

Brian Dorsey Farrell

Professor of Organismic and Evolutionary Biology, Harvard University
Curator in Entomology, Museum of Comparative Zoology
Monique and Philip Lehner Professor for the Study of Latin America

<http://farrell.oeb.harvard.edu>

Education

Sloan Foundation Postdoctoral Fellow (1991-1992), Cornell University
M.S., Ph.D. (1985, 1991), University of Maryland
B.A. University of Vermont 1981

Employment

2018-present Monique and Philip Lehner Professor for the Study of Latin America
2018-2022 Faculty Dean, Leverett House, Harvard University
2014-2020 Director, David Rockefeller Center for Latin American Studies, Harvard University
2011-2012 Fulbright Visiting Professor, Universidad Autonoma de Santo Domingo (UASD), Santo Domingo, Dominican Republic
2010-present Bingzhi Forum Honorary Professor, Institute of Zoology, Chinese Academy of Sciences
2002-2003 Visiting Professor. Jardin Botánico Nacional, Santo Domingo, Dominican Republic
2001-present Professor of Biology, Department of Organismic and Evolutionary Biology; Curator in Entomology, Museum of Comparative Zoology, Harvard University
1998-2001 John. L. Loeb Associate Professor in the Natural Sciences, Department of Organismic and Evolutionary Biology, Associate Curator in Entomology, Museum of Comparative Zoology, Harvard University
1995-1998 Assistant Professor, Department of Organismic and Evolutionary Biology; Assistant Curator in Entomology, Museum of Comparative Zoology, Harvard University
1993-1995 Assistant Professor, Department of EPO Biology, University of Colorado.
1991-1992 Sloan Foundation Postdoctoral Fellow, Cornell University
1987-1991 Curatorial Fellow, Department of Entomology, Smithsonian Institution.
1982-1987 Graduate Teaching Fellow, Department of Entomology, University of Maryland

Current Teaching

OEB 10 Foundations of Biological Diversity, Course Head
FRSEM 22t Freshman Seminar: Why we animals sing
BIO S158 Biodiversity of Hispaniola

Honors, Awards, Grants

- 2020-2021 DRCLAS. Evolutionary history and timing of the *Tetraopes* beetle diversification in Mesoamerica. (\$12,835)
- 2016-2019 Climate Change Solutions Fund. The population biology of mosquito vectors of avian malaria and other infectious diseases in the Atlantic Forests of Brazil. (\$150,000)
- 2014-2015 Milton Fund. Evolution of plant-beetle interactions and next generation sequencing (\$40,000)
- 2013-2018 NSF TCN 1305066 Digitization TCN: Collaborative Research: Fossil Insect Collaborative: A Deep-Time Approach to Studying Diversification and Response to Environmental Change. (\$867,000, HU portion)
- 2014-2018 NSF DEB: Phylogeny and diversification in the uniquely diverse beetle family Curculionidae (true weevils). \$70,000 (HU portion)
- 2011-2012 Fulbright Scholar, UASD (\$54,500)
- 2010 DRCLAS. Support for shipping Herbarium cabinets donated by HUH to UASD and JBN (\$11,240)
- 2008 DRCLAS. Support for student digitization of herbarium specimens in the UASD (\$9,500).
- 2005-2010 NSF EF 0531768 Collaborative Research: “BTOL: Assembling the beetle tree of life” (\$1,679,185, HU portion)
- 2005 Awarded keys to the city of Santo Domingo, Dominican Republic, for service to the country
- 2004 Stone Foundation. Support for Boston Harbor Islands All Taxa Biotic Inventory (ATBI) (\$100,000)
- 2003–2006 NSF DBI 0237505. Adding high resolution digital images to the online database of insect primary types in the Museum of Comparative Zoology. (\$430,000)
- 2002–2005 NSF DEB 0206520. Biotic Surveys and Inventories. Documenting Vanishing Endemism: Insects and Plants of Montane Habitats in Hispaniola. (\$450,000)
- 2002–2005 NSF DEB 0072702. Participant in Arthropod Biodiversity from Rainforest to Cloud Forest, Project ALAS, Phase IV. (PI: G. Hartshorn plus 14 other participants)
- 2002–2004 NSF DDIG 0308815. Phylogeny of specialization in Neodiprion sawflies. To support dissertation research of Catherine Linnen. (\$10,500)
- 2002–2003 DRCLAS. For sabbatical support in the Dominican Republic and camera/computer equipment to establish a permanent bioinformatics center onsite. (\$20,000)
- 2002 DRCLAS. Travel grant to bring entomology class to Dominican Republic. (\$5,000)
- 2002 Putnam Fund for MCZ Expeditions. For fieldwork in Dominican Republic. (\$6,000)
- 2000–2002 NSF DDIG 0073291. The Evolution and Biogeography of Moneilema Beetle (Cerambycidae)/Cactus Interactions. To support dissertation research of Christopher Smith. (\$9,491)
- 2000–2002 NSF DDIG 0073330. The Phylogenetics and Molecular Genetics of Resource Specialization in the Seed Beetle Genus *Stator* (Coleoptera: Chrysomelidae: Bruchinae). To support dissertation research of Geoffrey Morse. (\$9,866)
- 1999 Putnam Fund for MCZ Expeditions. For fieldwork in Papua New Guinea and Australia. (\$12,000)

