

## Donald C. Dearborn, Ph.D.

Professor of Biology

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### EDUCATION

Postdoctoral Associate	University of Texas, Drs. Mike Ryan & Ulrich Mueller	1999-2000
Postdoctoral Fellow	Ohio State University, Dr. Patty Parker	1998-1999
PhD Biology	University of Missouri, Dr. John Faaborg	1997
BS Biology	University of North Carolina, Dr. Haven Wiley	1990

### TEACHING AND RESEARCH POSITIONS

Full Professor	Biology Department, Bates College	2010-present
Affiliated Scientist	Cardiff University, Wales	2016-present
Visiting Scholar	National Evolutionary Synthesis Center (NESCent)	2015
Visiting Scholar	Kenyon College	2015-2016
Herbert L. Spencer Endowed Chair	Department of Biology, Bucknell University	2008-2010
Associate Professor	Dept. Biology & Progr. Anim. Behav., Bucknell Univ.	2006-2010
Sabbatical Visiting Professor	Hebrew University of Jerusalem	2008
Sabbatical Visiting Professor	University of Auckland	2007-2008
Sabbatical Visiting Scientist	Smithsonian Institution	2007
Assistant Professor	Dept. Biology & Progr. Anim. Behav., Bucknell Univ.	2001-2005
Visiting Assistant Professor	Southwestern University	2000-2001
Research Consultant	The Nature Conservancy	1999-2001

### ADMINISTRATIVE AND LEADERSHIP POSITIONS

Accreditation Chair	Bates College Accreditation with NECHE	2018-2020
Interim Director	Bowdoin Scientific Station on Kent Island	2016
Department Chair	Biology Department, Bates College	2010-2015, 2019-
Associate Department Chair	Biology Department, Bates College	2017-2018
Associate Editor	<i>The Auk</i>	2008-present
Editorial Board	<i>The Open Ecology Journal</i>	2007-2011
Committee Co-Chair	Committee on Faculty Governance, Bates College	2017-2018
Curriculum Committee Chair	College of Arts and Sciences, Bucknell University	2009-2010
Department Chair	Dept. Biology, Bucknell University	2007
Program Chair	Program in Animal Behavior, Bucknell University	2005-2007
Search Committee Chair	Seven tenure-track faculty searches	2004-2018

### COURSES TAUGHT

*Bates College:* Advanced Genetics (with lab), Conservation Genetics (with lab), Avian Biology (with lab), Advanced Topics in Evolution, Junior Seminar, Seminar & Research in Evolutionary Biology, Ecology & Evolution (majors core course, with lab), Evolution and Interactions of Life, Evolutionary Biology (non-

majors), First Year Seminar: Wildlife Diseases, Lab-Based Biological Inquiry: Host-Parasite Evolution, Biological Research Experience: Molecules to Ecosystems.

*Bucknell University*: Evolution, Animal Behavior, Research Methods in Animal Behavior, Behavioral Ecology, Ornithology (with lab), Genetics (with problem sessions), General Biology, Undergraduate Research, Graduate Research.

*Southwestern University*: Evolution, Environmental Science (with labs), Ecology (with labs).

*University of Missouri*: General Biology lecture course; lab sections for Ornithology, Introductory Biology, and Zoology.

