** (^ indicates supervised student, \* indicates presenter other than 1<sup>st</sup> author)

1. Elphick, CS, CR Field, WA Wiest, MD Correll<sup>^</sup>, WG Shriver, TP Hodgman, JB Cohen, AI Kovach, and **BJ Olsen**. August 2015. Using the Saltmarsh Habitat and Avian Research Program's sampling framework to study resistance, restoration, and resilience following Hurricane Sandy. Conference of the Society of Wetland Scientists. Providence, Rhode Island.
2. Elphick, CS, CR Field, WA Wiest, MD Correll<sup>^</sup>, WG Shriver, TP Hodgman, and **BJ Olsen**. August 2015. Resistance of coastal marsh ecosystems to large-scale perturbations: regional effects of Hurricane Sandy on saltmarsh vegetation and bird populations in the northeastern USA. 27<sup>th</sup> International Congress for Conservation Biology and 4<sup>th</sup> European Congress for Conservation Biology. Montpellier, France.
3. Olsen, AA, AR Taylor<sup>^</sup>, J Lively, EM Hausrath, **BJ Olsen**, D Cardace. March 2015. Chemical signatures of biological impacts on serpentinite weathering. 50<sup>th</sup> Annual Meeting of the Northeast Chapter of the Geological Society of America. Bretton Woods, New Hampshire.
4. Benvenuti, BA, AI Kovach, DM Burdick, JB Cohen, CS Elphick, TP Hodgman, KM O'Brien, **BJ Olsen**, WG Shriver. October 2014. Floating habitat islands for saltmarsh-nesting birds. Joint Conference of the Northeast and Southeast Partners in Flight. Virginia Beach, Virginia.
5. Elphick, CS, **BJ Olsen**, and WG Shriver. *Session Organizers*. October 2014. The Saltmarsh Habitat and Avian Research Program (SHARP): progress to date and future expansion south. Joint Conference of the Northeast and Southeast Partners in Flight. Virginia Beach, Virginia.
6. Hodgman, TP, B Benvenuti, A Borowske, JB Cohen, M Conway<sup>^</sup>, MD Correll<sup>^</sup>, CS Elphick, CR Field, T Freiday, L Garey<sup>^</sup>, RA Kern<sup>^</sup>, E King, A Kocek, AI Kovach, **BJ Olsen**, S Roberts, KJ Ruskin<sup>^</sup>, E Shelly, WG Shriver, J Walsh<sup>^</sup>, WA Wiest. October 2014. SHARP: The Saltmarsh Habitat and Avian Research Program. Joint Conference of the Northeast and Southeast Partners in Flight. Virginia Beach, Virginia.
7. Elphick, CS, JB Cohen, MD Correll, CR Field, TP Hodgman, AI Kovach, **BJ Olsen**, WG Shriver, and WA Wiest. October 2014. Using the SHARP sampling framework to quantify the effects of Hurricane Sandy on coastal marshes and the efficacy of post-Sandy restoration actions. Joint Conference of the Northeast and Southeast Partners in Flight. Virginia Beach, Virginia.
8. Shriver, WG, WA Wiest, MD Correll<sup>^</sup>, **BJ Olsen**, CS Elphick, TP Hodgman, JB Cohen, and CR Field. October 2014. The SHARP sampling framework: inventory and monitoring of tidal marsh birds in the Northeast. Joint Conference of the Northeast and Southeast Partners in Flight. Virginia Beach, Virginia.
9. **Olsen, BJ**, KJ Ruskin<sup>^</sup>, CR Field, A Borowske, JB Cohen, CS Elphick, TP Hodgman, RA Kern<sup>^</sup>, E King, A Kocek, AI Kovach, WG Shriver, J Walsh<sup>^</sup>. October 2014. The demography of tidal marsh birds: regional patterns and the implications for conservation. Joint Conference of the Northeast and Southeast Partners in Flight. Virginia Beach, Virginia.
10. Kovach, AI, J Walsh<sup>^</sup>, KM O'Brien, **BJ Olsen**, WG Shriver, JB Cohen, CS Elphick, TP Hodgman. October 2014. Using genetic tools to inform conservation of Saltmarsh and Nelson's Sparrows in BCR30. Joint Conference of the Northeast and Southeast Partners in Flight. Virginia Beach, Virginia.
11. **Olsen, BJ**, RM Danner, WG Shriver, JR Walters, and R Greenberg. September 2014. Tradeoffs between migration distance and seasonal survival in migratory songbirds. Joint Meeting of the American Ornithologists' Union, Cooper Ornithological Society, and the Society for Canadian Ornithology. Estes Park, Colorado.
12. Adams, EM<sup>^</sup>, and **BJ Olsen**. September 2014. Effects of changing global climate, local weather, and habitat on songbird migratory phenology and abundance. Joint Meeting of the American Ornithologists' Union, Cooper Ornithological Society, and the Society for Canadian Ornithology. Estes Park, Colorado.
13. Walsh, J,<sup>^</sup> AI Kovach, RJ Rowe, **BJ Olsen**, and WG Shriver. September 2014. Exogenous selection in an avian hybrid zone: inferences from genotype-habitat associations and ecological niche models. Joint Meeting of the American Ornithologists' Union, Cooper Ornithological Society, and the Society for Canadian Ornithology. Estes Park, Colorado.

