

BRIAN L. FISHER

Curator and Chair of Entomology
Patterson Scholar
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EDUCATION

Ph.D. University of California, Davis, 1997 in Entomology
M.S. University of Utah, 1992 in Biology
B.A. University of Iowa, 1988 (Honors) in Biology

RESEARCH

My research combines field work and phylogenetic tools to discover, document, and understand ant diversity on Earth and to ensure these results are used for direct conservation outcomes.

I created the annual Ant Course in 2001 (17 courses in 9 countries, 464 students from 53 countries), AntWeb.org in 2002 (world's largest online database on ants), the Madagascar Biodiversity Center in 2004 (Museum in Antananarivo dedicated to biodiversity, conservation and education), and Valala Farms in 2018 (an edible insect farm producing Insect Protein for famine relief).

POSITIONS HELD

University of California, Berkeley, Adjunct Full Professor, Division of Organisms & Environment in the Department of Environmental Science, Policy & Management 2004–present
San Francisco State University, Department of Biology, Research Professor, 2000–present
Curator of Entomology, California Academy of Sciences, 2000–present
Postdoctoral Fellow, California Academy of Sciences, 1999–2000
National Science Foundation Postdoctoral Fellow, South African Museum, Cape Town, 1997–1999

RESEARCH GRANTS

NSF DEB 1932467 Collaborative Research: Ants of the World (with PIs Bonnie Blaimer, NCSU; Jack Longino, University of Utah; Phil Ward, UCSD) 2019–2023
NSF DEB 1856400 Collaborative Research: Camponotine Ants and their Little Helpers:

- Phylogenomics of a Hyperdiverse Insect Clade and its Bacterial Endosymbionts (CANBE) (with PIs Bonnie Blaimer, NCSU; Jennifer Wernergreen, Duke University; Phil Ward, UCD) 2019- 2023
- IUCN SOS, An evidenced based approach to reducing the illegal hunting of Threatened lemurs on the Masoala Peninsula of Madagascar
- Knut and Alice Wallenberg Foundation, Insect Biome Atlas, Lead PI: Fredrik Ronquist, Swedish Museum of Natural History, 2018-2022
- USAID: Wild and edible insects to sustain forests and fight malnutrition.
- NSF DEB 1655076 Collaborative Research: Unraveling community patterns in the hyperdiverse ants of Madagascar (with co-PI Bonnie Blaimer NCU) 2017-2020
- CEPF: Insects and People of the Southwest Indian Ocean (IPSIO): A Network of Interdisciplinary Researchers Committed to Training, Sharing Tools, and Advocating for an Insect-Focused Approach in Conservation 2016-2019
- GBIF: BID: African Insect Atlas: unleashing the potential of insects in conservation and sustainability research in Africa 2016-2018
- NSF IOS 155796 Collaborative Research: Scents of self: how trade-offs shape self/non-self recognition cues in a supercolonial insect (with lead PI Neil Tsutsui UCB) 2016-2019
- Fulbright Scholar Award, Mozambique 2015-2016
- Autodesk: creating 3D imaging of Ant Genitalia 2014–2015.
- National Geographic. Ants of Mozambique and the Southwest Indian Ocean: assessing diversity and biogeographic linkages across the Mozambique Channel. 2014–2016.
- Edward O. Wilson Charitable Foundation. Ant Course: Fostering the training of the next generation of scientists. Ant Course 2012–2015.
- NSF Systematic Biology DEB 1120867 Collaborative Research: Phylogeography in Madagascar - Using ants to test hypotheses of biotic diversification in a model continent (with lead PI Brice Noonan) 2011–2014.
- Moore Foundation, Integrating semantic markup of taxonomic and systematic biology elements in the PLoS Biodiversity and Systematic Hub 2010.
- Edward O. Wilson Charitable Foundation. Ant Course 2010, Borneo. 2010.
- NSF Biotic Surveys DEB-0842395: Collaborative Research: Ants of the Southwest Indian Ocean and East Africa (ASWEA): assessing phylogenetic diversity and biogeographic linkages across the Mozambique Channel. (with Co-PIs Alex Smith Univ. Guelph, Phil Ward, UCD, and Brice Noonan, Univ. of Mississippi) 2009–2014.
- NSF Emerging Frontiers EF-0849982: Fine-Grained Semantic Markup of Descriptive Data for Knowledge Applications in Biodiversity Domains (with Hong Cui (PI) University of Arizona) 2009–2013.
- NSF DBI-0642321: Catalog of [Ants] 2.0: Improving Services and Preparing for Community. (with PI Stan Blum (CAS) and coPI Richard Pyle (BM) 2008–2013.
- National Geographic. Ants of the southwest Indian Ocean: Species discovery and delimitation in an island radiation. 2008–2010.
- MacArthur Foundation: Technological innovations for conserving biodiversity and planning for climate change in Madagascar: Support for the Réseau de la Biodiversité de Madagascar (REBIOMA) (with Claire Kremen (PI), UCB) 2007–2009.
- NSF Tree of life: Collaborative research on ant phylogeny: a comprehensive evolutionary tree