#### REFEREED PUBLICATIONS (undergraduate coauthors\*)

52. Rand L\*, Woodward C\*, May R\*, Ackerman RA\*, Tweedie B\*, Zicarelli TB\*, Dearborn DC. 2019. Divergence between genes but limited allelic polymorphism in two MHC class II A genes in Leach's storm-petrels *Oceanodroma leucorhoa*. **Immunogenetics** 71:561-573.
51. Tonelli B\* and Dearborn DC. 2019. An individual-based model for the dispersal of *Ixodes scapularis* by ovenbirds and wood thrushes during fall migration. **Ticks and Tick-borne Diseases** 10:1096-1104.
50. Mauck RA, Dearborn DC, and Huntington CE. 2018. Annual Global Mean Temperature explains reproductive success in a marine vertebrate from 1955-2010. **Global Change Biology** 24:1599-1613.
49. Tricola GM\*, Simons MJP, Atema E, Boersma PD, Boughton RK, Brown JL, Dearborn DC, Divoky G, Eimes J, Huntington CE, Kitaysky AS, Juola FA, Lank DB, Litwa HP\*, Mulder EGA, Nisbet ICT, Okanoya K, Safran RJ, Schoech SJ, Schreiber EA, Thompson PM, Verhulst S, Wheelwright NT, Winkler DW, Young R, Vleck CM, Haussmann MF. 2018. The rate of telomere loss is related to maximum lifespan in birds. **Philosophical Transactions of the Royal Society B** 373:20160445. DOI 10.1098/rstb.2016.0445
48. Dearborn DC, Page SM\*, Dainson M\*, Hauber ME, Hanley D. 2017. Eggshells as hosts of bacterial communities: an experimental test of the antimicrobial egg coloration hypothesis. **Ecology and Evolution** 7(22):9711-9719.
47. Dearborn DC, Gager AB, McArthur AG, Gilmour ME, Mandzhukova E\*, and Mauck RA. 2016. Gene duplication and divergence produce diverse MHC genotypes without disassortative mating. **Molecular Ecology** 25:4355-4367.
46. Dearborn DC, Gager AB, Gilmour ME, McArthur AG, Hinerfeld DA, and Mauck RA. 2015. Non-neutral evolution and reciprocal monophyly of two expressed Mhc class II B genes in Leach's storm-petrel. **Immunogenetics** 67:111-123.
45. Gilmour ME, Lattin CR, Romero LM, Haussmann MF, Mauck RA, and Dearborn DC. 2015. Finding the best predictor of reproductive performance of Leach's Storm-petrels. **Auk: Ornithological Advances**. 132:191-205.
44. Ismar SMH, Daniel C, Igc B, Ballard G, Millar CD, Fidler AE, McGraw KJ, Wakamatsu K, Stephenson BM, Cassey P, Dearborn DC, Hauber ME. 2014. Sexual plumage dichromatism in a size monomorphic seabird. **Wilson Journal of Ornithology** 126:417-428, **WITH FRONTISPIECE IMAGE**.
43. Kennedy EA, Lattin CR, Romero LM, and Dearborn DC. 2013. Feather coloration in museum specimens is related to feather corticosterone. **Behavioral Ecology and Sociobiology** 67:341-348. DOI: 10.1007/s00265-012-1454-9 **FEATURED ON [www.antibodyresource.com](http://www.antibodyresource.com)**
42. Dearborn DC, Hanley D, Ballantine K\*, Cullum J\*, Reeder D. 2012. Eggshell colour is more strongly affected by maternal identity than by dietary antioxidants in a captive poultry system. **Functional Ecology** 26:912-920.

41. Gilmour ME, Schreiber EA, and Dearborn DC. 2012. Satellite telemetry of great frigatebirds rearing chicks on Tern Island, North Central Pacific Ocean. **Marine Ornithology** 40:17-23.
40. Juola FA, Dearborn DC. 2012. Sequence-based evidence for major histocompatibility complex-disassortative mating in a colonial seabird. **Proceedings of the Royal Society B: Biological Sciences** 279:153-162. **FEATURED ON WEBSITE OF Science.**
39. Levin II, Valkiūnas G, Santiago-Alarcon D, Cruz LL, Iezhova TA, O'Brien SL, Hailer F, Dearborn DC, Schreiber EA, Fleischer RC, Ricklefs RE, Parker PG. 2011. Hippoboscid-transmitted *Haemoproteus* infecting Galapagos Pelecaniform birds: Evidence from mitochondrial DNA and morphological description of blood stages of *H. iwa*. **International Journal for Parasitology** 41:1019-1027, **WITH COVER PHOTO.**
38. Dearborn DC. 2010. Yellow-breasted chat (*Icteria virens*). In: Steele MA, Brittingham MC, Maret TJ, Merritt JF, eds. **Terrestrial Vertebrates of Pennsylvania: A Complete Guide to Species of Conservation Concern.** Johns Hopkins University Press.
37. Igc B, Hauber ME, Galbraith JA, Grim T, Dearborn DC, Brennan PLR, Moskat C, Choudhary PK, Cassey P. 2010. Comparison of micrometer- and scanning electron microscope-based measurements of avian eggshell thickness. **Journal of Field Ornithology** 81:402-410.
36. Hanley D, Doucet SM, Dearborn DC. 2010. A blackmail hypothesis for the evolution of conspicuous egg coloration in birds. **The Auk** 127:453-459.
35. Dearborn DC, Kark S. 2010. Motivations for conserving urban biodiversity. **Conservation Biology** 24:432-440. **FEATURED ON EUROPEAN COMMISSION'S SCIENCE FOR ENVIRONMENT POLICY WEBSITE.**
34. Dearborn DC, Gager AB. 2009. Food-dunking behavior by a Eurasian jay *Garrulus glandarius*. **Sandgrouse (Journal of the Ornithological Society of the Middle East)**. 31:40-41.
33. Wright SG\*, Dearborn DC. 2009. Male ornament variation in a sexually dimorphic seabird with variable male mating success. **Evolutionary Ecology Research** 11:759-770, **WITH COVER PHOTO.**
32. Dearborn DC, MacDade LS\*, Robinson S, Fink ADD, Fink ML. 2009. Offspring development mode and the evolution of brood parasitism. **Behavioral Ecology** 20:517-524.
31. Hanley D, Heiber G\*, Dearborn DC. 2008. Testing an assumption of the sexual signaling hypothesis: does blue-green egg color reflect maternal antioxidant capacity? **The Condor** 100:767-771.
30. Dearborn DC, Hailer F, Fleischer RC. 2008. Microsatellite primers for relatedness and population structure in great frigatebirds (Pelecaniformes: Fregatidae). **Molecular Ecology Resources** 8:1399-1401.
29. Dearborn DC, Anders AD, and Juola FA. 2008. Parent age differentially influences offspring size over the course of development in Laysan albatross *Phoebastria immutabilis*. **Journal of Zoology** 276:14-20, **WITH COVER PHOTO.**
28. Gager AB, Loiza JR, Dearborn DC, Bermingham E. 2008. Do mosquitoes filter the access of *Plasmodium* cytochrome *b* lineages to an avian host? **Molecular Ecology** 17:2552-2561.
27. Juola FA, McGraw K, Dearborn DC. 2008. Carotenoids and throat pouch coloration in the great frigatebird (*Fregata minor*). **Comparative Biochemistry and Physiology - Part B** 149:370-377.
26. Juola FA and Dearborn DC. 2007. Does the differential cost of sons and daughters lead to sex ratio adjustment in great frigatebirds (*Fregata minor*)? **Journal of Avian Biology** 38:94-104.
25. Hanley D, Minehart W\*, and Dearborn DC. 2007. Documentation of a polygynous gray catbird. **Wilson Journal of Ornithology** 119:499-502.
24. Dearborn DC and Anders AD. 2006. Demography and reproductive ecology of great frigatebirds. **Atoll Research Bulletin** 543:159-171.
23. Juola FA, Haussmann MF, Dearborn DC, and Vleck CM. 2006. Telomere shortening in a long-lived marine bird: cross-sectional analysis and test of an aging tool. **Auk** 123:775-783.