- 1998 Putnam Fund for MCZ Expeditions. For fieldwork in North America. (\$6,000)
- 1997 Putnam Fund for MCZ Expeditions. For fieldwork in Argentina. (\$9,000)
- 1996 Putnam Fund for MCZ Expeditions. For fieldwork in the Caribbean. (\$8,000)
- 1997–2000 USDA. Molecular Systematics of Bark Beetle Pests: Scolytidae and Platypodidae. (\$180,000)
- 1996–1998 NSF DDIG 9623763. Evolution of Resource Specialization in the Bark Beetle Genus *Dendroctonus*. To support dissertation research of Scott Kelley. (\$10,000)
- 1995–1996 Harvard University Faculty Aide Program. For support of undergraduate research assistants. (\$1,800)
- 1994–1996 USDA. Molecular Systematics of Psoroptes Mites and Evolution of Virulence. To support Dr. Robert Ramey of Cornell University. (\$80,000)
- 1994–1995 Swiss National Fellowship. Molecular Study of Hybrid Zone Between Specialist Milkweed Herbivores. To Support Dr. Suzanne Dobler of U. Basel. (\$80,000)
- 1994–1996 NSF Research Assistantships for Minority High School Students (RAMHSS). Supplement to NSF Award DEB 9306667. (\$2,500)
- 1994–1996 NSF Research Experience for Undergraduates (REU). Supplement to NSF Award DEB 9306667. (\$5,000)
- 1993–1996 NSF DEB 9306667. Molecular Systematics of the Chrysomelidae. (\$190,000)
- 1993–1994 University of Colorado Council for Research and Creative Work (CRCW). Molecular Systematic of the Chrysomelidae. (\$5,000)
- 1991 University of Maryland Annual Award for Excellence in Graduate Teaching and Research. (University-wide award presented by Sigma Xi). (\$1,000)
- 1991–1992 Alfred P. Sloan Foundation Postdoctoral Fellowship in Molecular Biology. Molecular Phylogenetic Study of Insect/Plant Coevolution: Are the Interactions as old as antagonists? (\$70,000)
- 1990 Maryland Agricultural Experiment Station (MAES) Grant. Phylogeny of the Tetraopini: Origins of Milkweed Feeding and Rates of Molecular Evolution. (Co-Principal Investigator with C. Mitter). (\$25,000)
- 1989 Maryland Agricultural Experiment Station (MAES) Grant. Coevolution of Tetraopes Beetles and their Milkweed Hostplants: A Phylogenetic Approach. (\$25,000)
- 1989–1990 Smithsonian Institution Biological Inventory in Latin America Program (BIOLAT). Determinants of Diversity and Abundance of Canopy Insects on Trees With/Without Latex/Resin Secretory Canals. (\$3,000/year)
- 1987–1990 Smithsonian Institution Scholarly Studies Program Grant. Herbivorous Insects of Tropical Forest Canopies Community Structure and Specialization. (\$60,000)
- 1986 American Museum of Natural History Theodore Roosevelt Memorial Fund. Evolutionary Origins of the Milkweed Herbivore Fauna: Tetraopes and Asclepias. (\$800)