14. Grunzel, DP<sup>^</sup> and **BJ Olsen**. September 2014. Longer distance migrant passerines are more averse to predation risk during fall migration. Joint Meeting of the American Ornithologists' Union, Cooper Ornithological Society, and the Society for Canadian Ornithology. Estes Park, Colorado.
15. Correll, M<sup>^</sup>, **BJ Olsen**, TP Hodgman, W Wiest, WG Shriver. September 2014. A regional change comparison of obligate and non-obligate birds in tidal marshes of the North Atlantic. Joint Meeting of the American Ornithologists' Union, Cooper Ornithological Society, and the Society for Canadian Ornithology. Estes Park, Colorado.
16. Ruskin, KJ<sup>^</sup>, MA Etterson, **BJ Olsen**, TP Hodgman, CS, Elphick, AI Kovach, WG Shriver, A Borowske, CR Field, RA Kern<sup>^</sup>, J Walsh<sup>^</sup>, E King. September 2014. Latitudinal trends in Saltmarsh Sparrow (*Ammodramus caudacutus*) nest failure from competing risks. Joint Meeting of the American Ornithologists' Union, Cooper Ornithological Society, and the Society for Canadian Ornithology. Estes Park, Colorado.
17. McCabe, JD<sup>^</sup> and **BJ Olsen**. September 2014. The interaction between risk avoidance and foraging quality on the stopover habitat use of migrant landbirds. Joint Meeting of the American Ornithologists' Union, Cooper Ornithological Society, and the Society for Canadian Ornithology. Estes Park, Colorado.
18. Ruskin, KJ<sup>^</sup>, BJ Olsen, TP Hodgman, MA Etterson. August 2014. Differences in Saltmarsh and Nelson's sparrow oviposition preference are not adaptive: a case for neutral evolution. The XV Congress of the International Society for Behavioral Ecology. New York, New York.
19. Walsh, J<sup>^</sup>, AI Kovach, RJ Rowe, **BJ Olsen**, WG, Shriver. May 2014. Investigating patterns of exogenous selection in an avian hybrid zone. Joint Meeting of the Association of Field Ornithologists and the Wilson Ornithological Society. Newport, Rhode Island.
20. Ruskin, KJ<sup>^</sup>, MA Etterson, **BJ Olsen**, TP Hodgman, CS, Elphick, AI Kovach, WG Shriver, A Borowske, CR Field, RA Kern<sup>^</sup>, J Walsh<sup>^</sup>, E King. May 2014. Latitudinal trends in Saltmarsh Sparrow (*Ammodramus caudacutus*) nest failure from competing risks. Joint Meeting of the Association of Field Ornithologists and the Wilson Ornithological Society. Newport, Rhode Island.
21. Smith, C, N Perlut, **BJ Olsen**, D Grunzel<sup>^</sup>, T Lloyd-Evans, T Dean. April 2014. The effects of latitudinal variation on the body size of the black-capped chickadee: a test of Bergmann's Rule. 70<sup>th</sup> Annual Northeast Fish & Wildlife Conference, a meeting of the Northeast Association of Fish and Wildlife Agencies. Portland, Maine.
22. Correll, M<sup>^</sup>, **BJ Olsen**, TP Hodgman. April 2014. Predicting tidal marsh communities via remote sensing: a potential tool for adaptive coastal conservation. 70<sup>th</sup> Annual Northeast Fish & Wildlife Conference, a meeting of the Northeast Association of Fish and Wildlife Agencies. Portland, Maine.
23. Ruskin, KJ<sup>^</sup>, MA Etterson, **BJ Olsen**, TP Hodgman, CS, Elphick, AI Kovach, WG Shriver, A Borowske, CR Field, RA Kern<sup>^</sup>, J Walsh<sup>^</sup>, E King. April 2014. Latitudinal trends in Saltmarsh Sparrow (*Ammodramus caudacutus*) nest failure from competing risks. 70<sup>th</sup> Annual Northeast Fish & Wildlife Conference, a meeting of the Northeast Association of Fish and Wildlife Agencies. Portland, Maine.
24. Williams, S and **BJ Olsen**. April 2014. Using tern density as a measure of habitat management success: the effect of fourteen years of annual prescribed spring burns at Petit Manan Island. 70<sup>th</sup> Annual Northeast Fish & Wildlife Conference, a meeting of the Northeast Association of Fish and Wildlife Agencies. Portland, Maine.
25. Cohen, J, D Curson, C Elphick, T Hodgman, A Kovach, **B Olsen**, G Shriver, A Borowske, M Correll<sup>^</sup>, C Field, R Kern<sup>^</sup>, A Kocek, L Kordonowy, K Ruskin<sup>^</sup>, E Shelly, J Style<sup>^</sup>, J Walsh<sup>^</sup>, and W Wiest. April 2014. SHARP: Saltmarsh habitat & avian research program. 70th Annual Northeast Fish and Wildlife Conference, Portland, Maine.
26. Grunzel, DP<sup>^</sup> and **BJ Olsen**. April 2014. Longer distance migrant passerines are more predation risk averse on stopover. 3<sup>rd</sup> Annual Schoodic Institute Science Symposium, Winter Harbor, Maine.
27. **Olsen, BJ**, JD McCabe<sup>^</sup>, EM Adams<sup>^</sup>, DP Grunzel<sup>^</sup>, AJ Leppold<sup>^</sup>, and AJ Miller-Rushing. August 2013. An assessment of the potential for phenological mismatch in autumnal migratory stopover. 131<sup>st</sup> Stated Meeting of the American Ornithologists' Union and the 83<sup>rd</sup> Annual Meeting of the Cooper Ornithological Society, Chicago, Illinois.
28. Grunzel, DP<sup>^</sup> and **BJ Olsen**. August 2013. A test for multiple antipredation strategies in songbirds during migration using phylogenetic contrasts. 131<sup>st</sup> Stated Meeting of the American Ornithologists' Union and the 83<sup>rd</sup> Annual Meeting of the Cooper Ornithological Society, Chicago, Illinois.

