

Marianne Espeland, PhD

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CURRENT POSITION

Postdoctoral research associate. **University of Florida**, Florida Museum of Natural History, McGuire Center for Lepidoptera and Biodiversity.

EDUCATION

- Oct. 2010 Doctor of Philosophy (**PhD**) in systematic zoology, **Stockholm University/ Swedish Museum of Natural History**, Stockholm, Sweden. Thesis title: "Diversification on an ancient Darwinian island: Evolutionary history of caddisflies and other organisms on New Caledonia". Advisor: Dr. Kjell Arne Johanson
- April 2008 Licentiate of Philosophy (**Lic. Phil.**) in systematic zoology, **Stockholm University**. Thesis: "New Caledonian caddisflies: Taxonomy, phylogenetics and what rocks have to do with it"
- Dec. 2004 Candidatus scientiarum (**M.Sc**) in systematic biology. **Norwegian University of Science and Technology** (NTNU), Trondheim, Norway. Thesis: "The systematics of the lowland and mountain forms of the green-veined white butterfly *Pieris napi* L. (Lepidoptera)"
- May 2003 Candidatus magisterii (**B.Sc.**) in biology. **Norwegian University of Science and Technology** (NTNU).

PROFESSIONAL EXPERIENCE

- 2014-present **Postdoctoral research associate**, McGuire Center for Lepidoptera and Biodiversity, Florida Museum of Natural History, **University of Florida**. Laboratories of Dr Keith Willmott, Dr. Akito Kawahara and Dr. Jackie Miller
- Phylogenomics and classification of Euptychiina (Satyrinae, Nymphalidae)
 - Systematics and diversification of Riodinidae
- 2011-2014 **Postdoctoral fellow**, Museum of Comparative Zoology and Department of Organismic and Evolutionary biology, Harvard University. Lab of Prof. Naomi Pierce. Funded by the Research Council of Norway.
- Phylogenomics, diversification and ant association of lycaenid butterflies
- 2007-2008 **Research assistant** at the Molecular Systematics Lab, Swedish Museum of Natural History
- Molecular laboratory work for different projects and supervision of students in the lab
- 2006-2011 **PhD fellow**, Department of Zoology, Stockholm University / Entomology department, Swedish Museum of Natural History.
- 2006 **Translator** for Global Biodiversity Information Facility (GBIF), Stockholm, Sweden.
- Translating web templates for the GBIF database from English to Norwegian.

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- 2005-2006 **Curatorial assistant** at the Swedish Museum of Natural History, Entomology department.
- Sorting and determination of Diptera from malaise traps for the Swedish Malaise-trap Project.
- 2005 **Research technician** at the Norwegian Crop Research Institute, Særheim, Norway.
- Collection, sorting and treatment of samples from fodder crop experimental plots.
- 2005 **Research assistant** at the Museum of Natural History and Archaeology, Department of Natural History, Trondheim, Norway.
- Preparation of taxonomic lists for different invertebrate groups.
 - Sorting and species determination of noctuid and geometrid moths (Lepidoptera).

GRANTS, AWARDS AND SCHOLARSHIPS

- 2013 Putnam expedition grant, Museum of Comparative Zoology, Harvard University (USD 7,436)
- 2011 Three year postdoctoral grant, Research Council of Norway, "From host plants to host ants: The evolution of phyto-predation in butterflies." (USD 460,000)
- 2011 12th R.J.H. Hintelmann Scientific Award for Zoological Systematics, Friends of the Zoological State Collection, Munich (USD 6,650)
- 2011 Friends of the Swedish Museum of Natural History. Grant for purchase of live insects for public exhibit (USD 1,110)
- 2010 Y. Sjöstedt travel fund and Hierta-Retzius foundation, Royal Swedish Academy of Sciences. Travel grant (USD 5,800)
- 2010 C.E. Boheman's foundation, Royal Swedish Academy of Sciences. Travel grant (USD 2,900)
- 2009 Maria and Thure Palm's foundation. Travel grant (USD 3,920)
- 2009 Friends of the Swedish Museum of Natural History. Molecular labwork (USD 2,920)
- 2007 Ebba and Rene Malaise Foundation. Fieldwork (USD 7,260).
- 2006 Friends of the Swedish Museum of Natural History. Fieldwork (USD 5,380).
- 2006 Överbys foundation. Fieldwork (USD 1,020)
- 2005 50% tuition scholarship for PhD studies, University of Nottingham, School of Genetics (£ 7000/year). Declined
- 2003 Dept. of Biology, Norwegian University of Science and Technology. Fieldwork (USD 840)

