

MICHAEL D. SORENSON

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EDUCATION

University of Minnesota, Minneapolis
Ph.D. in Ecology, Evolution and Behavior, August 1990

Luther College, Decorah, Iowa
B.A. in Biology, May 1984
Honors: Summa Cum Laude, Phi Beta Kappa

PROFESSIONAL EXPERIENCE

Department of Biology, Boston University (1998 — present)

Professor, September 2010 — present
Department Chair, June 2010 — present
Associate Chair, September 2007 — May 2010
Associate Professor, September 2004 — August 2010
Assistant Professor, January 1998 — August 2004

Courses taught:

BI107 Biology I: Ecology, Behavior & Evolution (Fall 1999—2004, 2006—2009, 2014—2015)
BI303 Evolutionary Ecology (Fall 1998)
BI508 Behavioral Ecology (Spring 1999—2004, 2006—2008, 2010, 2012, 2014)
BI515 Population Genetics (Spring 2009, 2013; Fall 2014)
BI549 Molecular Phylogenetics and Evolution (Fall 1999, 2001, 2003, 2005, 2007)
BI581 Seminar in Biology: Phylogeography (Fall 2000)
BI581 Seminar in Biology: Beyond the Modern Synthesis (Fall 2008)
BI582 Seminar in Biology: Molecular Ecology (Spring 2003, Fall 2004)
BI582 Seminar in Biology: Population Genetics (Spring 2007)

Adjunct Research Investigator, University of Michigan Museum of Zoology, January 2001—

Research Associate, Department of Conservation and Research, National Zoological Park, Smithsonian Institution, March 1998—

Visiting Scholar, Harvard University Museum of Comparative Zoology, January—May 2005

Postdoctoral Fellow, Museum of Zoology, University of Michigan, July 1995—Dec 1997

National Science Foundation Postdoctoral Fellow, Molecular Genetics Laboratory, U.S. National Zoological Park, July 1993—June 1995

Smithsonian Institution Postdoctoral Fellow / Research Associate, Conservation and Research Center, U.S. National Zoological Park, August 1990—June 1995

Dissertation Research in Manitoba, 1986—1989:

Teaching Assistant, University of Minnesota, 1984—1988

Research Assistant, Delta Waterfowl and Wetlands Research Station, Manitoba, 1985

Research Assistant, University of Minnesota (fieldwork on sea otters in Alaska), 1984