29. Adams, E<sup>^</sup> and **BJ Olsen**. August 2013. Using a hierarchical modeling framework to estimate detection probability of bird migration banding censuses. 131<sup>st</sup> Stated Meeting of the American Ornithologists' Union and the 83<sup>rd</sup> Annual Meeting of the Cooper Ornithological Society, Chicago, Illinois.
30. Ruskin, KJ<sup>^</sup>, MA Etterson, and **BJ Olsen**. August 2013. Characterization of the nest site preferences of Saltmarsh and Nelson's sparrows and their hybrids. 131<sup>st</sup> Stated Meeting of the American Ornithologists' Union and the 83<sup>rd</sup> Annual Meeting of the Cooper Ornithological Society, Chicago, Illinois.
31. Correll, M<sup>^</sup> , **BJ Olsen**, and TP Hodgman. August 2013. Conservation from orbit: Predicting tidal marsh communities via remote sensing. 131<sup>st</sup> Stated Meeting of the American Ornithologists' Union and the 83<sup>rd</sup> Annual Meeting of the Cooper Ornithological Society, Chicago, Illinois.
32. Shriver, G, C Elphick, **B Olsen**, and T Hodgman. July 2013. The conservation of tidal marsh birds: Guiding action at the intersection of our changing land and seascapes. International Congress for Conservation Biology, Baltimore, Maryland.
33. Dumont, JE, Z Batz<sup>^</sup>, F Dastoor, **B Olsen**, and M K Smith. July 2013. Analysis of student course performance in response to differential academic intervention. 3<sup>rd</sup> Annual Meeting for the Society for the Advancement of Biology Education Research, Minneapolis, Minnesota.
34. Batz, Z <sup>^</sup>, J Dumont, F Dastoor, **BJ Olsen**, M Smith. July 2013. Academic intervention and student engagement in a large introductory biology class. 3<sup>rd</sup> Annual Meeting for the Society for the Advancement of Biology Education Research, Minneapolis, Minnesota.
35. McCabe, JD<sup>^</sup> and **BJ Olsen**. April 2013. A validated model for migratory stopover distribution in North America: identifying generalizable predictors of site use. 3<sup>rd</sup> Annual Northeast Regional Migration Monitoring Network Meeting, Winter Harbor, Maine.
36. Grunzel, D <sup>^</sup>. and **BJ Olsen**. April 2013. Behavior and timing of fall migrant songbirds. 3<sup>rd</sup> Annual Northeast Regional Migration Monitoring Network Meeting, Winter Harbor, Maine.
37. Elphick, C, C Field, **BJ Olsen**<sup>\*</sup>, TP Hodgman, WG Shriver. March 2013. The ability of tidal marshes to maintain vertebrate biodiversity is slipping: Is human mitigation possible? 48<sup>th</sup> Annual Meeting of the Geological Society of North America, Northeast Section, Bretton Woods, New Hampshire.
38. Elphick, C<sup>\*</sup>, **BJ Olsen**<sup>\*</sup>, WG Shriver<sup>\*</sup> (all presented). October 2012. The Saltmarsh Habitat and Avian Research Program. Bridging the Implementation Gap: Bird Conservation Conference in the Northeast, Plymouth, Massachusetts.
39. McCabe, JD<sup>^</sup> and **BJ Olsen**. October 2012. Defining critical habitat for migratory songbirds in the Downeast coastal region of Maine. 2<sup>nd</sup> Annual Schoodic Education and Research Center Science Symposium, Winter Harbor, Maine.
40. **Olsen, BJ**, DC Evers, and AJ Byrd<sup>^</sup>. October 2012. Toxin load decreases the capacity of Common Loons to adapt to climate change. 2<sup>nd</sup> Annual Schoodic Education and Research Center Science Symposium, Winter Harbor, Maine.
41. Byrd, AJ<sup>^</sup>, **BJ Olsen**, and D Evers. August 2012. Common Loon (*Gavia immer*) biogeography and reproductive success in an era of climate change. 5<sup>th</sup> Quadrennial North American Ornithological Conference. Vancouver, British Columbia, Canada.
42. Correll, M<sup>^</sup>, **BJ Olsen**, and T Hodgman. August 2012. Predicting tidal marsh bird populations via remote sensing: A potential tool for coastal conservation. 5<sup>th</sup> Quadrennial North American Ornithological Conference. Vancouver, British Columbia, Canada.
43. Culp, L<sup>^</sup>, K O'Brien, T Hodgman, **BJ Olsen**, and W Glanz. August 2012. Roads in salt marshes: Flooding, vegetation and Sharp-tailed Sparrow habitat quality in tidally restricted marshes. 5<sup>th</sup> Quadrennial North American Ornithological Conference. Vancouver, British Columbia, Canada.
44. McCabe, JD<sup>^</sup> and **BJ Olsen**. August 2012. Defining critical habitat for migratory songbirds in the Downeast coastal region of Maine. 5<sup>th</sup> Quadrennial North American Ornithological Conference. Vancouver, British Columbia, Canada.
45. **Olsen, BJ**, DC Evers, and AJ Byrd<sup>^</sup>. August 2012. Toxin load decreases the capacity of Common Loons to adapt to climate change. 5<sup>th</sup> Quadrennial North American Ornithological Conference. Vancouver, British Columbia, Canada.
46. Robertson, EP<sup>^</sup> and **BJ Olsen**. August 2012. Density, breeding stage, and sex affect rail broadcast survey results. 5<sup>th</sup> Quadrennial North American Ornithological Conference. Vancouver, British Columbia, Canada.