Official Funded Visitorships

Official Visitor, Centre for Population Biology, Imperial College-Silwood Park, England

Official Visitor, Institute for Applied Science, Lyons, France

Professional Service/Activities

- 2004–2010 Trustee, LASPAU
- 2004–2006 Executive Committee Member, LASPAU/Fulbright Foundation
- 2004, 2011 Organizing Committee, V and VI Congreso de Biodiversidad, Santo Domingo, Republica Dominicana
- 2004 Organizing Committee, IX Congreso Latinoamericano de Botanica, Santo Domingo, Republica Dominicana
- 1995–1998 Associate Editor, Systematic Biology
- 1994–1995 Panel Member, NSF/Sloan Foundation Postdoctoral Program in Molecular Evolution
- 1994–1997 Panel Member, NSF Division of Environmental Biology, Systematic Biology Program
- 1997 Co-Organizer of Symposium: Higher level systematics of the Coleoptera. Entomological Society of America (ESA) National Meetings, Nashville, TN
- 1994 Co-Organizer of Symposium: Molecular systematics in the service of Entomology. ESA National Meetings, Dallas, TX
- 1993 Organizer of Symposium: Phylogenetics of interspecific interactions. Jointly sponsored by Society of Systematic Biology (SSB) and Society for the Study of Evolution (SSE). Annual meeting of SSB and SSE, Snowbird, UT
- 1990 Co-Organizer of Congressional Symposium: Diversification rates: Patterns, rates, causes, and consequences. International Congress of Systematic and Evolutionary Biology (ICSEB). College Park, MD
- 1990 Co-Organizer of Workshop: Evolucion y ecologia de insectos y plantas en Amazonas. Universidad de Iquitos, Iquitos, Peru
- 1990 Organizer of Program Symposium: Phylogenetics of insect/plant interactions. Entomological Society of America Annual Meetings, San Antonio, TX
- 1989 Co-Organizer of Symposium: Cladistic approaches to evolutionary innovation. Society for the Study of Evolution Annual Meetings, Pennsylvania State University
- 1985 Organizer of Systematics Symposium: Phylogeny and the evolution of life-history traits. Entomological Society of America Annual Meetings: Eastern Branch, Williamsburg, VA

Regular reviewer of manuscripts for: Science, Evolution, The American Naturalist, Ecology, Systematic Biology, Molecular Phylogenetics and Evolution, Molecular Biology and Evolution; occasional reviewer for six other journals.

Presentations & Invited talks

- 2020 • Everything we touch, touches us back: Culture, Biology, and Health, Cambridge, MA
- 2019 • Amazonia and Our Planetary Futures: A Conference on Climate Change (co-organizer), Cambridge, MA
- 2018 • Congreso Futuro, Chile
- 2017 • The David Rockefeller Beetle Collection, Cambridge, MA
• Biology of Consciousness, Cambridge, MA
- 2016 • Gran Foro de la Biodiversidad, Colciencias of Colombia, Bogotá, Colombia
- 2015 • Harvard-Brazil OEB Symposium, São Paulo, Brazil
- 2011 • Boston Harbor Islands Science Symposium, Cambridge, MA
• Symposium Universidad Autonoma Santo Domingo, Santo Domingo, DR
- 2006 • ESA National Meeting Symposium, Indianapolis. NSF: Tree of life meeting
• Biodiversity Symposium, CosmoCaixa Science Museum. Barcelona, Spain
- 2005 • Technology, Entertainment, Design (TED) Conference, Monterey, CA
• Keynote Address, V Congreso de Biodiversidad del Caribe, Santo Domingo, DR
- 2004 • Ecology and Evolutionary Biology, University of Michigan
• Department of Biology, Tufts University
- 2003 • Depto de Biología, Pontificia Universidad Católica Madre y Maestra
• Depto de Biología, Universidad Iberoamericano
• Symposium on Insect-Plant Interactions, Entomological Society of America
- 2002 • Dept. of Biology, Williams College; All-Species Group Workshop on e-Type Initiative, Smithsonian Institution
- 2001 • II Jornadas de Investigación del Instituto de Zoología Tropical, Universidad de Caracas, Venezuela
• Section of Ecology and Systematics, Cornell University
• Dept. of Entomology, Pennsylvania State University
• Institute of Applied Sciences- Lyons, France
- 2000 • Imperial College-Silwood Park
• Dept. of Biology, University of Neuchatel, Switzerland
• Two Entomological Society of America Symposia