22. Dearborn DC, Anders AD, and Williams JB. 2005. Courtship display by great frigatebirds, *Fregata minor*: an energetically costly handicap signal? **Behavioral Ecology and Sociobiology** 58:397-406.
21. Cohen LB\* and Dearborn DC. 2004. Great frigatebirds (*Fregata minor*) choose mates that are genetically similar. **Animal Behaviour** 68: 1229-1236.
20. Lichtenstein G and Dearborn DC. 2004. Begging and short-term need in cowbird nestlings: how different are brood parasites? **Behavioral Ecology and Sociobiology** 56: 352-359.
19. Anders AD and Dearborn DC. 2004. Population trends of the endangered golden-cheeked warbler on Fort Hood, Texas, from 1992-2001. **Southwestern Naturalist** 49: 39-47.
18. Kostecke RM, Koloszar JA, and Dearborn DC. 2003. Effect of a reduction in cattle stocking rate on brown-headed cowbird activity. **Wildlife Society Bulletin** 31:1083-1091.
17. Dearborn DC, Anders AD, Schreiber EA, Adams RMM, and Mueller UG. 2003. Inter-island movements and population differentiation in a pelagic seabird. **Molecular Ecology** 12:2835-2843.
16. Hauber ME and Dearborn DC. 2003. Parentage without parental care: what to look for in genetic studies of obligate brood-parasitic mating systems. **Auk** [Perspectives in Ornithology] 120:1-13.
15. Dearborn DC and Lichtenstein G. 2002. Begging behaviour and host exploitation in parasitic cowbirds. pp. 361-387 *In* Wright J and Leonard M, eds. **The evolution of begging: competition, cooperation and communication**.
14. Burhans DE, Dearborn DC, Thompson FR III, and Faaborg J. 2002. Factors affecting predation at songbird nests in old fields. **Journal of Wildlife Management** 66:240-249.
13. Dearborn DC and Ryan MJ. 2002. A test of the Darwin-Fisher theory for the evolution of male secondary sexual traits in monogamous birds. **Journal of Evolutionary Biology** 15:307-313.
12. Dearborn DC and Sanchez LL. 2001. Do Golden-cheeked Warblers select nest locations on the basis of patch vegetation? **Auk** 118:1052-1057.
11. Dearborn DC, Anders AD, and Parker PG. 2001. Sexual dimorphism, extra-pair fertilizations, and operational sex ratio in great frigatebirds (*Fregata minor*). **Behavioral Ecology** 12:746-752.
10. Dearborn DC, Anders AD, and Flint EN. 2001. Trends in reproductive success of Hawaiian seabirds: is guild membership a good criterion for choosing indicator species? **Biological Conservation** 101:97-103.
9. Dearborn DC. 2001. Body condition and retaliation in parental effort decisions of incubating great frigatebirds (*Fregata minor*). **Behavioral Ecology** 12:200-206, **WITH COVER PHOTO**.
8. Dearborn DC and Anders AD. 2000. Occurrence and breeding behavior of lesser frigatebirds (*Fregata ariel*) on Tern Island, Northwestern Hawaiian Islands. **Pacific Seabirds** 27:2-5.
7. Dearborn DC. 1999. Brown-headed cowbird nestling vocalizations and the risk of nest predation. **Auk** 116:448-457.
6. Dearborn DC. 1998. Begging behavior and food acquisition by brown-headed cowbird nestlings. **Behavioral Ecology and Sociobiology** 43:259-270.
5. Dearborn DC, Anders AD, Thompson FR III, and Faaborg J. 1998. Effects of cowbird parasitism on parental provisioning and nestling food acquisition and growth. **Condor** 100:326-334.
4. Dearborn DC. 1998. Interspecific territoriality by a rufous-tailed hummingbird (*Amazilia tzacatl*): effects of intruder size and resource value. **Biotropica** 30:306-313.
3. Anders AD, Dearborn DC, Faaborg J, and Thompson FR III. 1997. Juvenile survival in a population of neotropical migrant birds. **Conservation Biology** 11:698-707.
2. Dearborn DC. 1996. Video documentation of a Brown-headed Cowbird nestling ejecting an Indigo Bunting nestling from the nest. **Condor** 98:645-649.