FELLOWSHIPS & GRANTS

<i>DISSERTATION RESEARCH: Parent-embryo interactions in glassfrogs - female mating strategies, paternal effort, and adaptive plasticity in hatching, NSF (PI: K.M. Warkentin, co-PI: Sorenson; PhD Candidate: J.R.J. Delia)</i>	2015—2017	\$16,380
<i>EAGER: The Genomic Landscape of Species Divergence in an Extraordinary Avian Radiation, NSF (PI: Sorenson)</i>	2014—2016	\$149,902
<i>White-nose Syndrome Research at Boston University, Bat Conservation International (PI: Sorenson)</i>	2013—2016	\$225,000
<i>DISSERTATION RESEARCH: Bats, Bugs and Pecans: Using Next-Generation Pyrosequencing to Evaluate Ecosystem Services of Insectivorous Bats, NSF (PI: Sorenson; PhD Candidate: E.C. Braun de Torrez)</i>	2012—2015	\$14,969
<i>DISSERTATION RESEARCH: Speciation Genomics: Expanded Sampling of a Remarkable Avian Radiation, NSF (PI: Sorenson; PhD Candidate: K.F. Stryjewski)</i>	2012—2014	\$14,426
<i>Assessing population genetic structure and gene flow in the little brown myotis, Myotis lucifugus, Morris Animal Foundation (PI: T.H. Kunz; co-PI: Sorenson)</i>	2010—2014	\$196,759
<i>Sponsor for Martina Boerner, Postdoctoral Fellow, Marie Curie Actions – International Outgoing Fellowships, European Union</i>	2011—2013	\$148,232
<i>Speciation in Lonchura munias, an extraordinary example of rapid evolutionary diversification, National Geographic Society (PI: Sorenson)</i>	2011—2012	\$21,670
<i>DISSERTATION RESEARCH: RAD Phylogenetics: Harnessing Next-Generation Sequencing for Molecular Systematics, NSF (PI: Sorenson; PhD Candidate: J.M. DaCosta)</i>	2010—2013	\$13,223
<i>Multilocus Analyses of Speciation, Hybridization, and Population Structure in Brood Parasitic Indigobirds, NSF (PI: Sorenson)</i>	2007—2013	\$440,966
<i>REU supplements, NSF</i>	2007, 2008, 2011	\$19,500
<i>ROA supplement, NSF</i>	2011	\$10,352
<i>Immune Function, Body Composition and Genetic Correlates of Bat White-nose Syndrome, US Fish & Wildlife Service (PI: T.H. Kunz; co-PI: Sorenson)</i>	2010	\$105,000
<i>Ecology of Infectious Diseases: Ecological Influences on Rabies Infections in Bats, NSF/NIH (PI: G.F. McCracken, University of Tennessee)</i>	2004—2007	\$1,496,000
<i>(Boston University sub-award: co-PI: T.H. Kunz; senior persons: E.P. Widmaier, M.D. Sorenson)</i>	2004—2007	\$578,503
<i>Development of Additional Genetic Markers to Differentiate Mottled Ducks from Mallards and Hybrids in Florida, Florida Fish and Wildlife Conservation Commission (PI: Sorenson)</i>	2005—2006	\$20,000
<i>Conflicting Evidence in Waterfowl Systematics, NSF (PI: Sorenson; co-PI: H.F. James, Smithsonian Institution)</i>	2001—2006	\$190,970
<i>Speciation in Brood Parasitic Indigobirds, NSF (PI: Sorenson)</i>	2001—2005	\$269,714
<i>DISSERTATION RESEARCH: Genetic Diversity and Population Structure of Ectoparasitic Lice Associated with Brood Parasitic Finches Viduidae and their Estrildid Finch Hosts, NSF (PI: Sorenson; PhD Candidate: C.N. Balakrishnan)</i>	2003—2005	\$11,955
<i>An Automated DNA sequencer for the Department of Biology at Boston University, NSF (PI: Sorenson; co-PIs: Celenza, Finnerty, Schneider)</i>	2003—2005	\$102,887
<i>Hybridization Between Florida Mottled Ducks and Feral Mallards: An Assessment of the Florida Mottled Duck Genome, Wildlife Foundation of Florida & Florida Fish & Wildlife Conservation Commission (PI: Sorenson)</i>	2003—2004	\$24,329
<i>Population Genetics, Phylogeography, and Systematics of Black Ducks and Mallards, Delta Waterfowl Foundation (PI: Sorenson)</i>	2001—2004	\$56,500

<i>Collaborative Cross-Disciplinary Research in Ecology, Endocrinology, and Molecular Biology</i> , NSF REU Sites Program (PI: Kunz; co-PI: Sorenson)	2000—2003	\$163,500
Sponsor for Kristina Sefc, Postdoctoral Fellow, Austrian Science Fund	2000—2002	\$64,500
<i>Avian Ordinal Phylogeny Based on Mitochondrial DNA Sequences</i> , NSF (PI: D.P. Mindell, University of Michigan; co-PI: Sorenson)	1998—2002	\$210,803
REU supplements, NSF	1998—1999	\$15,000
National Science Foundation Postdoctoral Fellowship	1993—1995	\$69,600
Friends of the National Zoo (PI: SR Derrickson; co-PI: Sorenson)	1991—1994	\$41,000
Smithsonian Institution Postdoctoral Fellowship	1990—1991	\$21,000
Graduate Fellowships & Research Grants (various sources)	1984—1989	\$71,937

GRADUATE STUDENTS

- Marina Ramon (MA, 1999—2000, phylogeography of Caribbean hamlet fish *Hypoplectrus* spp., co-advised with Phil Lobel)
- Becki French (MA, 2001—2002, analysis of population differentiation among sympatric indigobird populations using amplified fragment length polymorphisms)
- Christopher N. Balakrishnan (PhD, 1999—2005, behavioral and population genetic tests of reproductive isolation among indigobird species in Cameroon)
- Violeta Muñoz-Fuentes (PhD, 2001—2005, visiting student from Estacion Biologica de Doñana, Spain, population genetics and hybridization of white-headed ducks and introduced ruddy ducks in Europe)
- Ryan J. Harrigan (PhD, 2001—2006, phylogeography and hybridization of mallards, black ducks, and mottled ducks)
- Kevin Yana Njabo (PhD, Jan. 2002—2006, phylogeography and systematics of montane forest birds in Cameroon)
- Tejashree Modak (MA, 2009—2011, molecular systematics and biogeography of Samoan land birds)
- Heather C. Shull (PhD, 2004—2012, molecular evolution and phylogenetics of estrildid and brood parasitic finches)
- Jeff DaCosta (PhD, 2007—2014, coalescent analyses of population structure and history in brood parasitic indigobirds)
- Aryn Wilder (PhD, 2009—2014, population genomics of little brown myotis, co-advised with T. H. Kunz, BU)
- Katherine Faust Stryjewski (PhD, 2008—present, speciation in the *Lonchura munias* of Papua New Guinea)