TEACHING EXPERIENCE

- 2009 **Undergraduate level:**
Zoo-physiology (histology part), Stockholm University (~50 students, taught 1/2 fall quarter; three hours laboratory session four-five afternoons a week)
- Teaching assistant, histology laboratory sessions, rat dissection
- 2008-2010 Organism diversity and phylogeny, Stockholm University (~50 students, taught 3 fall quarters, 1 spring quarter; three hours laboratory session four-five afternoons a week)
- Teaching assistant, animal dissections, histology and skeletal studies
 - Preparing and grading practical exam
- Graduate level:**

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- 2006, 2008 Systematic Zoology (entomology part), Swedish Museum of Natural History (4-8 students, taught twice, each time five consecutive working days; three hours lecture/discussion followed by a three hour laboratory session)
- Preparing and giving lectures on insect systematics and evolution, excluding Diptera, Hymenoptera and Coleoptera
 - Preparing and instructing at insect morphology laboratory sessions
 - Writing part of a compendium given to students as part of curriculum
 - Preparing and grading exam

Guest lectures:

- 2015 Measuring biodiversity, University of Florida. Graduate course in Paleontology. Guest lecture: "Phylogeny and diversification: Measuring biodiversity in space and time without fossils".

Mentoring:

- 2015-present Neha Jagtap, University of Florida (extension student)
- DNA barcoding of Euptychiina (Nymphalidae)
- Malaz Idris, University of Florida (sophomore, psychology major)
- Molecular phylogeny of *Taygetis* (Euptychiina, Nymphalidae)
- Nicole Okuthe, University of Florida (sophomore, biology major)
- Phylogeny and taxonomy of *Forsterinaria* (Euptychiina, Nymphalidae)
- Fall 2014-pres. Ashley Hopkins, University of Florida (senior honor student, zoology major)
- Phylogeny and diversification of New Guinean Riodinidae
- Tatiana Pomerantz, University of Florida (Senior, biology major)
- Revision of *Euptychoides* (Euptychiina, Nymphalidae)
- Summer 2014 Yolanda Huang, Harvard University (1st year rotational graduate student in Chemical Biology)
- Butterfly-ant association transcriptomics
- Anya Keomurjian, Winsor School, Boston (high school, rising junior)
- Various projects
- Summer 2013 Sophie Ruehr, Winsor school, Boston (high school, rising senior)
- Molecular laboratory work on Riodinidae
- Steen Dupont, Natural History Museum, London (visiting post-doctoral researcher)
- molecular labwork and phylogenetic analyses on Limacodidae
- Spring 2013 Rian Powers, Lesley University, Cambridge, MA (senior)
- Curation and databasing

FIELDWORK EXPERIENCE

- 2013 Collection of Lepidoptera and Trichoptera in Cameroon
- 2012 Collection of Lepidoptera and Trichoptera in Malawi
- 2012 Collection of Lepidoptera in Kenya (May and December)
- 2011 Collection of Lepidoptera and Trichoptera in South Africa and Zambia
- 2010 Collection of Trichoptera in Rio Negro and Nequén, Argentina
- 2008 Collection of Trichoptera in Western Norway
- 2007-2008 Collection of Trichoptera etc. on Tasmania (Australia), Vanuatu and the Solomon Islands
- 2006 Collection of Trichoptera etc. on New Caledonia
- 2006 Collection of Trichoptera etc. in Vera Cruz, Mexico

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- 2006 Collection of Trichoptera etc. in Brunei Darussalam
2004 Collection of Lepidoptera in Central, Eastern and Western Norway.
2003 Collection and rearing of Lepidoptera at Kongsvoll Biological Station,
Dovre-Sundal mountains National park, Norway

