

# DANA L CAMPBELL

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## EDUCATION and COURSEWORK

- Harvard University**, Ph.D., Biology 1998  
Thesis advisor: N.E. Pierce  
Thesis title: *Higher-level phylogeny and molecular evolution of the Riodinidae (Lepidoptera)*
- Wellesley College**, B.A. *Cum laude*, Biology 1989
- Woods Hole Marine Institute** 1994  
Molecular Evolution Workshop
- University of Washington, Friday Harbor Laboratories** 1990-1991  
Invertebrate zoology, Invertebrate embryology, Phycology

## PROFESSIONAL EXPERIENCE

- Lecturer**, University of Washington, Bothell. 2012-present  
Division of Biological Sciences.
- Associate Scientist**, Georgetown Univ. and Univ. of Maryland 2012-present  
Dr. Leslie Ries lab of butterfly informatics. Taxonomic research and analysis.
- Master Curator**, Encyclopedia of Life (EOL.org) 2010-present  
Biodiversity content acquisition and writing (annually reviewed contract)
- Associate Research Scientist**, University of Maryland 2008-2012  
Scientific Liaison for acquisition of Lepidoptera phylogenetic and biological content and director of web tools development for LepTree
- Coordinator**, BEES program, University of Maryland, College Park 2007-2009  
Support and facilitate graduate student experience from application through graduation
- Scholar**, Helen Riaboff Whiteley Center, University of Washington 2007, 2008  
Research and writing: *Non-Traditional Academics; Child development*
- Associate Research Scientist**, Human-Computer Interaction Lab, University of Maryland 2002-2003  
Development of applications for accessing large biodiversity databases.  
Web page project description: <http://www.cs.umd.edu/hcil/taxontree/>
- Associate**, Department of Biology, University of Maryland 1999-2002  
Molecular evolution of the butterfly family Riodinidae.
- Consultant**, Human-Computer Interaction Laboratory, University of Maryland. 2000-2002  
Biologist - Project SearchKids, a children's interactive animal database.

## TEACHING EXPERIENCE

- Introductory Biology I (BBio180) 2013-18  
*Division of Biol. Sci., University of Washington, Bothell*
- Human Behavioral Biology 1993, 1998  
*Dept. of Anthropology, Harvard University*

Tutorial: Human Health, the Environment, and Public Communication <i>Dept. of Environmental Science and Public Policy, Harvard University</i>	1996, 97
Biological Diversity <i>Dept. of Organismic and Evolutionary Biology, Harvard University</i>	Spring 1994
Organismic and Evolutionary Biology <i>Dept. of Organismic and Evolutionary Biology, Harvard University</i>	Fall 1990, 91
Introductory Cellular and Molecular Biology <i>Harvard University Extension School</i>	Fall 1995-99
Introductory Organismic and Evolutionary Biology <i>Harvard University Extension School</i>	Spring 1996, 97

## PUBLICATIONS & SELECTED PUBLISHED ABSTRACTS

Espeland, M.; J.P Hall; P.J. DeVries; D.C. Lees; M. Cornwall; Y-F Hsu; L-W. Wu; D.L. Campbell; G. Talavera; R. Vila; S. Salzman; S. Ruehr; D.J. Lohman; N.E. Pierce, 2015. Ancient Neotropical origin and recent recolonisation: Phylogeny, biogeography and diversification of the Riodinidae (Lepidoptera: Papilionoidea). *Molecular Phylogenetics and Evolution* 93: 296-306. [PDF](#)

**Campbell, D.** and C.S. Parr. *In prep. for submission to PLoS1*. LepTree: Computer support for building a world-wide Lepidoptera community.

**Campbell, D.L.**, L. Stockwell, and S. Bassow. 2008. Non-Traditional Academics. In: *Mama Ph.D.: Women Write About Motherhood and Academic Life*. Rutgers University Press.

Lee, B., Parr, C.S. **D. Campbell** et al. 2004. [How users interact with biodiversity information using TaxonTree](#), 320-327. In *AVI 04 Proceedings of the working conference on Advanced visual interfaces*. <http://portal.acm.org/citation.cfm?do...>

Parr, C.S., B. Lee, **D. Campbell**, and B. Bederson. 2004. [Tree visualizations for taxonomies and phylogenies](#). *Bioinformatics* 20(17):2997-3004. [Supplementary figure](#). See prototype downloads for datasets.

Lee, B., C.S. Parr, **D. Campbell**, and B. Bederson. 2004. [How Users Interact with Biodiversity Information Using TaxonTree](#). *Proceedings of Advanced Visual Interfaces (AVI 2004)* pp. 320-327. ACM Press. An earlier version of this manuscript is available as [TaxonTree: Visualizing Biodiversity Information](#). Technical report HCIL-2003-40.