POSTDOCTORAL ASSOCIATES

- Kristina M. Sefc (2000—2003, indigobird speciation and population structure)
- Heidi Fisher (2006—2007, hybridization in swordtails *Xiphophorus*, co-advised by Gil Rosenthal, Texas A&M University)
- Marianne Moore (2010, MHC and white-nose syndrome in bats, co-advised with T. H. Kunz)
- Martina Boerner (2011—2013, genetic variation for fitness in buzzards, co-advised with Oliver Kruger, University of Bielefeld, Germany)
- Aryn Wilder (2014—present, immunogenomics of little brown myotis in relation to white-nose syndrome)

MEMBERSHIPS & PROFESSIONAL SERVICE

American Ornithologists Union
Elected Fellow, August 2009
Elective Member, April 1998
Student Awards Committee, 2002
Society for the Study of Evolution
Society of Systematic Biologists
Council Member, 2007-2009
Ernst Mayr Award Committee, 2008
Associate Editor, *Evolution: International Journal of Organic Evolution*, 2004—2006
Associate Editor, *Ibis: The International Journal of Avian Science*, 2009—2010
Evolutionary Genetics Panel – National Science Foundation, April 2010
Evolutionary Genetics Panel – National Science Foundation, October 2008
Evolutionary Genetics Panel – National Science Foundation, November 2007
Systematic Biology Panel – National Science Foundation, October 2003

BOSTON UNIVERSITY SERVICE

NEIDL Internal Advisory Committee (2015—present)
Charles River Campus IACUC (2008—2011), Chair (2009—2011)
Undergraduate Research Opportunities Program (UROP)
Faculty Advisory Committee (2004—2007)
Judge for Science Day poster competitions (2000—2004, 2009)
Co-director (with Prof. Thomas H. Kunz) of National Science Foundation Research Experience for Undergraduates Site program (2000—2002)

Biology Department

Department Chair (2010—2016)
Chair, Integrative Neurobiology Search Committee (2013—2015)
Chairman's Advisory Committee (2005—2010)
Director, DNA Sequencing Core Facility (1998—2007)
Computer / Web Page Committee (1998—1999, 2007 - 2010)
Chair, Web Page Redesign Committee (2007—2008)
Supervisor for Departmental IT Support Staff Person (2007—2010)
APT Committee (2005—2007)
Chair, Evolutionary Genomics Search Committee (2009—2010)
Chair, Marine Biology Search Committee (2008—2009)
Evolutionary Biology Search Committee (2000—2001)
Evolutionary Ecology Search Committee (1999—2000)
Evolutionary Developmental Biology Search Committee (1998—1999)
Graduate Admissions Committee (1998—2000)
Ecology, Behavior and Evolution Seminar Series Coordinator (2001—2002)
Faculty Merit Review Committee (2006, 2007)
Library Committee (1999—2000, 2003—2004)
Honors Biology (BI107 HC) Participating Faculty (2000—2009)

FIELD EXPERIENCE

Waterfowl: Manitoba (7 seasons, 22 months total), Alberta, Wisconsin, Nevada, Minnesota, New York; Bahamas (4 trips, New Providence, Abaco, Great Inagua, Long Island)

Songbirds: Papua New Guinea; Africa (7 trips): Cameroon (3 trips), Tanzania (2 trips), Zimbabwe/Zambia, Gambia/Guinea