47. Ruskin, KJ<sup>^</sup> and **BJ Olsen**. August 2012. Testing for stability in the Sharp-tailed Sparrow hybrid zone: 130 years of plumage comparisons. 5<sup>th</sup> Quadrennial North American Ornithological Conference. Vancouver, British Columbia, Canada.
48. Byrd, AJ<sup>^</sup> and **BJ Olsen**. March 2012. Loon biogeography and viability in regards to climate change. 23<sup>rd</sup> Annual Meeting of the Northeast Loon Study Working Group. Moultonborough, New Hampshire.
49. **Olsen, BJ** and JD McCabe<sup>^</sup>. *Invited Participant*. October 2011. Understanding a continental-scale behavior in an era of climate change. Acadia National Park Science Symposium. Winter Harbor, Maine.
50. Powell, M<sup>^</sup> and **Olsen, BJ** October 2011. Changing landscapes, changing climates, and the changing needs of Acadia's tidal-marsh-dependent birds. Acadia National Park Science Symposium. Winter Harbor, Maine.
51. **Olsen, BJ**, MA Etterson, R Greenberg, and WG Shriver. July 2011. On the back of an envelope model: A more mechanistic approach to predicting range shifts with climate change. 129<sup>th</sup> Annual Meeting of the American Ornithologists' Union. Jacksonville, Florida.
52. Byrd, AJ<sup>^</sup>, **BJ Olsen**, R Holberton, and D Evers. July 2011. Common Loon, *Gavia immer*, settlement behavior and reproductive success in an era of climate change. 129<sup>th</sup> Annual Meeting of the American Ornithologists' Union. Jacksonville, Florida.
53. **Robertson, E<sup>^</sup>** and **BJ Olsen**. July 2011. The effect of waterfowl impoundments on sora and Virginia rail populations. 129<sup>th</sup> Annual Meeting of the American Ornithologists' Union. Jacksonville, Florida.
54. Byrd, AJ<sup>^</sup> and **BJ Olsen**. March 2011. The viability of the Common Loon in New England. 22<sup>nd</sup> Annual Meeting of the Northeast Loon Study Working Group. Moultonborough, New Hampshire.
55. Pintar, M<sup>^</sup>, **BJ Olsen**. October 2010. The effect of experimental acidification on ovenbird territory size. 45<sup>th</sup> Annual Conference of the National Collegiate Honors Council. Kansas City, Missouri.
56. Elphick, C, **BJ Olsen**, WG Shriver. *Session Organizer*. October 2010. The Conservation of Tidal Marsh Birds: Guiding action at the intersection of our changing land and seascapes. Power of Partnerships: Bird Conservation Conference in the Northeast. Plymouth, Massachusetts.
57. **Olsen, BJ** and TP Hodgman. October 2010. A new partnership for estimating regional abundance, population trends, and demographic patterns. Power of Partnerships: Bird Conservation Conference in the Northeast. Plymouth, Massachusetts.
58. Robertson, E<sup>^</sup> and **BJ Olsen**. October 2010. The effect of waterfowl impoundments on Sora and Virginia Rail populations. Power of Partnerships: Bird Conservation Conference in the Northeast. Plymouth, Massachusetts.
59. **Olsen, BJ** *Invited Symposium Participant*. August 2010. Abiotic drivers of sexual selection in the tidal marsh: A case study using swamp sparrows. 25<sup>th</sup> International Ornithological Congress. Campos do Jordão, SP, Brazil.
60. Robertson, E<sup>^</sup> and **BJ Olsen**. August 2010. The effect of waterfowl impoundments on Sora and Virginia Rail populations. Annual Meeting of the Association of Field Ornithologists. Ogden, Utah.
61. AJ Byrd<sup>^</sup> and **BJ Olsen**. April 2010. Territory quality and energetic cost. 21<sup>st</sup> Annual Meeting of the Northeast Loon Study Working Group. North Grafton, Massachusetts.
62. **Olsen, BJ**, MA Etterson, R Greenberg. *Invited Symposium Participant*. October 2009. Calculations on the back of an envelope model: Applying seasonal fecundity models to species' range limits. Ecological Modelling for Enhanced Sustainability in Management – Conference of the International Society for Ecological Modelling. Québec City, P. Québec, Canada.
63. **Olsen, BJ**, R Greenberg, and JR Walters. August 2009. The selective forces behind bill dimorphism in the Swamp Sparrow: Natural or sexual? 127<sup>th</sup> stated meeting of the American Ornithologists' Union. Philadelphia, Pennsylvania.
64. Tyler, M, R Cowan, F Dastoor, **B Olsen**, J Lockhart, M Harris. *Invited Symposium Participant*. July 2009. Helping students understand the process of science: Using inquiry-based labs and lecture videos in a large introductory biology course. NSF-AAAS Meeting: Vision and Change in Undergraduate Biology Education. Washington, DC.
65. Szalkowski, HA<sup>^</sup>, **BJ Olsen**, and S Warner. April 2009. The influence of relative nest predation risk on interspecific variation in parental nest defense behaviors. 2009 Joint Scientific Meeting of the Wilson Ornithological Society & the Association of Field Ornithologists. Pittsburgh, Pennsylvania.



66. **Olsen, BJ**, JF Husak, IT Moore, PJ Sharp, and R Greenberg. August 2008. Interpopulation variation in parental aggression: Hormonal and behavioral correlates in Swamp Sparrows. 126<sup>th</sup> stated meeting of the American Ornithologists' Union. Portland, Oregon.
67. Liu, IA<sup>^</sup>, B Lohr, **BJ Olsen**, and R Greenberg. August 2008. Macrogeographic vocal variation in subspecies of swamp sparrow (*Melospiza georgiana*). 45<sup>th</sup> Annual Meeting of the Animal Behavior Society. Snowbird, Utah.
68. Warner, S, WG Shriver, R Greenberg, **BJ Olsen**. May 2008. The effect of *Phragmites australis* invasions on nesting habitat of salt marsh endemic sparrows along Delaware Bay. 29<sup>th</sup> Annual Meeting of the Society of Wetland Scientists. Washington, DC.
69. Warner, S, WG Shriver, R Greenberg, **BJ Olsen**. October 2007. *Phragmites australis* invasions on nesting habitat of salt marsh endemic sparrows along Delaware Bay. 10<sup>th</sup> Annual Watersheds & Wetlands Work Group Workshop. Ocean City, Maryland.
70. **Olsen, BJ**, R Greenberg, IA Liu<sup>^</sup>, JM Felch<sup>^</sup>, and JR Walters. August 2007. Interactions between sexual and natural selection in the plumage divergence of the Coastal Plain Swamp Sparrow. 125<sup>th</sup> stated meeting of the American Ornithologists' Union. Laramie, Wyoming.
71. **Olsen, BJ**, JM Felch<sup>^</sup>, R Greenberg, and JR Walters. October 2006. Life history divergence in two sub-species of the Swamp Sparrow: Incomplete bet-hedging? 4<sup>th</sup> Quadrennial North American Ornithological Conference. Veracruz, Mexico.
72. Etterson, MA, TR Stanley, **BJ Olsen**, R Greenberg, LR Nagy. and T Rodden Robinson. October 2006. Controlling classification error in competing-fate, nest-failure analysis. 4<sup>th</sup> Quadrennial North American Ornithological Conference. Veracruz, Mexico.
73. Liu, IA<sup>^</sup>, B Lohr, **BJ Olsen**, and R Greenberg. October 2006. Macrogeographic vocal variation in subspecies of swamp sparrow (*Melospiza georgiana*). 4<sup>th</sup> Quadrennial North American Ornithological Conference, Veracruz. Mexico.
74. **Olsen, BJ**, R Greenberg, and J Walters. February 2006. Optimal habitat in the Swamp Sparrow: Interactions of sex and scale. Winter Annual Meeting of the Virginia Chapter of the Wildlife Society. Richmond, Virginia.
75. **Olsen, BJ**, R Greenberg, and J Walters. August 2005. The effect of sex and scale on the habitat associations of the Coastal Plain Swamp Sparrow. 123<sup>rd</sup> stated meeting of the American Ornithologists' Union. Santa Barbara, California.
76. **Olsen, BJ**, R Greenberg, and J Walters. August 2004. Seasonal clutch size variation in Coastal Plain Swamp Sparrows: Physiological constraint or strategic adjustment? 122<sup>nd</sup> stated meeting of the American Ornithologists' Union. Québec City, P. Québec, Canada.
77. **Olsen, BJ** and R Greenberg. October 2002. A preliminary investigation of the effect of crown brightness on measures of fecundity in *Melospiza georgiana nigrescens*. Vertebrates of Tidal Marshes Symposium. Laurel, Maryland.