1. Dearborn DC and Wiley RH. 1993. Prior residence has a gradual influence on dominance in captive white-throated sparrows. **Animal Behaviour** 46:39-46.

### BOOK REVIEWS, TECHNICAL REPORTS, AND OTHER WORKS

- Dearborn DC. 2017. The affluent can always buy wilderness access. What about everyone else? A roundtable essay for The Nature of Cities. <https://www.thenatureofcities.com/roundtable/>
- Dearborn DC. 2015. Book review of *The Book of Eggs*, by Mark Hauber. **Wilson Journal of Ornithology** 127:161-163. **STORRS OLSON AWARD FOR BEST BOOK REVIEW 2015 WILSON J. OF ORNITHOL.**
- Dearborn DC. 2009. Wilson Creek memoirs: messages from the River Gods. **American Whitewater** 49(3):32-33.
- Dearborn DC and Anders AD. 1998. Reproductive success of Black Noddies, Red-footed Boobies, and Red-tailed Tropicbirds on Tern Island, French Frigate Shoals in 1997. U. S. Fish and Wildlife Service, Honolulu, Hawaii.
- Dearborn DC and Anders AD. 1996. Reproductive success of Black Noddies, Red-footed Boobies, and Red-tailed Tropicbirds on Tern Island, French Frigate Shoals: implementing new statistical methods for plot-based estimates of reproductive parameters. U.S. Fish & Wildlife Service, Honolulu, Hawaii.
- Anders AD and Dearborn DC. 1996. Phenology, reproductive success, and correlates of nest fate of Masked Boobies on Tern Island, French Frigate Shoals, since colonization (1987-1995). U. S. Fish and Wildlife Service, Honolulu, Hawaii.
- Anders AD and Dearborn DC. 1996. Reproductive success of White Terns on Tern Island, French Frigate Shoals, 1994-95. U. S. Fish and Wildlife Service, Honolulu, Hawaii.
- Williams J, Douglas H, Dearborn DC, Barclay S, and Byrd V. 1990. Nesting survey for Aleutian Canada geese on Agattu I., Alaska, in 1990. U. S. Fish and Wildlife Service, Adak, Alaska.

### MANUSCRIPTS IN REVIEW

- Mauck R, Adrianowycz S\*, Hedd A, Pollet I, McFarlane Tranquilla L, Montevicchi WA, McMahon C, Acker H\*, Taylor L\*, McMahon J, Dearborn DC. In review. Female and male Leach's Storm-Petrels pursue different foraging strategies during the incubation period. *Ibis*.

### PRESENTATIONS

- Dearborn DC, Warren S\*, Hailer F. January 2020. Diversity and Selection at MHC Class II-A Genes: the Neglected Half of the Vertebrate Immune System's Heterodimer. Society for Integrative and Comparative Biology, Austin, TX.
- Dearborn DC. March 2019. Smithsonian Institution's Center for Conservation Genomics. Evolution of the major histocompatibility complex.
- Dearborn DC. June 2018. Plenary speaker at EBBA Annual Meeting, Schoodic Institute. Genetics and ecology of diseases in wild birds.
- Dearborn DC. December 2017. Bowdoin College Library. Audubon double-elephant folio: yellowthroats and evolution.
- Dearborn DC, Gager AB, McArthur AG, Gilmour ME, Mandzhukova E, and Mauck RA. January 2017. How to get diverse MHC genotypes without disassortative mating. Society for Integrative and Comparative Biology, New Orleans.
- Dearborn DC. December 2016. Bates College, Phillips Fellowship Dinner. The evolution of disease resistance: why sex matters.