- 1999
- International Botanical Congress, St. Louis, MO
 - Dartmouth College, Hanover, NH
 - University of Massachusetts, Amherst
 - University of Amsterdam, The Netherlands
 - University of Utah
 - University of Arizona
 - Missouri Botanical Gardens Systematics Symposium
 - Entomological Society of America Symposium 1998
 - National Congress of Entomology, Buenos Aires, Argentina
 - Gordon Conference on Insect/Plant Interactions, Ventura, CA
 - 10th International Symposium on Insect/Plant Interactions, Oxford University
 - Dept. of Entomology, University of Wisconsin
 - Centre for Population Biology, Imperial College at Silwood Park
 - Institute of Zoology, University of Freiburg
 - Dept. of Ecology and Evolution, SUNY- Stony Brook
- 1997
- Dept. of Entomology, University of Massachusetts
 - Dept. of Entomology, Pennsylvania State University
 - Dept. of Entomology, Michigan State University
 - American Museum of Natural History Seminar Series
 - Department of Entomology, UC- Berkeley
 - Dept. of Biological Sciences, Brown University
 - ESA National Meetings Symposium
- 1996
- Dept. of Biology, University of Vermont
 - Cambridge Entomological Club
 - Department of Biology, University of New Hampshire
 - Dept. of Biology, University of Connecticut
 - Dept. of Entomology, University of Arizona
 - Dept. of Entomology, North Carolina State University
 - International Congress of Entomology Symposium: Coevolution, Florence, Italy
 - Reunion Internacional de Ecología Química, Oaxtepec, Mexico
- 1995
- Centro de Ecología, Universidad Nacional Autónoma de México (UNAM)
 - Organismic and Evolutionary Biology, Harvard University
 - New England Botanical Club
- 1994
- Divisional Seminar, Washington University, St. Louis
 - International Congress of Ecology (INTECOL) Symposium: Rainforest Canopy Faunal Diversity, Manchester, England
 - First International Bark-Beetle Symposium, U. Calgary, Alberta
 - Dept. of Zoology, University of Nevada, Reno
 - ESA National Meetings Symposium: Molecular Insect Systematics (Dallas)

- 1993 • SSE/SSB Annual Meetings Symposium: Phylogenetics of Interspecific Interactions, Snowbird, UT
- Department of Zoology, University of British Columbia
 - Dept. of Biological Science, Simon Fraser University
 - Dept. of Entomology, Colorado State University
 - U. Colorado Mountain Research Station
- 1992 • Kansas Entomological Society Annual Symposium, University of Kansas
- ESA National Meetings Symposium: Molecular Insect Systematics, Baltimore
 - American Society of Zoologists Educational Symposium: Science as a Way of Knowing Biodiversity (SAAWOK:Vancouver)
 - Estacion Biologico de Chamela, Universidad Nacional Autonoma de Mexico
- 1991 • Dept. of Zoology, University of Texas, Austin
- Dept. of Entomology, University of Arizona, Tucson
 - Dept. of Environmental, Population and Organismic Biology, University of Colorado
 - Dept. of Entomology, University of Maryland; Society of Systematic Zoologists (SSZ, now SSB)
 - Annual Meetings Symposium: Phylogenetic Approaches to Evolutionary Biology (Honolulu)
- 1990 • Botany Dept., University of Maryland
- Universidad de Iquitos, Iquitos, Peru; Organization of Tropical Biologists Annual Meetings Symposium: Phylogenetics of Plant-Animal Interactions (AIBS)
 - International Congress of Systematic and Evolutionary Biology (ICSEB) Symposium: Diversification Rates (College Park, MD)
 - Section of Ecology and Systematics, Cornell University
 - Dept. of Botany, Iowa State University
 - ESA National Meetings Symposium: Phylogenetics of Insect/Plant Interactions (New Orleans)