### **Teaching Experience**

- **Basic Biology** (Fall 2010 to Present), *UMaine*, 750-student (3 sections), team-taught (2 instructors), freshman-level lecture; Mean overall student evaluations: 4.4 / 5.0
- **The Biology of Organisms** (Spring 2009 to Present), *UMaine*, 250-student, team-taught (2 instructors), freshman-level lecture; Mean overall student evaluations: 4.6 / 5.0
- **Disturbance Ecology** (Fall 2013), *Multi-Institutional*, 30-student, online graduate course; team-taught with instructors at Univ. New Hampshire, Univ. Connecticut, SUNY-ESF, and Univ. Delaware
- **Ecology, Evolution, & Complex Systems Seminar** (Fall 2012 to present), graduate seminar with readings on these topics and graduate, faculty, and post-doc presentations on original research
- **Avian Biology & Ecology** (Springs 2011 & 2013), *UMaine*, 30-student, senior-level lecture with laboratory; Mean overall student evaluation: 4.9 / 5.0
- **Tidal Marsh Ecology** (Fall 2012), *Multi-Institutional*, 30-student, online graduate course; team-taught with instructors at Univ. New Hampshire, Univ. Connecticut, SUNY-ESF, and Univ. Delaware
- **Sexual Selection** (Spring 2012), *UMaine*, 10-student, graduate course; Mean overall student evaluations: 4.8 / 5.0

- **Speciation** (Spring 2011), *UMaine*, 10-student, graduate course; Mean overall student evaluations: 4.9 / 5.0
- **Biology: The Living Science** (Spring 2011), *UMaine*, 140-student, team-taught (2 instructors), non-major, freshman-level lecture; Mean overall student evaluations: 4.6 / 5.0
- **Vertebrate Biology** (Fall 2008, 2010), *UMaine*, 80-student, junior-level lecture; Mean overall student evaluations: 4.8 / 5.0
- **Behavioral Ecology** (Spring 2010), *UMaine*, 6-student, graduate course; Mean overall student evaluations: 4.8 / 5.0
- **Mammalogy** (Spring 2008), *Penn State*, 65-student, senior-level lecture with laboratory; Mean overall student evaluations: 6.4 / 7.0
- **Conservation Biology** (Fall 2007), *Penn State*, 35-student, team-taught (2 instructors), senior-level lecture; Mean overall student evaluations: 6.1 / 7.0
- **Fisheries and Wildlife Measurements** (Fall 2007), *Penn State*, 35-student, junior-level lecture with laboratory; Mean overall student evaluation: 6.2 / 7.0
- **Evolution** (Summer 2007), *Virginia Tech*, 20-student, sophomore-level lecture; Mean overall student evaluation: 3.7 / 4.0
- **Ornithology** (Spring 2005 & 2007), *Virginia Tech*, 40-student, senior-level lecture with laboratory; Mean overall student evaluation: 3.7 / 4.0

### **Mentoring & Research Advising**

*Post-doctoral Scientist Supervision (Primary advisor unless otherwise noted)*

1. Kristina Cammen, School of Biology & Ecology, *UMaine*
2. Brittany Cline, Entomology & Wildlife Ecology, Univ. Delaware – *Co-advised with W.G. Shriver*

*Graduate Advising (Primary advisor unless otherwise noted)*

1. Katharine Ruskin, Ph.D. Candidate, Ecology & Environmental Science, *UMaine*
2. Maureen Correll, Ph.D. Candidate, Ecology & Environmental Science, *UMaine* – *Co-advised with T. Hodgman of the Maine Dept. of Inland Fisheries & Wildlife*
3. Jennifer McCabe, Ph.D. Candidate, Ecology & Environmental Science, *UMaine*
4. Meaghan Powell, Ph.D. Student, Ecology & Environmental Science, *UMaine* – *Co-advised with T. Hodgman of the Maine Dept. of Inland Fisheries & Wildlife*
5. Laura Garey, M.S. Candidate, Ecology & Environmental Science, *UMaine* – *Co-advised with T. Hodgman of the Maine Dept. of Inland Fisheries & Wildlife*
6. Evan Adams, Ph.D. (2014), Ecology & Environmental Science, *UMaine*
7. David Grunzel, M.S. (2014), Ecology & Environmental Science, *UMaine*
8. Allison Byrd, M.S. (2013), Ecology & Environmental Science, *UMaine*
9. Meghan Powell, M.S. (2013), Department of Environmental Studies, Conservation Biology Program, Antioch University, Keene, New Hampshire – *Research Advisor*
10. Ellen Robertson, M.S. (2012), Ecology & Environmental Science, *UMaine* – *Co-advised with . Glanz*

*Graduate Committee Membership*

1. Jack McLachlan, M.S. Candidate, Ecology & Environmental Science, *UMaine*
2. Jeff Martin, Ph.D. Student, Ecology & Environmental Science, *UMaine*
3. Trevor Peterson, Ph.D. Student, Ecology & Environmental Science, *UMaine*
4. Kathryn Miller, Ph.D. Student, School of Biology & Ecology, *UMaine*
5. Venice Bayrd, Ph.D. Student, Ecology & Environmental Science, *UMaine*
6. Alyson McKnight, Ph.D. Student, Dept. of Wildlife, Fisheries, & Conservation Biology, *UMaine*
7. Rebecca Kern, Ph.D. Candidate, Dept. of Entomology & Wildlife Ecology, Univ. Delaware
8. Brian Rolek, Ph.D. Student, Dept. of Wildlife, Fisheries, & Conservation Biology, *UMaine*
9. Stephen Dunham, M.S. Candidate, Dept. of Wildlife, Fisheries, & Conservation Biology, *UMaine*
10. Jennifer Walsh, Ph.D. Candidate, Dept. Natural Resources & Environment, Univ. New Hampshire