PUBLICATIONS

- DaCosta, J.M. & M.D. Sorenson. In press. ddRAD-seq phylogenetics based on nucleotide, indel, and presence-absence polymorphisms: analyses of two avian genera with contrasting histories. *Molecular Phylogenetics and Evolution*.
- Ebel, E.R., J.M. DaCosta, M.D. Sorenson, R.I. Hill, A.D. Briscoe, K.R. Willmott & S.P. Mullen. 2015. Rapid diversification associated with ecological specialization in Neotropical *Adelpha* butterflies. *Molecular Ecology* 24: 2392-2405.
- DaCosta, J.M. & M.D. Sorenson. 2014. Amplification biases and consistent recovery of loci in a double-digest RAD-seq protocol. *PLoS One* 9: e106713.
- DaCosta, J.M. & M.D. Sorenson. 2014. An experimental test of host song mimicry as a species recognition cue in brood parasitic indigobirds (*Vidua* spp.). *The Auk: Ornithological Advances* 131: 549-558.
- Spottiswoode, C.N., K.F. Stryjewski, S. Quader, J.F.R. Colebrook-Robjent & M.D. Sorenson. 2011. Ancient host specificity within a single species of brood parasitic bird. *Proceedings of the National Academy of Science USA* 43: 17738-17742.
- Sorenson, M.D. & J.M. DaCosta. 2011. Genotyping HapSTR loci: phase determination from direct sequencing of PCR products. *Molecular Ecology Resources* 11: 1068-1075.
- Turmelle, A.S., T.H. Kunz & M.D. Sorenson. 2011. A tale of two genomes: Contrasting patterns of phylogeographic structure in a widely distributed bat. *Molecular Ecology* 20: 357-375.
- Culumber, Z.W., H.S. Fisher, M. Tobler, M. Mateos, P.H. Barber, M.D. Sorenson & G.G. Rosenthal. 2011. Replicated hybrid zones of *Xiphophorus* swordtails along an elevational gradient. *Molecular Ecology* 20: 342-356.
- Mertl, A.L., M.D. Sorenson & J.F.A. Traniello. 2010. Community-level interactions and functional ecology of major workers in the hyperdiverse ground-foraging *Pheidole* (Hymenoptera, Formicidae) of Amazonian Ecuador. *Insectes Sociaux* 57: 441-452.
- Sorenson, M.D., M.E. Hauber & S.R. Derrickson. 2010. Sexual imprinting misguides species recognition in a facultative interspecific brood parasite. *Proceedings of the Royal Society of London, Series B* 277: 3079-3085.
- McCracken, K.G., C.P. Barger & M.D. Sorenson. 2010. Phylogenetic and structural analysis of the HbA (a^A/b^A) and HbD (a^D/b^A) hemoglobin genes in two high-altitude waterfowl from the Himalayas and the Andes: bar-headed goose (*Anser indicus*) and Andean goose (*Chloephaga melanoptera*). *Molecular Phylogenetics and Evolution* 56: 649-658.
- Bulgarella, M., M.D. Sorenson, J.L. Peters, R.E. Wilson & K.G. McCracken. 2010. Phylogenetic relationships of *Amazonetta*, *Speculanas*, *Lophonetta*, and *Tachyeres*: four morphologically divergent duck genera endemic to South America. *Journal of Avian Biology* 41: 186-199.
- McCracken, K.G., C.P. Barger, M. Bulgarella, K.P. Johnson, S.A. Sonsthagen, J. Trucco, T.H. Valqui, R.E. Wilson, K. Winker & M.D. Sorenson. 2009. Parallel evolution in the major hemoglobin genes of eight species of Andean waterfowl. *Molecular Ecology* 18: 3992-4005.

PUBLICATIONS (CONT.)