Plus contributed papers at the National Meetings of the ESA (1990–1991, 1996, 2000–2004) and SSE/SSB (1992, 1996–2004)

University Service

Present committees: Chair, Hrdy Fellowship Committee; Board of Directors, LASPAU/Fulbright; Member, Harvard Center for the Environment.

Past Teaching: University of Maryland: Insect Systematics, Insect Morphology, General Entomology, Pest Biology; University of Colorado: Invertebrate Zoology, Field Course in Marine Invertebrates, Introductory Biology, Quantitative Methods in Comparative Biology.

Current and Graduated Students and Postdoctoral Fellows

Current Ph.D. Students: Major advisor for: Kaylin Chong and Sangil Kim

Current Ph.D. Committees:, Caitlin Baker, Jonathan Schmitt, Julia Cosgrove, Richard Childers, Shengyang Wang.

Completed Ph.D. Students: Bruce Archibald, Amanda Evans, Patrick Gorring, Alyssa Hernandez, Bjarte Jordal, Scott Kelley, Catherine Linnen, Duane McKenna, Geoff Morse, Christopher Smith, Bruno Augusto Souza de Medeiros

Undergraduate Theses:

Dylan Ryals, 2020. Of Mites and Men: Using Spatially Explicit Sampling and Genetic Sequencing to Uncover Disease Dynamics of Honeybee Parasite *Varroa destructor* in Migratory Apiculture. Hoopes Prize Winner.

Paige Kouba 2016. Mosquito Dance Party: Hybridization and speciation in Massachusetts.

Sang Il Kim, 2015. Phylogeny, Systematics, and Evolution of the Family Lucanidae Latreille (Insecta: Coleoptera).

Georgia Shelton, 2014. The Biodiversity of the Bees at the Arnold Arboretum. Hoopes Prize Winner

Adam Clark, 2011. Ant communities of the Boston Harbor Islands National Recreation Area. Hoopes Prize Winner

Alison Ravenscraft, 2009. The Acoustic Niche Hypothesis: Sound Spectrum Partitioning in Tropical and Temperate Communities.

Emma Smith, 2005. Evolution of leaf mining in the beetle family Buprestidae.

Amanda Thornton, 2005. Evolution of Wolbachia bacterial symbionts in Dryophthoridae weevils.

Kate Sharaf, 2002. The impact of herbivory on pollination success in *Ipomopsis aggregata*. Hoopes Prize Winner

Brian O' Meara, 2001. The phylogenesis of bacterial mutualism in the weevil family Dryophthoridae. Hoopes Prize Winner

Jeffrey Chung, 2000. The evolution of intron numbers in a new gene, enolase, for insect molecular systematics and the phylogeny of bark beetles.