- Mauck RA, Adrianowycz S, McMahon C, Acker H, Taylor L, Dearborn DC. September 2016. Sex-specific foraging behaviour during the incubation period in Leach's storm-petrels. 6<sup>th</sup> International Albatross and Petrel Conference, Barcelona.
- Dearborn DC. March 2016. Cardiff University, Division of Organisms and the Environment. Mate choice and the evolution of the major histocompatibility complex.
- Dearborn DC. February 2016. Cardiff University, Molecular Ecology Group. Mate choice and the major histocompatibility complex.
- Dearborn DC. October 2015. The College of Wooster, Department of Biology.
- Dearborn DC. September 2015. Kenyon College, Department of Biology.
- Dearborn DC. June 2015. Daily Planet Theater, North Carolina Museum of Natural History.
- Dearborn DC. November 2014. How Darwin's mind worked. Dorothy Schwartz Forum on Art, Science, and the Humanities, Maine Humanities Council, Portland, ME.
- Dearborn DC. April 2013. Southern Maine Community College.
- Dearborn DC. November 2012. Longwood University, Department of Biology.
- Dearborn DC. October 2012. University of Maine, Department of Wildlife Ecology.
- Dearborn DC, Hanley D, Ballantine K, Cullum J, Reeder D. June 2012. Dietary antioxidants, maternal identity, and eggshell color, in *Invited Symposium on Communication*. Animal Behavior Society, Albuquerque, NM.
- Dearborn DC. November 2011. University of Southern Maine.
- Wellens KR, Dearborn DC, Latta SC. November 2011. Colony formation and nest preference in Galápagos blue-footed boobies (*Sula nebouxii*). Neotropical Ornithology Congress, Cusco, Peru. [poster]
- Dearborn DC. October 2011. University of Maine, School of Biology & Ecology.
- Dearborn DC. April 2011. Bowdoin College.
- Dearborn DC and Juola FA. April 2011. Sequence-based evidence for MHC-disassortative mate choice in a colonial seabird. Maine Biological and Medical Sciences Symposium, Mount Desert Island Biological Lab, Salisbury Cove, ME.
- Dearborn DC. November 2010. University of Miami.
- Gilmour ME, Lattin C, Romero M, Haussmann M, and Dearborn DC. March 2011. Physiological ecology and reproductive effort in a migratory seabird. Kalman Research Symposium, Bucknell University. [poster]
- Dearborn DC. October 2010. Reproductive ecology of Hawaiian seabirds. Stanton Bird Club Annual Dinner, Lewiston, ME.
- Dearborn DC. April 2010. Villanova University.
- Mantush AM, Juola FA, and Dearborn DC. March 2010. Inbreeding and immune function in great frigatebirds. Kalman Research Symposium, Bucknell University. [poster]
- Dearborn DC, Mantush AM, Juola FA. February 2010. Inbreeding and immune function in great frigatebirds. American Ornithologists' Union, San Diego, CA.
- Juola FA, Dearborn DC, Searcy WA. February 2010. Mhc and mate choice in the great frigatebird (*Fregata minor*). American Ornithologists' Union, San Diego, CA.
- Dearborn DC. January 2010. Bates College.
- Dearborn DC. October 2009. Mate choice and defense against disease – is inbreeding bad for birds' immune function? State College Bird Club, State College, PA.
- Dearborn DC. July 2009. Inbreeding, immunocompetence, and emerging infectious diseases in wild animal populations. Bowdoin Scientific Station, Kent Island, New Brunswick, Canada.
- Dearborn DC. February 2009. Bucknell University.