- Krüger, O., M.D. Sorenson & N.B. Davies. 2009. Does coevolution promote species richness in parasitic cuckoos? *Proceedings of the Royal Society of London, Series B* 276: 3871-3879.
- Njabo, K.Y. & M.D. Sorenson. 2009. Origin of Bannerman's turaco in relation to historical climate change and the distribution of West African montane forests. *Ostrich: Journal of African Ornithology* 80: 1-7.
- Campbell, B.C., P.B. Gray, D.T.A. Eisenberg, P. Ellison & M.D. Sorenson. 2009. Androgen receptor CAG repeats and body composition among Ariaal men. *International Journal of Andrology* 32: 140-148.
- Balakrishnan, C.N., K.M. Sefc & M.D. Sorenson. 2009. Incomplete reproductive isolation following host shift in brood parasitic indigobirds. *Proceedings of the Royal Society of London, Series B* 276: 219-228.
- Harrigan, R.J., M.E. Mazza & M.D. Sorenson. 2008. Computation versus cloning: evaluation of two methods for haplotype determination. *Molecular Ecology Resources* 8: 1239-1248.
- Muñoz-Fuentes, V., A.J. Green & M.D. Sorenson. 2008. Comparing the genetics of wild and captive populations of white-headed ducks *Oxyura leucocephala*: consequences for recovery programmes. *Ibis* 150: 807-815.
- Njabo, K.Y., R.C.K. Bowie & M.D. Sorenson. 2008. Phylogeny, biogeography and taxonomy of the African wattle-eyes (Aves: Passeriformes: Platysteiridae). *Molecular Phylogenetics and Evolution* 48: 136-149.
- Eisenberg, D.T.A., B. Campbell, P.B. Gray & M.D. Sorenson. 2008. Dopamine receptor genetic polymorphisms and body composition in undernourished pastoralists: An exploration of nutrition indices among nomadic and recently settled Ariaal men of northern Kenya. *BMC Evolutionary Biology* 8: 173.
- Brown, J.W., J.S. Rest, J. García-Moreno, M.D. Sorenson & D.P. Mindell. 2008. Strong mitochondrial DNA support for a Cretaceous origin of modern avian lineages. *BMC Biology* 6: 6.
- Chilton, G. & M.D. Sorenson. 2007. Genetic identification of eggs purportedly from the extinct Labrador duck. *The Auk* 124: 962-968.
- Sefc, K.M., R.B. Payne & M.D. Sorenson. 2007. Single base errors in PCR products from avian museum specimens. *Conservation Genetics* 8: 879-884.
- Krüger, O., N.B. Davies & M.D. Sorenson. 2007. The evolution of sexual dimorphism in parasitic cuckoos: sexual selection or coevolution? *Proceedings of the Royal Society of London, Series B* 274: 1553-1560.
- Brennan, P.L.R., R.O. Prum, K.G. McCracken, M.D. Sorenson, R.E. Wilson & T.R. Birkhead. 2007. Coevolution of male and female genital morphology in waterfowl. *PLoS ONE* 2: e418.
- Payne, R.B. & M.D. Sorenson. 2007. Integrative systematics at the species level: plumage, songs and molecular phylogeny of quail-finch *Ortygospiza*. *Bulletin of the British Ornithological Club* 127: 4-26.
- Muñoz-Fuentes, V., C Vilà, A.J. Green, J.J. Negro & M.D. Sorenson. 2007. Hybridization between white-headed ducks and introduced ruddy ducks in Spain. *Molecular Ecology* 16: 629-638.
- Sefc, K.M., R.B. Payne & M.D. Sorenson. 2007. Genetic differentiation after founder events: an evaluation of F_{ST} estimators with empirical and simulated data. *Evolutionary Ecology Research* 9: 21-39.
- Balakrishnan, C.N. & M.D. Sorenson. 2007. Dispersal ecology versus host specialization as determinants of ectoparasite distribution in brood parasitic indigobirds and their estrildid finch hosts. *Molecular Ecology* 16: 217-229.
- Muñoz-Fuentes, V., A. J. Green, M. D. Sorenson, J. J. Negro & C. Vilà. 2006. The ruddy duck *Oxyura jamaicensis* in Europe: natural colonisation or human introduction? *Molecular Ecology* 15: 1441-1454.

PUBLICATIONS (CONT.)