Druin, A., G. Reville, B.B. Bederson, J.P. Hourcade, A. Farber, J. Lee, **D. Campbell**. 2003. A collaborative digital library for children. *Journal of Computer Assisted Learning* 19: 239-248.

**Campbell, D.L.** and N.E. Pierce. 2003. Relationships of the Riodinidae (Lepidoptera) and phylogenetic placement with respect to other butterfly families: Implications for the evolution of ant association? In W. Watt, C. Boggs and P. Ehrlich, Eds. *Ecology and evolution taking flight: butterflies as model study systems*.

Hourcade, J.P., A. Druin, L. Sherman, B.B. Bederson, G. Reville, **D. Campbell**, S. Ochs, B. Weinstein. 2002. SearchKids: a Digital Library Interface for Young Children. *Proceedings of CHI*, ACM Press.

**Campbell, D.L.**, A.V.Z. Brower, and N.E. Pierce. 2000. Molecular evolution of the *wingless* gene and its implications phylogenetic placement of the butterfly family Riodinidae (Lepidoptera: Papilionoidea), *Molecular Biology and Evolution* 17(5):684-696.

Chang, B.S.W. and **D.L. Campbell**. 2000. Bias in phylogenetic reconstruction of vertebrate rhodopsin sequences. *Molecular Biology and Evolution* 17(8):1220-1231.

Parr, C.S., **D. Campbell**, and J. Park (June 2010) Community content building for evolutionary biology: Lessons learned from LepTree and Encyclopedia of life. *Nature Proceedings*: <http://dx.doi.org/10.1038/npre.2010.4603.1>

Brown, J., **D. Campbell**, S. Cho, M. Cummings, D. Davis, A. Kawahara, C. Mitter, C. Parr, J. Regier, A. Roe, J. Sohn, S. Weller, J. Zaspel, A. Zwick (May 2009). LepTree – A genomics-inspired community collaboration. *Lepidoptera Society Meeting*, Mexico.

Parr, C.S., B. Lee, **D. Campbell**, and B. Bederson (Nov. 2002). [Tree browsing: Visualizing biodiversity information](#), *Biosciences Day* poster presentation, University of Maryland.

**Campbell, D.L.** (August 1998). Examining ant association in the light of phylogenetic relationships of the Riodinidae. *Third International Butterfly Ecology and Evolution Symposium*, Mt. Crested Butte, CO.

Chang, B.S.W. and **D.L. Campbell** (June 1998). The utility of opsin genes in molecular systematics: resolving issues of base composition and codon bias. *Annual meeting of the Society for the Study of Evolution*, Vancouver, British Columbia.

**Campbell, D.L.** (July 1997). Riodinid, lycaenid, and nymphalid butterflies: different rates of evolution? *Annual meeting of the Society for the Study of Evolution*, Boulder CO.

**Campbell, D.L.**, P.J. DeVries and N.E. Pierce (July 1996) Utility of *wingless* in phylogeny reconstruction of the riodinid butterflies. *Society for Molecular Evolution*, Tucson, AZ.

**Campbell, D.L.** and N.E. Pierce (June 1996). Molecular phylogeny of the Riodinidae (Lepidoptera) based on nuclear and mitochondrial markers. *Annual Meeting of the Society for the Study of Evolution*, St. Louis, MO.

## GRANTS & SERVICE

<b>Climate Reality Leader</b> , trained by US Vice President Al Gore	June 2017
<b>Putnam Expedition Grant</b> , Museum of Comparative Zoology, Harvard University Funds to collect butterflies in Ecuador (\$7500, \$4600) and Arizona (\$2000)	1998, 96, 94
<b>Dissertation Improvement Grant</b> , National Science Foundation Funds to support lab expenses for dissertation work (\$8600)	1995
<b>Citation of Merit</b> , Association for Women in Science Educational Foundation (\$250)	1995
<b>Bok Center Certificate of distinction in teaching</b> , Harvard University	1994
<b>Non-Resident Tutor in Biology</b> , Leverett House, Harvard University Science advising and tutoring to Harvard undergraduates	1992-99
<b>Naturalist guide</b> , Harvard Museum of Comparative Zoology Naturalist interpreter (Sea of Cortez and Copper Canyon, Mexico; Galapagos; S.E. Alaska)	1992-99
<b>Docent</b> , Harvard Museum of Comparative Zoology Lead tours of exhibits and special activities for school groups.	1995-98
<b>Intern</b> , National Public Radio weekly broadcast " <i>Living On Earth</i> " Researched conservation-oriented news stories and assisted with sound production.	1997-98