CONFERENCES, WORKSHOPS AND SEMINARS

- 2014 McGuire Center of Lepidoptera and Biodiversity, Florida Museum of Natural History, University of Florida, Gainesville, FL. Seminar (invited, oral)
2014 Alexander Koenig Museum, Bonn, Germany. Seminar (invited, oral)
2014 Association for Tropical Lepidoptera Annual Meeting, Gainesville, FL, USA (oral)
2014 7th International Conference on the Biology of Butterflies, Turku, Finland (invited, oral)
2014 Cambridge Entomological Club, Cambridge, MA, US. Seminar (invited, oral)
2013 Zoology Department, Stockholm University, Sweden. Seminar (invited, oral)
2013 Stockholm Entomological Society, Stockholm, Sweden Seminar (invited, oral)
2013 Annual Meeting of the Lepidopterists' Society, Gainesville, FL, USA. (Oral)
2013 CSIRO Ecosystem Sciences, Canberra, Australia. Seminar (invited, Oral)
2012 iBioEvo, Ottawa, Canada. (Attended)
2012 First Joint Congress on Evolutionary Biology, Ottawa, Canada. (Oral)
2011 Annual meeting of the Lepidopterist's society of Africa, Cape Town, South Africa. (Oral)
2011 12th R.J.H Hintelmann scientific award lecture (invited, Oral). Munich, Germany
2010 Systematikdagerna (Swedish Systematic days). Gothenburg, Sweden. (Poster)
2010 Harvard University, Cambridge, US. Giribet lab (invited, Oral)
2010 VI Southern Connection Congress. Bariloche, Argentina. (Oral)
2009 Workshop on Molecular Evolution. Woods Hole, Massachusetts, USA. (Attended)
2009 Systematikdagerna (Swedish Systematic days). Stockholm, Sweden. (Attended)
2008 Systematikdagerna (Swedish Systematic days). Uppsala, Sweden. (Attended)
2007 Third Biennial Conference of the International Biogeography Society. Tenerife, Spain.(Poster x 2)
2006 Systematikdagerna (Swedish Systematic days). Gothenburg, Sweden. (Poster)
2006 Speciation - what should we learn in the next 40 years. Workshop, Uppsala, Sweden. (Oral)
2006 XII International Symposium on Trichoptera. Mexico City, Mexico. (Poster)
2005 Visit to the Zoological Museum, Copenhagen, to study Diptera (Brachycera) with Dr. Thomas Pape. Funded by the Swedish Malaise trap project

PROFESSIONAL SOCIETIES

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International Biogeography Society, Society of Systematic Biologists, Lepidopterist's Society, Lepidopterist's Society of Africa, The Natural History Society of Kenya

REFEREE

Journals

Biological Journal of the Linnean Society, Journal of the American Benthological Society, Journal of Biogeography, Journal of the Lepidopterists' Society, Molecular Phylogenetics and Evolution, PlosOne, Proceedings of the Royal Society B, Systematic Entomology, Zootaxa

Research proposals

Austrian Science Fund

PROFESSIONAL SERVICE AND OUTREACH

- 2015 **Talk** at Oak Hammock Retirement Community, Gainesville, FL. "Hunting for butterflies in Africa: Challenges and rewards"
- 2014 **Butterfly gardening** with 3rd graders at Williams Elementary School, Gainesville, FL
Butterfly field day with 6th graders from Putnam Avenue Upper School, Cambridge, MA
- 2011 **Field day and lecture** about predaceous butterflies to students and teachers at the Hermannsburg school, KwaZulu-Natal, South Africa
- 2009 **PhD Student representative** at the Department Board and the Teacher's council, Department of Zoology, Stockholm University
- 2009 **Vice-chair** of the Doctoral Student Council, Department of Zoology, Stockholm University
- 2003-2004 **Student representative** at the Board of Directors, Museum of Natural History and Archaeology, Trondheim, Norway
- 2003 Volunteer **teacher** for Red Cross, helping third to sixth graders with their maths, science and language homework, Trondheim, Norway.

LANGUAGE SKILLS

Fluent: Norwegian (mother tongue), English
Advanced: Swedish, German

PUBLICATIONS

Submitted

Espeland, M., Hall, J.P.W., DeVries, P.J., Lees, D.C., Cornwall, M., Hsu, Y.-F., Wu, L.-W., Campbell, D.L., Talavera, G., Vila, R., Salzman, S., Ruehr, S., Lohman, D.J., Pierce, N.E. Ancient Neotropical origin and recent recolonization: Phylogeny, biogeography and diversification of the Riodinidae (Lepidoptera: Papilionoidea).