- Balakrishnan, C.N. & M.D. Sorenson. 2006. Song discrimination suggests premating isolation among sympatric indigobird species and host races. *Behavioral Ecology* 17: 473-478.
- Barlow, C.R., R.B. Payne, L.L. Payne & M.D. Sorenson. 2006. Sierra Leone prinia *Schistolais leontica* in the Fouta Djallon of Guinea, its song, distribution and taxonomic status. *Bulletin of the African Bird Club* 13: 45-48.
- Muñoz-Fuentes, V., A.J. Green, J.J. Negro & M.D. Sorenson. 2005. Population structure and loss of genetic diversity in the endangered white-headed duck, *Oxyura leucocephala*. *Conservation Genetics* 6: 999-1015.
- Kulikova, I.V., S.V. Drovetski, D.D. Gibson, R.J. Harrigan, S. Rohwer, M.D. Sorenson, K. Winker, Y.N. Zhuravlev & K.G. McCracken. 2005. Phylogeography of the mallard (*Anas platyrhynchos*): hybridization, dispersal, and lineage sorting contribute to complex geographic structure. *The Auk* 122: 949-965.
- Edwards, S.V., S.B. Kingan, J.D. Calkins, C.N. Balakrishnan, W.B. Jennings, W.J. Swanson & M.D. Sorenson. 2005. Speciation in birds: genes, geography, and sexual selection. *Proceedings of the National Academy of Science USA* 102: 6550-6557.
- Sefc, K.M., R.B. Payne & M.D. Sorenson. 2005. Genetic continuity of brood parasitic indigobird species in space and time. *Molecular Ecology* 14: 1407-1419.
- Sorenson, M.D. & R.B. Payne. 2005. A molecular genetic analysis of cuckoo phylogeny. Pp. 68-94 in R.B. Payne. *Bird Families of the World: Cuckoos*. Oxford University Press.
- McCracken, K.G. & M.D. Sorenson. 2005. Is homoplasy or lineage sorting the source of incongruent mtDNA and nuclear gene trees in the stiff-tailed ducks (*Nomonyx-Oxyura*)? *Systematic Biology* 54: 35-55.
- Payne, R.B., C.R. Barlow, C.N. Balakrishnan & M.D. Sorenson. 2005. Song mimicry of black-bellied firefinch *Lagonosticta rara* and other finches by brood-parasitic indigobirds *Vidua camerunensis* in West Africa. *The Ibis* 147: 130-143.
- Cracraft, J., F.K. Barker, M. Braun, J. Harshman, G.J. Dyke, J. Feinstein, S. Stanley, A. Cibois, P. Schikler, P. Beresford, J. García-Moreno, M.D. Sorenson, T. Yuri & D.P. Mindell. 2004. Phylogenetic relationships among modern birds (Neornithes): toward an avian tree of life. Pp. 468-489 in J. Cracraft and M. J. Donoghue, eds. *Assembling the Tree of Life*. Oxford University Press, New York.
- Payne, R.B. & M.D. Sorenson. 2004. Behavioral and genetic identification of a hybrid *Vidua*: maternal origin and mate choice in a brood-parasitic finch. *The Auk* 121: 156-161.
- Sorenson, M.D., C.N. Balakrishnan & R.B. Payne. 2004. Clade-limited colonization in brood parasitic finches (*Vidua* spp.). *Systematic Biology* 53: 140-153.
- Sefc, K.M., R.B. Payne & M.D. Sorenson. 2003. Microsatellite amplification from museum feather samples: the effects of fragment size and template concentration on genotyping errors. *The Auk* 120: 982-989.
- Ramon, M.L., P.S. Lobel & M.D. Sorenson. 2003. Lack of mitochondrial genetic structure in hamlets (*Hypoplectrus* spp.): recent speciation or ongoing hybridization? *Molecular Ecology* 12: 2975-1980.
- Payne, R.B. & M.D. Sorenson. 2003. Museum collections as sources of genetic data. In G. Rheinwald, ed. *Bird Collections in Europe: the Challenge of Mutual Cooperation*. *Bonner Zoologische Beiträge* 51 (2002): 97-104.
- Sorenson, M.D., E. Oneal, J. García-Moreno & D.P. Mindell. 2003. More taxa, more characters: the hoatzin problem is still unresolved. *Molecular Biology and Evolution* 20: 1484-1499.
- Sorenson, M.D., K.M. Sefc & R.B. Payne. 2003. Speciation by host switch in brood parasitic indigobirds. *Nature* 424: 928-931.

PUBLICATIONS (CONT.)