11. Eric Doucette, Ph.D. Candidate, School of Biology & Ecology, UMaine
12. Erynn Call, Ph.D. Candidate, Dept. Wildlife, Fisheries, & Conservation Biology, UMaine
13. Adrienne Leppold, Ph.D. Candidate, School of Biology & Ecology, UMaine
14. Agnes Taylor, M.S. (2014), School of Earth & Climate Sciences, UMaine
15. Leah Culp, M.S. (2012), Ecology & Environmental Science, UMaine
16. Edward Hughes, M.S. (non-thesis - 2011), Ecology & Environmental Science, UMaine
17. Molly Harris, M.S. Teaching (2009), Center for Science and Mathematics Education Research, UMaine  
– Associate Reader (*non-signatory, committee member*)

*Undergraduate Theses (Research advisor unless noted; \*honors' project; ^resulting publication)*

1. Alexandra Perry (*pending 2015*), Biology, UMaine (*committee member*)
2. Matthew Sheltra (*pending 2015*), Biology, UMaine (*committee member*)
3. \*Jill Tengeres (*pending 2015*), Zoology, UMaine
4. Andrea Santariello (2015), Zoology & Marine Biology, UMaine
5. \*Ryan Hall (2014), Psychology, UMaine (*committee member*)
6. \*Mattie Paradise (2014), Biology, UMaine – Microbial ecology of eggshells in tidal marshes
7. ^\*Darlene Turcotte (2014), Zoology, UMaine – Urbanization effects on song sparrow territoriality
8. ^Elijah Davis (2014), Biology, UMaine – Habitat selection in the boreal songbird community
9. Jennifer Wiacek (2013), Unity College – Bill dimorphism in sharp-tailed sparrows
10. \*Sean Hardy (2013), Mathematics – Bayesian analysis of rail nest success (*committee member*)
11. Steven Marchessault (2012), Biology, UMaine – Philosophy of science (demarcation)
12. \*Kathryn Chenard (2012), Wildlife Ecology, UMaine (*committee member*)
13. Daniel LaBranche (2011), Zoology, UMaine, Historical patterns of hawk migration
14. Cathie J. Langley (2011), Botany, UMaine – Phenological synchrony of coastal islands
15. \*Hannah McDaniel (2011), Biology, UMaine (*committee member*)
16. \*Brian Crockett (2011), Zoology, UMaine – The use of “dummy nests” by rails
17. Andrew McIntyre (2010), Biology, UMaine – Phenology of coastal islands
18. \*Matthew Pintar (2010), Ecology & Environ. Science, UMaine – Acidification effects on ovenbirds
19. Tabitha King (2010), Biology, UMaine – Impoundment effects on rail habitat
20. Jennifer Wharff (2010), Ecology & Environ. Sciences, UMaine – Acidification effects on arthropods
21. \*Nissa Marione (2010), Biology, UMaine (*committee member*)
22. \*Ilea Enos (2009), Biology, UMaine (*committee member*)
23. \*Heather Szalkowski (2009), Wildlife & Fisheries Science, Penn State – Parental defense in sparrows
24. ^Irene Liu (2006), University of Maryland (*co-advised*) – Sub-species recognition in swamp sparrows
25. ^Joshua Felch, B.S. (2005), Virginia Tech – Predation effects on parental care in swamp sparrows

**Certificates, Workshops, & Short Courses**

- “Far afield: How to weave your fieldwork into your teaching”. Panel Discussion. March 2013. Center for Excellence in Teaching and Assessment, UMaine, Orono, ME.
- “On the design and analysis of multiple-choice tests: an apologia”. Presentation. April 2010. Center for Excellence in Teaching and Assessment, UMaine, Orono, ME.
- “Assessment: Where we are and where we’re headed”. Workshop. December 2009. Center for Excellence in Teaching and Assessment, UMaine, Orono, ME.
- “Teaching Large-Lecture Classes”. Panel Discussion. October 2008. Center for Excellence in Teaching and Assessment, UMaine, Orono, ME.
- “So You Want to Take Students Abroad: Strategies for success”. Spring 2008. Schreyer Institute for Teaching Excellence, Penn State, University Park, PA.

- “Getting Students to Talk in Class: Student-centered discussion”. Spring 2008. Schreyer Institute for Teaching Excellence, Penn State, University Park, PA.
- Certificate in higher education from the “Preparing the Future Professoriate” program of the Graduate School of Virginia Tech. Awarded Spring 2006.
- "Motivating Your Students: Strategies for design and implementation". Spring 2006. Faculty Development Institute, Virginia Tech, Blacksburg, VA.
- "Teaching Using Technology". Spring 2006. Faculty Development Institute, Virginia Tech, Blacksburg, VA.

