

Devin M. Drown

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Department of Biology
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Postdoctoral Researcher
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EDUCATION

- 2010 Ph.D. Zoology Washington State University, School of Biological Sciences, Pullman, WA. Co-advisors: Dr. Mark Dybdahl and Dr. Richard Gomulkiewicz
- 1996 B.A. Biology (honors) Grinnell College, Department of Biology, Grinnell, IA

PROFESSIONAL EXPERIENCE

- 2010-present *Postdoctoral Researcher, Indiana University*
Research on how transmission mode and population structure influence in host-symbiont coevolution. Advisor: Dr. Michael J. Wade
- 2007-2009 *IPEM Fellow, Washington State University*
Competitive training fellowship which required interdisciplinary coursework and novel research project spanning Biological and Anthropological fields.
- 2008 *Complex Systems Summer School, Santa Fe Institute*
Competitive training and interdisciplinary research in complex systems.
- 2004-2006 *Research Assistant, Washington State University*
Research on coevolution of hosts and parasites and the evolution of dispersal.
- 2002-2004 *Senior Research Technician, Boston University*
Molecular ecology research (population structure and mating systems) in marine fishes.
- 1997-2000 *Research Assistant, University of Utah*
Graduate studies with Dr. Dale Clayton on the coevolution of North American Doves and feather feeding lice resulting in multiple publications.
- 1997 *Lab Technician, University of Pittsburgh*
Assisted with greenhouse and field experiments in plant evolutionary ecology. Set up a molecular lab for population genetic work and trained and supervised lab technicians.
- 1996 *Research Assistant, Grinnell College*
Research on the molecular phylogenetics of North American oak galling Cynipid Wasps.

GRANTS

- 2012-2016 NIH 2R01GM084238-04: The effect of coinheritance on host-symbiont coevolution. Postdoc with PI Michael Wade (\$1,058,118)
- 2008-2010 NSF DDIG 0808424: Local Adaptation and Diversification in Parasites. Co-PI with PI Mark Dybdahl (\$12,000)

FELLOWSHIPS/AWARDS

- 2007-2009 NSF IGERT Fellowship: Program in Evolutionary Modeling, Washington State University
- 2009 Brislawn Graduate Fellowship, Washington State University
- 2007 McNeil Memorial Graduate Fellowship, Washington State University
- 2004, 2005 Graduate Scholar Award, Washington State University
- 1996 Smith Science Award, Grinnell College

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PUBLICATIONS [Citations in ISI Web of Science database as of March 2012: # at end]

- Drown DM**, Zee PC, Brandvain Y, and Wade MJ. *in revision*. Evolution of transmission mode in obligate symbionts.
- Drown DM**, Preuss KM, and Wade MJ. *in revision*. Evidence for synergistic effects of genomic conflict and sexual conflict from gene distributions
- Dybdahl MF and **Drown DM**. 2012. Response to comments on “The absence of genotypic diversity in a successful parthenogenetic invader” by Mark Dybdahl and Devin Drown [Biological Invasions 13 (2011), 1663–1672]. *Biological Invasions*.
- Drown DM**, Levri, EP and Dybdahl MF. 2011. Invasive genotypes are opportunistic specialists not general purpose genotypes. *Evolutionary Applications* 4: 132-143. [1]
- Dybdahl MF and **Drown DM**. 2011. Absence of genotypic diversity in a successful parthenogenetic invader. *Biological Invasions* 13: 1663-1672.
- Gomulkiewicz R, **Drown DM**, Dybdahl MF, Godsoe W, Nuismer SL, Pepin KM, Ridenhour BJ, Smith CI, and Yoder JB. 2007. Do’s and Don’ts of testing the geographic mosaic theory of coevolution. *Heredity* 98: 249–258. [53]
- Meekan MG, Vigliola L, Doherty PJ, **Drown DM**, Jones E, and Barber PH. 2007. Genetic identity determines risk of post-settlement mortality in a coral reef fish. *Ecology* 88: 1263–1277. [27]
- Moyer BR, **Drown DM**, and Clayton DH. 2002. Low humidity reduces ectoparasite pressure: implications for host life history evolution. *Oikos* 97: 223–228. [41]
- Johnson KP, Williams BL, **Drown DM**, Adams RJ, and Clayton DH. 2002. The population genetics of host specificity: Genetic differentiation in dove lice (Insecta: Phthiraptera). *Molecular Ecology* 11: 25–38. [62]
- Clayton DH and **Drown DM**. 2001. Critical evaluation of five methods for quantifying chewing lice (Insecta: Phthiraptera). *Journal of Parasitology* 87: 1291–1300. [70]
- Johnson KP, **Drown DM**, and Clayton DH. 2001. A data based parsimony method of cophylogenetic analysis. *Zoologica Scripta* 30: 79–87. [28]
- Drown DM** and Brown JM. 1998. Molecular phylogeny of North American oak-galling Cynipini (Hymenoptera: Cynipidae) supports need for generic revision. Pp 241–246. *The Biology of Gall-Inducing Arthropods* (Csoka, G., W. J. Mattson, G. N. Stone, and P. W. Price eds). Gen. Tech. Rep. NC-199. St. Paul, MN: U.S. Department of Agriculture, Forest Service, North Central Research Station. [4]
- PUBLICATIONS in prep
- Drown DM**, Dybdahl MF and Gomulkiewicz R. *in prep*. Antagonistic coevolution and the evolution of migration.
- Drown DM**, Dybdahl MF and Gomulkiewicz R. *in prep*. Evolution of dispersal with genetic structure and patch size variation.
- Drown DM**, and Dybdahl MF. *in prep*. Multiple potential sources invasive *Potamopyrgus antipodarum* in their ancestral range.