- Dearborn DC, MacDade LS, Robinson S, Fink ADD, Fink ML. August 2008. Offspring development mode and the evolution of brood parasitism. International Society for Behavioral Ecology, Cornell University.
- Dearborn DC. July 2008. Offspring development mode and the evolution of brood parasitism: the thorny case of *Coccyzus* cuckoos. Bowdoin Scientific Station, Kent Island, New Brunswick, Canada.
- Dearborn DC. April 2008. Tev Aviv University.
- Dearborn DC. March 2008. Hebrew University, Jerusalem.
- Dearborn DC. March 2008. Ecology and conservation of seabirds: Hawaii and New Zealand. Ornithological Society of New Zealand, Auckland, New Zealand.
- Dearborn DC. December 2007. University of Auckland.
- Juola FA, McGraw K, Dearborn DC. July 2007. Carotenoids and throat pouch coloration in the great frigatebird *Fregata minor*. Animal Behavior Society, University of Vermont.
- Dearborn DC. July 2007. Prisoner's Dilemma and parental effort decisions in seabirds with short-term pair bonds. Bowdoin Scientific Station, Kent Island, New Brunswick, Canada.
- Dearborn DC. May 2007. Kenyon College.
- Cullum JF and Dearborn DC. March 2007. Does the saturation of blue-green egg pigmentation vary with laying order in gray catbirds (*Dumetella carolinensis*)? Kalman Research Symposium, Bucknell University. [poster]
- Hanley D, Dearborn DC. October 2006. Conspicuous blue-green egg pigmentation as a determinant of male parental care in *Dumetella carolinensis*. North American Ornithological Conference, Veracruz, Mexico.
- Dearborn DC. October 2006. Smithsonian Institution.
- Dearborn DC. February 2006. Does male competition for nest material allow female frigatebirds to directly assess male parental quality? International meeting of the Pacific Seabird Group, Alyeska, Alaska.
- Dearborn DC. November 2005. Susquehanna University.
- Hanley D, Dearborn DC, Hawley D, and Dhondt A. November 2005. Color signals in avian species. National Sigma Xi meeting, Seattle, WA.
- Dearborn DC. May 2005. University of Hawaii.
- Dearborn DC and Anders AD. February 2005. Demography and reproductive ecology of great frigatebirds. Tern Island Field Station, Hawaii.
- Ciccotto P and Dearborn DC. March 2005. Periodical emergence of cicadas and the effects on brood parasitism by yellow-billed cuckoos. Kalman Research Symposium, Bucknell University. [poster]
- Dearborn DC. January 2005. Universidad Nacional Autónoma de México.
- Dearborn DC and Anders AD. November 2004. Demography and reproductive ecology of great frigatebirds. Northwestern Hawaiian Islands Third Scientific Symposium, Hawai'i Convention Center.
- Dearborn DC. October 2004. University of Delaware.
- Dearborn DC. April 2004. Oberlin College.
- MacDade LS and Dearborn DC. March 2004. The seasonal success of the yellow-billed cuckoo (*Coccyzus americanus*) as a facultative brood parasite. Kalman Research Symposium, Bucknell University. [poster]
- Shevlin LK and Dearborn DC. March 2004. Using genetic markers to identify parasitic offspring of yellow-billed cuckoos. Kalman Research Symposium, Bucknell University. [poster]
- Kavanaugh K and Dearborn DC. March 2004. The effects of food abundance on the frequency of brood parasitism and nesting behavior of the yellow-billed cuckoo (*Coccyzus americanus*). Kalman Research Symposium, Bucknell University.
- Dearborn DC. February 2004. Pennsylvania State University.
- Dearborn DC. November 2003. University of California at Berkeley.

- Dearborn DC. October 2003. University of Scranton.
- Hauber ME and Dearborn DC. August 2003. Measuring the costs of brood parasitism paid by hosts: mechanisms, life histories, and fitness. Meeting of the American Ornithologists' Union, University of Illinois. [Invited talk in symposium.]
- Dearborn DC, Anders AD, Schreiber EA, Adams RMM, and Mueller UG. August 2003. Inter-island movements and population differentiation in a pelagic seabird. Meeting of the American Ornithologists' Union, University of Illinois.
- Buchanan JB and Dearborn DC. March 2003. The relationship between nest predation and parental behavior of the Black-capped Vireo, *Vireo atricapillus*. Kalman Research Symposium, Bucknell University. [poster]
- Kostecke RM, Koloszar JA, and Dearborn DC. February 2003. Effect of a reduction in cattle number on brown-headed cowbird movement: implications for endangered songbirds. Texas Chapter of The Wildlife Society, Waco, TX.
- Dearborn DC. November 2002. Utica College.
- Dearborn DC, Cohen LB, and Anders AD. September 2002. Relatedness between mates in great frigatebirds. North American Ornithological Conference, New Orleans, LA.
- Juola F, Anders AD, and Dearborn DC. September 2002. The influence of parental age on reproductive success and chick growth rates in the Laysan albatross (*Diomedea immutabilis*). North American Ornithological Conference, New Orleans, LA. [poster]
- Cohen L and Dearborn DC. March 2002. Relatedness among mates in great frigatebirds (*Fregata minor*). Kalman Research Symposium, Bucknell University. [poster]
- Dearborn DC. October 2001. Villanova University.
- Dearborn DC and Ryan MJ. August 2001. A test of the Darwin-Fisher theory for the evolution of male secondary sexual traits in monogamous birds. Meeting of the American Ornithologists' Union. University of Washington. [poster]
- Ausen J, Witherspoon T, and Dearborn DC. April 2001. Is there a male-biased sex ratio in juvenile frigatebirds? Implications for mating system evolution. Southwestern University Undergraduate Research Symposium. [poster]
- Dearborn DC. March 2001. St. Mary's College of Maryland.
- Dearborn DC, Anders AD, and Flint EN. February 2001. Trends in reproductive success of Hawaiian seabirds: is guild membership a good criterion for choosing indicator species? Meeting of the Pacific Seabird Group, Hilo, HI. [poster, presented by E.N. Flint]
- Dearborn DC. February 2001. Bucknell University.
- Dearborn DC. January 2001. Willamette University.
- Dearborn DC. March 2000. University of Texas.
- Dearborn DC. March 2000. Southwestern University.
- Dearborn DC. August 1999. The role of body condition in parental investment decisions of great frigatebirds (*Fregata minor*). Meeting of the American Ornithologists' Union, Cornell University.
- Dearborn DC. July 1999. The College of Wooster.
- Dearborn DC, Anders AD, and Parker PG. June 1999. What drives the evolution of exaggerated male secondary sexual traits in great frigatebirds? Meeting of the Animal Behavior Society, Bucknell University.
- Dearborn DC. October 1998. Ohio State University.
- Burhans DE, Dearborn DC, Thompson FR III, and Faaborg J. April 1998. Predation at old field nests: what factors are important? North American Ornithological Conference, St. Louis, MO.