Postdoctoral Fellows:

Dr. Judith Becerra, Dr. Susanne Dobler, Dr. Fabio Laurindo da Silva, Dr. Adriana Marvaldi, Dr. Duane McKenna, Dr. Benjamin Normark, Dr. Tommi Nyman, Dr. Ricardo Pérez-de la Fuente, Dr. Rob Roy Ramey, Dr. Jessica Rykken, Dr. Andrea Sequeira, Dr. Bruno Augusto Souza de Medeiros, Dr. Anu Veijalainen

Publications

- Altman, G. H. and B. D. Farrell (2022). Sericulture as a sustainable agroindustry. *Cleaner and Circular Bioeconomy* 2: 100011.
- Chamorro, M. L., B. A. S. de Medeiros and B. D. Farrell (2021). First phylogenetic analysis of Dryophthorinae (Coleoptera, Curculionidae) based on structural alignment of ribosomal DNA reveals Cenozoic diversification. *Ecol Evol* 11(5): 1984-1998.
- de Medeiros, B. A. S. and B. D. Farrell (2020). Evaluating insect-host interactions as a driver of species divergence in palm flower weevils. *Commun Biology* 3(1): 749.
- Pérez-de la Fuente, R., A. Gehler, C. W. Farnum and B. D. Farrell (2019). Digitisation as a tool to promote transparency between collections: the case of the Baltic amber from the Königsberg collection at the Museum of Comparative Zoology. *Spanish Journal of Palaeontology* 34(1): 145-151.
- Fernández, E., I. Ferreras, B. D. Farrell, B. A. S. De Medeiros and G. A. Romero-González (2019). Studies in *Aristolochia* (Aristolochiaceae) of Hispaniola. *Phytotaxa* 420(1): 1-20.
- de Medeiros, B. A. S., L. A. Núñez-Avellaneda, A. M. Hernandez and B. D. Farrell (2019). Flower visitors of the licuri palm (*Syagrus coronata*): brood pollinators coexist with a diverse community of antagonists and mutualists. *Biological Journal of the Linnean Society*.
- de Medeiros, B. A. S., & Farrell, B. D. (2018). Whole-genome amplification in double-digest RADseq results in adequate libraries but fewer sequenced loci. *Peerj*, 6(e5089).
- Shin, S., Clarke, D. J., Lemmon, A. R., Moriarty Lemmon, E., Aitken, A. L., Haddad, S., Farrell, B. D., . . . McKenna, D. D. (2018). Phylogenomic Data Yield New and Robust Insights into the Phylogeny and Evolution of Weevils. *Molecular Biology and Evolution*, 35(4), 823-836.
- Kim, S., de Medeiros, B. A. S., Byun, B.-K., Lee, S., Kang, J.-H., Lee, B., & Farrell, B. D. (2018). West meets East: How do rainforest beetles become circum-Pacific? Evolutionary origin of *Callipogon relictus* and allied species (Cerambycidae: Prioninae) in the New and Old Worlds. *Molecular Phylogenetics and Evolution*, 125, 163-176.
- Rykken, J. J. and B. D. Farrell (2018). Exploring the Microwilderness of Boston Harbor Islands National Recreation Area: Terrestrial Invertebrate All Taxa Biodiversity Inventory. *Northeastern Naturalist* 25(sp9): 23-44.
- De-la-Mora, M., Piñero, D., Oyama, K., Farrell, B. D., Magallón, S., & Núñez-Farfán, J. (2018). Evolution of *Trichobaris* (Curculionidae) in relation to host plants: Geometric morphometrics, phylogeny and phylogeography. *Molecular Phylogenetics and Evolution*.
- Laurindo da Silva, F., & Farrell, B. D. (2017). Non-biting midges (Diptera: Chironomidae) research in South America: subsidizing biogeographic hypotheses. *Annales de Limnologie - International Journal of Limnology*, 53, 111-128.
- Haddad, S., Shin, S., Lemmon, A. R., Lemmon, E. M., Svacha, P., Farrell, B. D., . . . McKenna, D. D. (2017). Anchored hybrid enrichment provides new insights into the phylogeny and evolution of longhorned beetles (Cerambycidae). *Systematic Entomology*.