Accepted

Peña, C., **Espeland M.** Diversity dynamics in Nymphalidae butterflies: Effect of phylogenetic uncertainty on diversification rate shift estimates. *Plos One*

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Tropek R, Leština D, Janšta P, Brattström O, **Espeland M**, Sáfián Sz. First records of *Hypolycaena anara* Larsen, 1986 from Cameroon (Lepidoptera: Lycaenidae). *SHILAP Revista de Lepidopterología*

Peer-reviewed

- Boyle JH, Kaliszewska ZA, **Espeland M**, Suderman TR, Fleming JE, Heath A, Pierce NA. 2015. Phylogeny of the Aphnaeinae: myrmecophilous African butterflies with carnivorous and herbivorous life histories. *Systematic Entomology* 40 (1):169-182
- Wahlberg E, **Espeland M**, Johanson KA. 2014. Seven new species of *Chimarra* (Trichoptera: Philopotamidae) from Malawi. *Zootaxa* 3796 (3): 579-593
- Hawiltschek O, Heinrich L, **Espeland M**, Toussaint EFA, Genner MJ, Balke M. 2012. Pleistocene climate change promoted rapid diversification of aquatic invertebrates in South-East Australia. *BMC Evolutionary Biology* 12:142. **Highly accessed**
- Johanson KA, Malm T, **Espeland M**, Weingartner E. 2012. Phylogeny of the Polycentropodidae (Insecta: Trichoptera) based on protein-coding genes reveal non-monophyletic genera. *Molecular Phylogenetics and Evolution* 65: 126-135
- Espeland M** & Murienne J. 2011. Diversity dynamics in New Caledonia: towards the end of the museum model? *BMC Evolutionary Biology* 11:254
- Johanson KA, Wells A, Malm T, **Espeland M**. 2011. The Trichoptera of Vanuatu. *Deutsche Entomologische Zeitschrift* 58: 279-320
- Espeland M** & Johanson KA. 2011. A new species of *Goera* Stephens, 1829 (Goeridae: Trichoptera) from the Solomon Islands. *Aquatic Insects* 33: 185-189
- Espeland M**, Johanson KA. 2010. The diversity and radiation of the largest monophyletic animal group on New Caledonia (Trichoptera: Ecnomidae: *Agmina*). *Journal of Evolutionary Biology* 23: 2112-2122
- Johanson KA, **Espeland M**. 2010. Description of new *Chimarra* (Trichoptera: Philopotamidae) species from the Solomon Islands. *Zootaxa* 2638: 25-43
- Espeland M**, Irestedt M, Johanson KA, Åkerlund M, Berg J-E, Källersjö M. 2010. Dichlorvos exposure impedes extraction and amplification of DNA from insects in museum collections. *Frontiers in Zoology* 7:2. **Highly accessed**
- Espeland M**, Johanson KA. 2010. The effect of environmental diversification on species diversification in New Caledonian caddisflies (Hydropsychidae: Trichoptera: Insecta). *Journal of Biogeography* 37 (5): 879-890
- Johanson KA, **Espeland M**. 2010. Phylogeny of the Ecnomidae (Trichoptera). *Cladistics* 26: 36-48
- Espeland M**, Johanson KA, Hovmöller R. 2008. Early *Xanthochorema* (Trichoptera, Insecta) radiations in New Caledonia originated on ultrabasic rocks. *Molecular Phylogenetics and Evolution* 48: 904-917
- Espeland M**, Johanson KA. 2008. New species and descriptions of females of the New Caledonian endemic genus *Xanthochorema* (Trichoptera, Hydrobiosidae). In: Grandcolas P. (Ed.). *Zoologia Neocaledonica* 6. *Biodiversity studies in New Caledonia*. Mém. Mus. Nat. Hist. 197: 79-97
- Espeland M**, Johanson KA. 2007. Revision of the New Caledonian Hydrobiosella (Trichoptera: Philopotamidae) with description of five new species. In: Bueno- Soria J, Barba Álvarez R, Armitage B (eds.): *Proceedings of the XII International Symposium on Trichoptera*. 91-102
- Espeland M**, Aagaard K, Balstad T. & Hindar K. 2007. Ecomorphological and genetic divergence between lowland and montane forms of the *Pieris napi* species complex. *Biological Journal of the Linnean Society* 92: 727-745

Other publications

- Espeland M**. 2010. Diversification on an ancient Darwinian island: Evolutionary history of caddisflies (Trichoptera) and other organisms on New Caledonia. Doctoral thesis, Stockholm University.