- García-Moreno, J., M.D. Sorenson & D.P. Mindell. 2003. Congruent avian phylogenies inferred from mitochondrial and nuclear DNA sequences. *Journal of Molecular Evolution* 57: 27-37.
- Sefc, K.M., R.B. Payne & M.D. Sorenson. 2003. Phylogenetic relationships of African sunbird-like warblers: moho *Hypergerus atriceps*, green hylia *Hylia prasina* and tit-hylia *Pholidornis rusbiae*. *The Ostrich* 74: 8-17.
- Balakrishnan, C.N., S.L. Monfort, A. Gaur, L. Singh & M.D. Sorenson. 2003. Phylogeography and conservation genetics of Eld's Deer (*Cervus eldi*). *Molecular Ecology* 12: 1-10.
- Sorenson, M.D. & R.B. Payne. 2002. Molecular genetic perspectives on avian brood parasitism. *Integrative and Comparative Biology* 42: 388-400.
- Payne, R.B., K. Hustler, R. Sternstedt, K.M. Sefc & M.D. Sorenson. 2002. Behavioural and genetic evidence of a recent population switch to a novel host species in brood parasitic indigobirds *Vidua chalybeata*. *Ibis* 144: 373-383.
- Arnold, T.W., M.G. Anderson, M.D. Sorenson & R.B. Emery. 2002. Survival and philopatry of female redheads breeding in southwestern Manitoba. *Journal of Wildlife Management* 66: 162-169.
- Paxinos, E.E., H.F. James, S.L. Olson, M.D. Sorenson, J. Jackson & R.C. Fleischer. 2002. MtDNA from fossils reveals a radiation of Hawaiian geese recently derived from the Canada goose (*Branta canadensis*). *Proceedings of the National Academy of Science USA* 99: 1399-1404.
- Sorenson, M.D. & R.B. Payne. 2001. A single, ancient origin of obligate brood parasitism in African finches: implications for host-parasite coevolution. *Evolution* 55: 2550-2567.
- Sefc, K.M., R.B. Payne & M.D. Sorenson. 2001. Characterization of microsatellite loci in village indigobirds *Vidua chalybeata* and cross-species amplification in estrildid and ploceid finches. *Molecular Ecology Notes* 1: 252-254.
- Cao, Y., M.D. Sorenson, Y. Kumazawa, D.P. Mindell & M. Hasegawa. 2000. Phylogenetic position of turtles among amniotes: evidence from mitochondrial and nuclear genes. *Gene* 259: 139-148.
- Gibbs, H.L., M.D. Sorenson, K. Marchetti, M.L. Brooke, N. B. Davies & H. Nakamura. 2000. Genetic evidence for female host races of the common cuckoo. *Nature* 407: 183-186.
- McCracken, K.G., J. Harshman, M.D. Sorenson & K.P. Johnson. 2000. Are ruddy ducks and white-headed ducks the same species? *British Birds* 93: 394-398.
- Johnson, K.P., F. McKinney, R. Wilson & M.D. Sorenson. 2000. The evolution of post-copulatory displays in dabbling ducks (Anatini): a phylogenetic perspective. *Animal Behaviour* 59: 953-963.
- Payne, R.B., L.L. Payne, J.L. Woods & M.D. Sorenson. 2000. Imprinting and the origin of parasite-host species associations in female brood parasitic indigobirds, *Vidua chalybeata*. *Animal Behaviour* 59: 69-81.
- Sorenson, M.D., A. Cooper, E. Paxinos, T.W. Quinn, H.F. James, S.L. Olson & R.C. Fleischer. 1999. Relationships of the extinct moa-nalos, flightless Hawaiian waterfowl, based on ancient DNA. *Proceedings of the Royal Society of London, Series B* 266: 2187-2193.
- Sorenson, M.D., J.C. Ast, D.E. Dimcheff, T. Yuri & D.P. Mindell. 1999. Primers for a PCR-based approach to mitochondrial genome sequencing in birds and other vertebrates. *Molecular Phylogenetics and Evolution* 12: 105-114.
- Johnson, K.P. & M.D. Sorenson. 1999. Phylogeny and biogeography of the dabbling ducks (Genus: *Anas*): A comparison of molecular and morphological evidence. *The Auk* 116: 792-805.
- Johnson, K.P., F. McKinney & M.D. Sorenson. 1999. Phylogenetic constraint on male parental care in the dabbling ducks. *Proceedings of the Royal Society of London, Series B* 266: 759-763.
- Mindell, D.P., M.D. Sorenson, D.E. Dimcheff, M. Hasegawa & T. Yuri. 1999. Interordinal relationships of birds and other reptiles based on whole mitochondrial genomes. *Systematic Biology* 48: 138-152.

PUBLICATIONS (CONT.)

- Mindell, D.P., M.D. Sorenson & D.E. Dimcheff. 1998. An extra nucleotide is not translated in mitochondrial ND3 of some birds and turtles. *Molecular Biology and Evolution* 15: 1568-1571.
- Mindell, D.P., M.D. Sorenson & D.E. Dimcheff. 1998. Multiple independent origins of mitochondrial gene order in birds. *Proceedings of the National Academy of Science USA* 95: 10693-10697.
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PUBLICATIONS (CONT.)

Arnold, T.W. & M.D. Sorenson. 1988. A record early season for marsh-breeding birds in southwestern Manitoba. *Blue Jay* 46: 133-135.

COMPUTER PROGRAM

Sorenson, M.D. & E.A. Franzosa. 2007. *TreeRot*, version 3. Boston University, Boston, MA. (Available at: <http://people.bu.edu/msoren/TreeRot>)

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This program generates constraint statements that aid in the determination of support indices in phylogenetic analysis. Systematists have used the program extensively for analyses of both molecular and morphological data. The three versions of the program have been cited in over **1000** journal articles to date.

POPULAR ARTICLES

Payne, R.B. & M.D. Sorenson. 2006. Song lines. *NATURAL HISTORY* 115(7): 41 (September 2006).

Sorenson, M.D. 1992. The parasitic tactics of redhead ducks. *ANIMA: Magazine of Natural History*. No. 237: 78-81 (June 1992). Heibonsha Limited, Publishers: Tokyo.