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INVITED SEMINARS

- Drown DM. 2010. Why organisms move: antagonistic coevolution and the evolution of migration. Brown Bag in Dept. of Biology at IU, Bloomington, IN.
- Drown DM. 2010. Understanding range expansion using a worldwide invasive snail and theoretical approaches. School of Biological Sciences Seminar Series, Pullman, WA.
- Drown DM. 2010. Why organisms move: Migration evolution under the influence of kin selection and antagonistic coevolution. Theta group at IU, Bloomington, IN.
- Drown DM. 2010. Why organisms move: Migration evolution under the influence of kin selection and antagonistic coevolution. EcoEvo Theory Group at UCLA, Los Angeles, CA.
- Drown DM and Boyette A. 2008. The evolution and transmission of disease avoidance behaviors. IPEM Seminar Series, Pullman, WA.
- Drown DM, Dybdahl MF, and Gomulkiewicz R. 2008 Modeling dispersal in a temporally dynamic spatial patchwork. Palouse Ecology Evolution Seminar series, Moscow, ID.

CONTRIBUTED PRESENTATIONS (most recent only) (*Talks)

- Drown DM, Zee PC, Brandvain Y, and Wade MJ. 2012. Evolution of transmission mode in obligate symbionts. Evolution 2012, First Joint Congress on Evolutionary Biology, Ottawa, Canada.*
- Drown DM, Zee PC, Brandvain Y, and Wade MJ. 2011. Evolution of transmission mode in obligate symbionts. ESEB: European Society for Evolutionary Biology, Tuebingen, Germany.
- Drown DM, Zee PC, Brandvain Y, and Wade MJ. 2011. Evolution of transmission mode in obligate symbionts. EEID: Ecology and Evolution of infection disease, Madison, WI.
- Drown DM and Dybdahl MF. 2010. Dispersal and range expansion in a worldwide invasive snail, *Potamopyrgus antipodarum*. EvoWIBO: Evolutionary biologists in the Pacific Northwest, Port Townsend, WA.
- Drown DM, Dybdahl MF, and Gomulkiewicz R. 2009. Migration evolution under the influence of antagonistic coevolution. Society for the Study of Evolution, Moscow, ID.*
- Drown DM, Dybdahl MF, and Gomulkiewicz R. 2008. Genetic structure, spatial structure, and the evolution of migration. EvoWIBO: Evolutionary biologists in the Pacific Northwest, Port Townsend, WA.
- Drown DM, Dybdahl MF, and Gomulkiewicz R. 2007 Evolution of migration in a coevolutionary system. Evolutionary Genetics of Host-Parasite Relationships, Roscoff, France.
- Drown DM and Dybdahl MF. 2006. Host phylogeography in a coevolutionary system: influence on parasite adaptation and cladogenesis. Society for the Study of Evolution, Stony Brook, NY.*

TEACHING EXPERIENCE

- 2011 *Indiana University*
Guest lecture: Coevolution-humans & diseases
- 2005-2010 *Washington State University*
Lab instructor: Introductory Organismal Biology, Marine Ecology; Guest lectures: Introduction to Mathematical Biology, Principles of Organic Evolution
- 2003 *Boston University*
Assistant in lecture and lab: Molecular Ecology and Evolution

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TEACHING EXPERIENCE (cont.)

- 1998-2000 *University of Utah*
Lab instructor: Molecular Evolution; Assistant in lecture: Principles of Ecology and Evolution, Principles of Biology II, Organismal Diversity Form and Function
- 1995-1996 *Grinnell College*
Assistant in lecture and lab: Molecular Genetics, Introduction to Evolution and Ecology, Structure and Function of Organisms

SERVICE and OUTREACH

- 2011-present Contributor to <http://nothinginbiology.org/> a blog on peer reviewed evolution research.
- 2009-present <http://coevolvers.blogspot.com/> blog on peer reviewed coevolution research.
- 2009-present Reviewer for The American Naturalist, Evolution, Molecular Ecology, and Journal of Theoretical Biology
- 2006-2010 Organizer for COEVOLVERS, a discussion and reading group of coevolution.
- 2007 Designed and installed display on speciation for the Conner Museum at WSU.
- 2004-present Member, Society for the Study of Evolution
- 2010-present Member, European Society for Evolutionary Biology