- Dearborn DC. August 1997. Evolution of begging behavior: lessons from a brood parasite. Meeting of the American Ornithologists' Union, Boise State University.
- Dearborn DC. April 1997. Nestling behavior of a brood parasite: food acquisition and predation risk of brown-headed cowbirds. Dissertation defense seminar, University of Missouri.
- Dearborn DC. August 1996. Nestling behavior of a brood parasite: begging vocalizations and predation risk of brown-headed cowbirds. Meeting of the American Ornithologists' Union, University of Cincinnati.
- Dearborn DC. November 1995. Brown-headed cowbird nestling behavior. University of Missouri's Division of Biological Sciences Annual Retreat.
- Dearborn DC. February 1995. Local adaptation of reproductive traits in parapatric subspecies of the sage sparrow. Eco-lunch seminar, University of Missouri.
- Dearborn DC. October 1993. Tropical biology education and the Organization for Tropical Studies. University of Missouri's Division of Biological Sciences Annual Retreat.

### GRANT PROPOSALS FUNDED

- 2019-2021 NIH INBRE-RTF, *Parasites in nature: understanding the functional significance of genetic variation in the vertebrate immune system*. (\$55,560)
- 2018-2019 NIH INBRE-RTF, *Genomic diversity of the vertebrate immune system: the neglected half of the MHC Class II heterodimer*. (\$34,575)
- 2015-2016 Bates College Phillips Faculty Fellowship for full sabbatical plus research funds. (\$65,000)
- 2014 National Evolutionary Synthesis Center, with co-PI Frank Hailer of Cardiff University, *Balancing Selection and Mate Choice at the Major Histocompatibility Complex*. (\$8,000)
- 2012 Andrew Mellon Foundation, Colby-Bates-Bowdoin Collaborative Faculty Enhancement Grant, with collaborator Prof. Nat Wheelwright (Bowdoin College). *Creative pedagogical exchange for teaching the biology of birds*. (\$4,423)
- 2012 NIH-INBRE Faculty-Student Research Grant, *Lyme borreliosis: screening for Borrelia DNA in avian reservoir hosts*. (\$7,500)
- 2007-2009 National Science Foundation, *RUI: Does inbreeding reduce immunocompetence in natural populations?* (fully funded: \$67,535)
- 2008 Lady Davis Fellowship, for research at Hebrew University, Jerusalem; *Environmental change and invasive species*. (\$8,150)
- 2007-2008 The Eppley Foundation for Research, *The importance of coordinated parental care in seabirds*. (\$14,470).
- 2007-2008 Competitive ¾-Salary Sabbatical Grant, Bucknell University (\$17,250; declined after receipt of NSF grant)
- 2005 Faculty Scholarly Development Grant, Bucknell University for summer data analysis and genetics modeling project on evolution of facultative brood parasitism (\$4,000)
- 2004 International Research Travel Grant, Bucknell University to travel to Tern Island, French Frigate Shoals, for research on mate choice in great frigatebirds (\$3,000)
- 1999-2000 American Philosophical Society, *Sexual selection in a socially monogamous seabird with extravagant male traits*. (\$5,000)
- 1998-1999 University Postdoctoral Fellowship to work with Dr. Patricia Parker at The Ohio State University; *Sexual selection in a socially monogamous seabird with extravagant male traits*. (\$29,000)

- 1996-1997 US Forest Service North Central Forest Experiment Station, *Brown-headed cowbird nestling behavior and the cost of parasitism*. (\$15,000)
- 1995-1996 USFWS Region 3 Non-game Bird Research Program, *How are brown-headed cowbird nestlings adapted to be effective parasites?* (\$3,000)
- 1994 Competitive Research Award, University of Missouri, *Phenotypic plasticity and local adaptation of reproductive traits in sage sparrows*. (\$1,200)
- 1993 Organization for Tropical Studies Pilot Research Grant, *Wintering ecology of Kentucky warblers in Costa Rica*. (\$565)
- 1992 Competitive Research Award, University of Missouri, for Organization for Tropical Studies course tuition (\$1,100).