- Farrell, B. D. (2016). The Biology of Culture. *ReVista : Harvard Review of Latin America*, 16(1), 2-2.
- Farrell, B. D. (2016). The Biology of Consciousness. *ReVista : Harvard review of Latin America*, 16(1), 26-29.
- Farrell, B. D. (2016). Music and Nature: From Humpbacks to Harvard. *ReVista : Harvard Review of Latin America*, 15(2), 2-4.
- Rykken, J. J., & Farrell, B. D. (2015). Developing a pollinator monitoring program for Boston Harbor Islands National Recreation Area: A pilot study. Natural Resource Report. NPS/BOHA/NRR—2015/950. (2221699). Fort Collins, CO Retrieved from
- McKenna, D. D., Wild, A. L., Kanda, K., Bellamy, C. L., Beutel, R. G., Caterino, M. S., . . . Farrell, B. D. (2015). The beetle tree of life reveals that Coleoptera survived end-Permian mass extinction to diversify during the Cretaceous terrestrial revolution. *Systematic Entomology*, 40(4), 835-880.
- McKenna, D. D., Farrell, B. D., Caterino, M. S., Farnum, C. W., Hawks, D. C., Maddison, D. R., . . . Thayer, M. K. (2015). Phylogeny and evolution of Staphyliniformia and Scarabaeiformia: forest litter as a stepping stone for diversification of nonphytophagous beetles. *Systematic Entomology*, 40(1), 35-60.
- Laurindo da Silva, F., Wiedenbrug, S., & Farrell, B. D. (2015). A Preliminary Survey of the Non-biting Midges (Diptera: Chironomidae) of the Dominican Republic. *CHIRONOMUS Journal of Chironomidae Research*(28), 12-19.
- Kim, S., & Farrell, B. D. (2015). Phylogeny of world stag beetles (Coleoptera: Lucanidae) reveals a Gondwanan origin of Darwin's stag beetle. *Molecular Phylogenetics and Evolution*, 86, 35-48.
- Evans, A. M., McKenna, D. D., Bellamy, C. L., & Farrell, B. D. (2015). Large-scale molecular phylogeny of metallic wood-boring beetles (Coleoptera: Buprestoidea) provides new insights into relationships and reveals multiple evolutionary origins of the larval leaf-mining habit. *Systematic Entomology*, 40(2), 385-400.
- Rykken, J. J., & Farrell, B. D. (2013). Discovering the wilderness in parks and protected areas. In R. H. Lemelin (Ed.), *The management of insects in recreation and tourism* (pp. 306-322). Cambridge: Cambridge University Press.
- Rykken, J. J., & Farrell, B. D. (2013). Boston Harbor Islands all taxa biodiversity inventory: discovering the “microwilderness” of an urban island park. Natural Resource Technical Report. (2195282).
- Davidson, R. L., Rykken, J. J., & Farrell, B. D. (2011). Carabid beetle diversity and distribution in Boston Harbor Islands national park area (Coleoptera, Carabidae). *Zookeys*(147), 497-526.
- Clark, A. T., Rykken, J. J., & Farrell, B. D. (2011). The Effects of Biogeography on Ant Diversity and Activity on the Boston Harbor Islands, Massachusetts, USA. *Plos One*, 6(11).
- McKenna, D. D., & Farrell, B. D. (2010). 9-Genes Reinforce the Phylogeny of Holometabola and Yield Alternate Views on the Phylogenetic Placement of Strepsiptera. *Plos One*, 5(7).