### **Invited Seminars**

- *University of New Hampshire* – November 2014. “Evolutionary Succession”. Department of Natural Resources and the Environment, Durham, New Hampshire.
- *Unity College* – October 2014. “Evolutionary Succession”. Center for Biodiversity, Unity, Maine.
- *University of Maine* – March 2013. “Avian Adaptive Capacity on a Changing Planet: How much is too much?”. Department of Wildlife Ecology, Orono, Maine.
- *Page Farm & Home Museum* – November 2011. "How much change is too much? Conserving birds in an era of climate change". Friends of Dr. Edith M. Patch, Orono, Maine.
- *Schoodic Environmental Research Center* – October 2011. “An Ephemeral Process in a Shifting Landscape: The importance of Maine’s coast to the future of migratory, boreal birds”. Acadia National Park, Winter Harbor, Maine.
- *University of Massachusetts* – October 2010. “Habitat as Social Architect: How spatial variability could drive behavior, evolution, and management”. Department of Natural Resources Conservation: Amherst, Massachusetts.
- *University of Maine* – April 2010. “Habitat as Social Architect: How spatial variability could drive behavior, evolution, and management”. Department of Wildlife Ecology: Orono, Maine.
- *University of Maine* – October 2009. “Panel Discussion on Getting an Academic Job”. College of Natural Sciences, Forestry, & Agriculture: Orono, Maine.
- *University of Maine* – Olsen, BJ, M Etterson, & R Greenberg. April 2009. “Calculations on the back of an envelope model: A demographic approach to species’ range boundaries”. Climate Change Institute: Orono, Maine.
- *University of Minnesota* – M Etterson, R Bennett, B Olsen, & R Greenberg. February 2009. “Classical Markov Chains: A unifying framework for understanding avian reproductive success”. Department of Mathematics and Statistics: Duluth, Minnesota.
- *University of Maine* – September 2008. “As Fashion or Fatigues: The selection for feather color in the swamp sparrow”. School of Biology & Ecology Seminar Series: Orono, Maine.
- *SUNY Oneonta* - February 2008. “As Fashion or Fatigues: The selection for feather color in the swamp sparrow”. Biology Department: Oneonta, New York.
- *Pennsylvania State University* - September 2007. “If You Can't Take the Heat: Temperature-regulated demography in a salt-marsh bird?” Penn State Intercollegiate Graduate Degree Program in Ecology: University Park, Pennsylvania.
- *Pennsylvania State University* - June 2007. “Wildlife Pedagogy: Active learning in an applied science”. School of Forest Resources: University Park, Pennsylvania.
- *University of Maine at Presque Isle* - April 2007. “Change is Constant & the ‘Destiny’ of Ecological Communities”. Department of Science and Mathematics. Presque Isle, Maine.
- *Florida Southern College* - September 2006. “Life History Variation in Birds: How many eggs, how many baskets?” Biology Department. Lakeland, Florida.
- *Smithsonian National Zoological Park* - December 2005. “Evolutionary Divergence in the Life History of the Swamp Sparrow”. Smithsonian Institution Department of Conservation Biology Seminar Series. Washington, DC.
- *East Tennessee State University & Bristol Bird Club* - April 2005. “Evolutionary Divergence in the Swamp Sparrow”. Dr. Stephen M. Russell Graduate Lectureship. Bristol, Tennessee.

- *Virginia Polytechnic Institute & State University* - March 2005. "Seasonal Clutch Size Variation in Coastal Plain Swamp Sparrows: Physiological constraint or strategic adjustment?" Dept. of Biological Sciences. Blacksburg, Virginia.

### **Professional Outreach**

- *Orono Bog Boardwalk* – May annually since 2009. "The Sparrows of Orono Bog". Bangor City Forest: Bangor, Maine.
- *Stillwater Montessori School* – May 2014. "Close encounters with songbirds!" Hirundo Wildlife Refuge, Hudson, Maine.
- *Bangor Nature Club* – April 2014. "The story behind bird plumage color." Brewer, Maine.
- *Bangor Nature Club* – December 2012. "Why do Birds Sing?" Brewer, Maine.
- *UMaine Student Chapter of the Wildlife Society* – March 2010. "What can I do with a degree in wildlife ecology?". Department of Wildlife Ecology: Orono, Maine.
- *72<sup>nd</sup> Annual Eastern Maine Sportsmen's Show* – March 2010. "As Climate Changes: Effects on Habitat, Fish, Wildlife, and Sportsmen". Penobscot County Conservation Association: Orono, Maine.
- *Fields Pond Audubon Center* – May 2009. "Dressing Fancy: The story behind bird colors". Maine Audubon Society: Holden, Maine.
- *Bangor Public Library* – October 2008. "Color me birdy: The story behind plumage color". Penobscot Valley Chapter of the Maine Audubon Society: Bangor, Maine.
- *Western Pennsylvania Woodlands & Wildlife Conference* – March 2008. "Providing Habitat for Pennsylvania Wildlife: Maximizing biodiversity". Penn State Cooperative Extension, Westmoreland Woodland Improvement Association, & PA Bureau of Forestry: Greensburg, Pennsylvania.
- *Pennsylvania State University* - October 2007. "What can I do with a wildlife degree?" Penn State Student Chapter of the Wildlife Society: University Park, Pennsylvania.

### **Popular Media Coverage & Non-professional Publications**

Two brief videos about my research put together by UMaine for the public can be found at:

- <https://www.youtube.com/watch?v=mxUKv5UjkRE>
- <http://news.science360.gov/archives/20120626>
- "UMaine biologist studies Superstorm Sandy impact on tidal marshes". Beth Staples. UMaine press release reprinted in numerous outlets including: **FEMA News Today, The Working Waterfont, Bangor Daily News, GolnraGreen, Wopular, Maine Environmental News**. 4 December 2014.
- "Looking SHARP: Students, salt marshes, and that elusive sparrow". Charlotte Murtishaw. **USFWS Northeast Blog**. August 7th, 2014.
- "Birdseye View: Avian Science meets Hurricane Recovery". **USFWS Northeast Blog**. May 19th, 2014.
- "For the birds: Avian responses to environmental change". Margaret Nagle. **UMaine Today Magazine**. Spring 2014: <http://umainetoday.umaine.edu/archives/spring-2014/for-the-birds/>
- "Sexual selection may result in bigger-billed male birds". Beth Staples. UMaine press release reprinted in numerous online outlets including: **The Maine Edge, Phys.org, SiloBreaker, e!Science News, Ornithology Exchange, Jhang TV**. 14 January 2014.
- "Effects of impoundment on rail habitat and productivity". Danielle D'Auria. **Fields Pond Journal**. October 2013.
- "Study looks at Superstorm Sandy's impacts on coastal marshes from Maine to Virginia". Clarke Canfield. **Associated Press**. 30 July 2013. Reprinted in numerous outlets including: **Washington Post, Boston Herald, Wall Street Journal, San Francisco Chronicle, Newsday**.
- "Climate Change Threatens New England Birds". North Cairn. **Portland Press Herald**. 25 June 2013. [http://www.pressherald.com/news/climate-change-threatens-n\\_e\\_-birds\\_2013-06-25.html](http://www.pressherald.com/news/climate-change-threatens-n_e_-birds_2013-06-25.html)
- "Beaks Grow When Mating". *Highlighted on Saturday Night Live: Weekend Update*. 16 February 2013. Season 38, Episode 1634 (23:27).