#### **EXAMPLES OF INSTITUTIONAL COMMITTEE MEMBERSHIPS**

- Committee on Faculty Governance**, Bates College, 2016-2020, and co-chair 2017-2019.
- Internal Review Committee** for Bates College Programs in American Culture Studies and African American Studies, 2016-2017.
- Personnel Committee for Tenure, Promotion, and Reappointment**, Bates College, 2013-2015.
- Bates Morse Mountain Advisory Committee**, Bates College, 2011- .
- Facilities Master Planning Steering Committee**, Bates College, 2010-2015.
- Biological Chemistry Program Committee**, Bates College, 2010-2015.
- Neuroscience Program Committee**, Bates College, 2010-2015.
- Chair, Internal Review Committee** for Bates College Mathematics Department, 2013.
- Institutional Animal Care and Use Committee**, Bates College, 2012-2013.
- Search Committee for VPAA / Dean of Faculty**, Bates College, 2012-2013.
- Search Committee, Director of Office of Diversity and Equity Resources**, Bates College, 2012.
- Garcelon Housing Steering Committee**, Bates College, 2011-2012.
- Institutional Review Board**, Bucknell University, 2008-2010.
- Curriculum Committee**, Bucknell University's College of Arts & Sciences, 2008-2010.
- Campus Master Planning Advisory Board**, Bucknell University, 2007-2008.
- Committee on Staff Planning**, Bucknell University, 2006-2007.
- Honors Council**, Bucknell University, 2002–2004, 2006-2007.
- EEOC Committee**, Bucknell University, 2002-2005.
- Biology Committee for Tenure, Promotion, and Reappointment**, Bucknell U., 2006-2007, 2008-2009.
- Library Representative**, Biology Dept. (2001–2004) and Animal Behavior Program (2001–2007).
- Advisor to Bucknell Climbing Club**, 2006-2008.
- Environmental Studies Committee**, Southwestern University, 2000–2001.
- Curriculum Committee**, University of Missouri Division of Biological Sciences, 1996–1997.
- Organizational Committee** for 2009 meeting of the American Ornithologists' Union.

#### **EXAMPLES OF OTHER SERVICE TO SCIENTIFIC COMMUNITY**

- External PhD Examiner**, Massey University (NZ), 2019.
- External Member of PhD Committee**, Cardiff University, 2017- .

**External Reviewer for Oberlin College Biology Department, 2012.**

**External PhD Examiner, University of Auckland, 2011.**

**External Honors Examiner, Kenyon College, Spring 2007.**

**External Member of PhD Committee, University of Miami, 2006-2010.**

**External Member of PhD Committee, Universidad Nacional Autónoma de México 2005.**

**External Member of PhD Committee, University of Manitoba, 2004.**

**Abstractor for Recent Ornithological Literature 1992–1997.**

**Elective Member of the American Ornithologists' Union (elected 2010).**

**Proposal reviewer for the *National Science Foundation*, the *National Geographic Society*, the *European Research Council*, the *National Science Centre of Poland*, the *American Bird Conservancy*, and the *Smithsonian Institution*.**

**Manuscript reviewer for** *American Naturalist*, *Atoll Research Bulletin*, *Animal Behaviour*, *Animal Cognition*, *the Auk*, *Behavioral Ecology*, *Behavioral Ecology & Sociobiology*, *Behaviour*, *Biological Conservation*, *Biology Letters*, *Bird Behavior*, *BMC Evolutionary Biology*, *Cells*, *the Condor*, *Conservation Biology*, *Conservation Genetics*, *Ecology & Evolution*, *Ethology*, *Evolution*, *Functional Ecology*, *Great Basin Naturalist*, *Hormones & Behavior*, *Ibis*, *Journal of Animal Ecology*, *Journal of Avian Biology*, *Journal of Field Ornithology*, *Journal of Experimental Biology*, *Journal of Wildlife Management*, *Journal of Zoology*, *Marine Biology*, *Marine Ornithology*, *Molecular Ecology*, *Natural Areas Journal*, *Nature: Scientific Reports*, *Northeastern Naturalist*, *Oecologia*, *Oikos*, *PLoS One*, *Proceedings of the Royal Society: Biological Sciences*, *Sandgrouse (Ornithological Society of the Middle East)*, *The Science of Nature (Naturwissenschaften)*, *Southeastern Naturalist*, *Wilson Journal of Ornithology*.