- Marvaldi, A. E., McKenna, D. D., & Farrell, B. D. (2010). Weevils in the Beetle Tree of Life: Exploring the phylogeny of Curculionoidea using morphology and molecules. *Cladistics*, 26(2), 216-216.
- Linnen, C. R., & Farrell, B. D. (2010). A test of the sympatric host race formation hypothesis in *Neodiprion* (Hymenoptera: Diprionidae). *Proceedings of the Royal Society B-Biological Sciences*, 277(1697), 3131-3138.
- Archibald, S. B., Bossert, W. H., Greenwood, D. R., & Farrell, B. D. (2010). Seasonality, the latitudinal gradient of diversity, and Eocene insects. *Paleobiology*, 36(3), 374-398.
- McKenna, D. D., Sequeira, A. S., Marvaldi, A. E., & Farrell, B. D. (2009). Temporal lags and overlap in the diversification of weevils and flowering plants. *Proceedings of the National Academy of Sciences of the United States of America*, 106(17), 7083-7088.
- McKenna, D. D., & Farrell, B. D. (2009). Beetles (Coleoptera). In S. B. Hedges & S. Kumar (Eds.), *The timetree of life* (pp. 278–289). Oxford New York: Oxford University Press.
- Friedrich, F., Farrell, B. D., & Beutel, R. G. (2009). The thoracic morphology of Archostemata and the relationships of the extant suborders of Coleoptera (Hexapoda). *Cladistics*, 25(1), 1-37.
- Linnen, C. R., & Farrell, B. D. (2008). Phylogenetic analysis of nuclear and mitochondrial genes reveals evolutionary relationships and mitochondrial introgression in the sertifer species group of the genus *Neodiprion* (Hymenoptera : Diprionidae). *Molecular Phylogenetics and Evolution*, 48(1), 240-257.
- Linnen, C. R., & Farrell, B. D. (2008). Comparison of methods for species-tree inference in the Sawfly Genus *Neodiprion* (Hymenoptera: Diprionidae). *Systematic Biology*, 57(6), 876-890.
- Linnen, C. R., & Farrell, B. D. (2007). Mitonuclear discordance is caused by rampant mitochondrial introgression in *Neodiprion* (hymenoptera : diprionidae) sawflies. *Evolution*, 61(6), 1417-1438.
- Farrell, B. D. (2007). Insects and Internet: Saving a national treasure in *Hispaniola*. *ReVista : Harvard review of Latin America*. (Winter 2007), 80-81.
- Smith, C. I., & Farrell, B. D. (2006). Evolutionary consequences of dispersal ability in cactus-feeding insects. *Genetica*, 126(3), 323-334.
- Nyman, T., Zinovjev, A. G., Vikberg, V., & Farrell, B. D. (2006). Molecular phylogeny of the sawfly subfamily Nematinae (Hymenoptera : Tenthredinidae). *Systematic Entomology*, 31(4), 569-583.
- Nyman, T., Farrell, B. D., Zinovjev, A. G., & Vikberg, V. (2006). Larval habits, host-plant associations, and speciation in nematine sawflies (Hymenoptera : Tenthredinidae). *Evolution*, 60(8), 1622-1637.
- McKenna, D. D., & Farrell, B. D. (2006). Tropical forests are both evolutionary cradles and museums of leaf beetle diversity. *Proceedings of the National Academy of Sciences of the United States of America*, 103(29), 10947-10951.

- Eastwood, R., Boyce, S. L., & Farrell, B. D. (2006). The provenance of Old World swallowtail butterflies, *Papilio demoleus* (Lepidoptera : Papilionidae), recently discovered in the New World. *Annals of the Entomological Society of America*, 99(1), 164-168.
- Smith, C. I., & Farrell, B. D. (2005). *Historical biogeography of longhorn cactus beetles: the influence of Pleistocene climate changes on American desert communities*. (Proc. RMRS-P-36). Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station.
- Smith, C. I., & Farrell, B. D. (2005). Range expansions in the flightless longhorn cactus beetles, *Moneilema gigas* and *Moneilema armatum*, in response to Pleistocene climate changes. *Molecular Ecology*, 14(4), 1025-1044.
- Smith, C. I., & Farrell, B. D. (2005). Phylogeography of the longhorn cactus beetle *Moneilema appressum* LeConte (Coleoptera : Cerambycidae): was the differentiation of the Madrean sky islands driven by Pleistocene climate changes? *Molecular Ecology*, 14(10), 3049-3065.
- Morse, G. E., & Farrell, B. D. (2005). Ecological and evolutionary diversification of the seed beetle genus *Stator* (Coleoptera : Chrysomelidae : Bruchinae). *Evolution*, 59(6), 1315-1333.
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