- “Studying Songbird Migration Patterns”. Anya Rose. *Featured Video* on **Science360**, National Science Foundation news service. 26 June 2012. <http://news.science360.gov/archives/20120626>
- “Loon lakes”. Jessica Bloch. **UMaine Today Magazine**. Winter 2011. <http://umainetoday.umaine.edu/past-issues/winter-2011/student-focus/>
- “Climate change and bird migration in Maine”. Laura Poppick. **Maine Climate News**. Sept. 2011.
- “Bills help saltmarsh sparrows shed heat”. Chris Peterson. *Birdnote* on **National Public Radio**. 9 Sep 2011. <http://www.birdnote.org/birdnote.cfm?id=2053>
- “Hot birds have large . . . beaks”. Amy Enchelmeyer. **Discovery News**. 28 July 2011. <http://news.discovery.com/animals/bird-beaks-cooling-110728.html>
- “Songbird Superhighway: Northeast Regional Migration Monitoring Network studying the major flyway in the gulf”. Jessica Bloch. **UMaine Today Magazine**. Spring 2011.
- “Flying into Uncharted Territory”. Ed Sharron. National Park Service, Inventory and Monitoring Program, **Northeastern Temperate Network Resource Brief**. February 2011.
- “Ladies’ Choice: Sexual Selection in Coastal Plain and Southern Swamp Sparrows”. Tina Gheen. **Smithsonian National Zoological Park** Spotlight on Birds. November 2010. [http://nationalzoo.si.edu/scbi/migratorybirds/science\\_article/default.cfm?id=52](http://nationalzoo.si.edu/scbi/migratorybirds/science_article/default.cfm?id=52)
- “The Seasonal Phenology of Schoodic Birds”. Sara Delheimer. Multiple National Park Service websites, including [www.northeastparkscience.org](http://www.northeastparkscience.org), [acadiascience.org](http://www.acadiascience.org), and [science.nature.nps.gov](http://www.science.nature.nps.gov). August 2010.
- “Migratory mystery of a secretive sparrow comes to light”. Michael Lipske. **Inside Smithsonian Research**. Summer 2005 (9): 3-5.
- “Mercury and Loons”. Naomi Schalit. *Living on Earth*. **National Public Radio**. Somerville, MA. September 29th, 2000.
- **Olsen, B.** 2000. The prodigal son sees his mother’s humanity or the horror, the horror! **Journal of College and Character**. 26 April. (<http://www.collegevalues.org/reflections.cfm>) *reprinted in* About Campus, 2001, 6(2): 2-4.
- Griffin, C, D Grove, **B Olsen**, and C Yohn. 1999. A Manual for Maple Syruping. **Juniata College Press**. Published online at <http://www.juniata.edu/services/station/syrupmanual.doc>.

**Professional Affiliations**

- American Ornithologists’ Union (member since 2002)
- Society for the Study of Evolution (member since 2007)
- The Wildlife Society (member since 2007)

**Professional Service**

*National & International Service*

- Reviewer for Animal Behaviour (1), the Auk (2), Behavioral Ecology (1), Biological Journal of the Linnean Society (2), Condor (1), Conservation Biology (1), Current Zoology (1), Ecology (2), Ecotoxicology (1), Estuaries & Coasts (2), Evolutionary Ecology Research (1), Functional Ecology (1), PLoS ONE (2), Prairie Naturalist (1), and the Southeastern Naturalist (1)
- Vice Chair of the Board of Directors, Biodiversity Research Institute, Gorham, Maine (’12 – *present*)
- Scientific Consultant for the Schoodic Bird Ecology Lab, Schoodic Institute, Acadia National Park (’12 – *present*)
- American Ornithologists’ Union Early Professionals Committee (’12 – *present*)
- Society for Ornithology: Executive Committee (’11 – ’12)
- Society for Ornithology: (Co-Chair) Education and Outreach Subcommittee (’11 – ’12)
- Society for Ornithology: Conservation Subcommittee (’11 – ’12)
- “Coastal Wetlands International Working Group” list-serve moderator, 31 members from four continents (’10 – *present*)
- “Sparrows of the Salt Marsh” list-serve moderator, 66 members (’09 – *present*)
- Advisory Board for Sinauer Publishing, “Life”, 9<sup>th</sup> edition (2009-2010)

- Reviewer, Canadian Foundation for Innovation, Leaders Opportunity Fund ('08)
- Student Research Award Judge, Society for Conservation Biology ('08)

*Local & Home Institution Service*

- UM Climate Change Institute Graduate Student Committee ('14 – *present*)
- UM School of Bio & Eco Policy Advisory Committee ('14 – *present*)
- Member of the UMaine ADVANCE: Rising Tide Advocates, an NSF-funded program for Increasing the Participation and Advancement of Women in Academic Science and Engineering Careers ('14 – '15)
- UM Ecology & Environmental Science Graduate Faculty Council ('12 – *present*)
- UM School of Bio & Eco Undergraduate Curriculum Committee ('08 – '11, '13 – *present*)
- UM School of Bio & Eco Graduate Award Panel, Animal Chair ('09, '12 – *present*)
- UM School of Bio & Eco Graduate Admissions Committee ('11 – '13)
- UM Honors College Council ('10 – '12)
- Board member for the Penobscot Valley Chapter of Maine Audubon ('10 – '11)
- UM School of Bio & Eco Graduate Committee ('08 – '11)
- UM School of Bio & Eco Seminar Series Coordinator ('09 – '10)
- Virginia Tech Graduate Honor System, Judicial Panel ('06 – '07)
- Juniata College Enrollment Management Committee ('00 –'01)
- Juniata College Scholarship Committee ('97 –'01)

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**Awards  
& Honors**

- Elective Member of the American Ornithologists' Union ('12)
  - Dr. Randy Alford Memorial Award for stimulating student curiosity in environmental research ('11)
  - Graduate Mentor of the Year, UMaine College of Natural Sciences, Forestry, & Agriculture ('10)
  - Biological Sciences Outstanding Graduate Student of the Year ('06)
  - VA Tech Graduate School Teaching Excellence Commendation ('06)
  - VA Wildlife Society Student Presentation Award ('06)
  - Dr. Stephen M. Russell Graduate Lectureship, Bristol Bird Club ('05)
  - Smithsonian Institution Predoctoral Research Fellowship ('05)
  - Smithsonian Institution Graduate Research Fellowship ('04)
  - NSF Graduate Research Fellowship: Honorable Mention ('03)
  - Dr. Andrew and Maria Brumbaugh Science Prize ('00, '01)
  - Bailey Oratorical Award ('00, '01)
  - Templeton Scholar ('00)
  - Four-year, full-tuition, undergraduate fellowship ('97 – '01)
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