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MANUSCRIPT/PROPOSAL REVIEWS

Acta Zoologica Sinica

American Naturalist

Animal Behaviour

Animal Conservation

The Auk: An International Journal of Ornithology

Behavioral Ecology

Behavioral Ecology and Sociobiology

Biological Journal of the Linnean Society

Biology Letters

Bird Behavior

BMC Evolutionary Biology

Canadian Journal of Zoology

Cladistics

Climatic Change

The Condor

Conservation Genetics

Ecology

Emu: Austral Ornithology

Ethology

Evolution

Evolutionary Ecology

Genetics

Genome

Hormones and Behavior

The Ibis: The International Journal of Avian Science

Journal of Avian Biology

Journal of Biogeography

Journal of Biological Systems

Journal of Experimental Biology

Journal of Field Ornithology

Journal of Great Lakes Research

Journal of Heredity

Journal of Theoretical Biology

Journal of Wildlife Management

Journal of Zoological Systematics and Evolutionary Research

Mitochondrial DNA

Molecular Biology and Evolution

Molecular Ecology

Molecular Ecology Resources

Molecular Phylogenetics and Evolution

Nature

PLoS Biology

PLoS Genetics

Prairie Naturalist

Proceedings of the National Academy of Sciences USA

Proceedings of the Royal Society of London B, Biological Sciences

Quarterly Review of Biology

Scopus (East African Journal of Ornithology)

Systematic Biology

Trends in Ecology and Evolution

Wilson Bulletin

Zoological Studies

The American Ornithologists Union

Chilean National Fund for Scientific & Technological Development (FONDECYT)

Delta Waterfowl & Wetlands Research Station

Finnish Academy of Science

Marsden Fund, Royal Society of New Zealand

National Geographic Society

National Science Foundation

Netherlands Organisation for Scientific Research (NWO)

INVITED CONFERENCE SYMPOSIA

- Frontiers in Phylogenetics Annual Symposium: Methods and Analysis of Coevolution Across Scales: From Within Genomes to Disease and Environments, National Museum of Natural History, September 2015
- Symposium: Genomic Approaches to Understanding Avian Speciation. AOU, COS, SCO Joint Meeting, Estes Park, Colorado, September 2014 (presentation by PhD student Katherine Stryjewski)
- Symposium: Avian Diversification in the Old World Tropics. American Ornithologists' Union, Chicago, Illinois, August 2013
- International Symposium on Avian Brood Parasitism, Haikou, Hainan, China, November 2012
- Symposium: Speciation. American Ornithologists' Union, Laramie, Wyoming, August 2007
- Symposium: Phylogenies and Behaviour. Association for the Study of Animal Behaviour, London, December 2004
- Symposium: Problems and Opportunities in Avian Deep Phylogenetics. 3rd North American Ornithological Conference, New Orleans LA. September 2002
- Symposium: Untangling Coevolutionary History. Society for Systematic Biology, Champaign-Urbana, Illinois, June 2002
- Symposium: Living Together: the Dynamics of Symbiotic Interactions. Society for Integrative and Comparative Biology, Chicago, Illinois, January 2001
- Symposium: Coevolution in Brood Parasitism, 22nd International Ethological Conference, Nagano, Japan, August, 1991
- Symposium: Parasitic Birds and Their Hosts, American Ornithologists' Union, Los Angeles, California, June, 1990

RECENT INVITED LECTURES (2008–2015)

- CIBIO - Centro de Investigação em Biodiversidade e Recursos Genéticos, Universidade do Porto, Portugal, December 2014
- Hoslett Memorial Lecture, Luther College, Decorah IA, October 2014
- Department of Biological Sciences, Wright State University, October 2013
- Department of Ecology and Evolution, Stony Brook University, December 2012
- Guest Lecture, OEB 190, Biology and Diversity of Birds, Harvard University, March 2012
- Department of Evolution Ecology and Organismal Biology, Ohio State University, April 2011
- 31st Annual Darwin Festival, Salem State College, Salem, MA, February 2010
- Department of Ecology and Evolutionary Biology, University of California Santa Cruz, September 2009
- Department of Ecology and Evolutionary Biology, University of California Los Angeles, September 2009
- California Academy of Sciences, San Francisco, September 2009
- Museum of Vertebrate Zoology, University of California Berkeley, September 2009
- National Geographic Society, Committee for Research and Exploration, Washington D.C., July 2009
- Institute for Genomic Biology, University of Illinois at Urbana-Champaign, May 2009
- Field Museum of Natural History, Chicago, IL, May 2009
- Guest Lecture, OEB 190, Biology and Diversity of Birds, Harvard University, April 2009
- “BioMixer”, Department of Biology, Boston University, December 2008