for the world's premier social organisms. (with Phil Ward (PI) Sean Brady, Ted Schultz)
2004–2009.

National Geographic. Biogeography and conservation of ants in Madagascar. 2004–2006

NSF Biotic Surveys and Inventories: Madagascar Ant Diversity Initiative (MANDI) (with Co-PI: Phil Ward) 2004–2008.

McBean Family Foundation, Conservation Training in Madagascar 2002–2003.

National Science Foundation, Biotic Surveys and Inventories: Terrestrial Arthropod Inventory of Madagascar (with Co-PI C. Griswold) 2000–2003.

National Science Foundation, Systematics Program, Systematics, phylogeny, and biogeography of Amblyoponini: A putative early lineage of ants (Hymenoptera: Formicidae) (with Co-PI D. Girman) 2000–2003.

National Science Foundation, International Program: Ant Diversity and Conservation Assessment in South Africa 2000–2003.

National Science Foundation Postdoctoral Fellow Supplement, 1997–1999.

American Museum of Natural History Collection Study Grant, 1997.

National Science Foundation Postdoctoral Fellow Award, 1996–1998.

World Wide Fund For Nature (WWF) Science Grant, 1994–1996, 2000.

National Science Foundation Dissertation Enhancement, 1994–1996.

National Geographic Society Grant, 1994–1996.

TEACHING

2009–2015	University of Antananarivo, Ant Course
2006–2017	UCB, ESPM 147-3, Field Entomology
2000–2018	Organizer of the International Ant Course, AntCourse.org
2003–2007, 2012	Instructor, Tropical Biology Association, Madagascar Conservation Ecology Course One Week

POSTDOCTORAL ASSOCIATES

Brian Heterick, Schlinger Postdoc Fellow 2002–2004, Masashi Yoshimura 2008–2014, Francisco Hita Garcia 2010–2014, Georg Fischer 2011–2014, Sandor Csoz 2014–2017; Gabi Camacho 2018-present; Carol Loss 2018-present, Sebastian Salata 2019-present

GRADUATE STUDENTS

San Francisco State University

Jayanthi Puniamoorthy, MS current

Frank Azorsa, MS 2014

Kelly Herbinson, MS 2009

Kevin Clarke, MS 2008

Jean Claude Rakotonirina, MS 2006

Corrie Saux, MS 2003

Sonoma State University

Gary Ouellette, MS 2003

University of California, Berkeley

Virginia Emery, Ph. D. 2013 (committee member)

Rebecca Sandidge, Ph.D 2018 (committee member)
 University of California, Davis
 Bonnie Blaimer, Ph. D. 2012 (committee member)
 Emma Underwood, Ph.D. 2005 (committee member)
 Eli Sarnat, Ph. D. 2009 (committee member)
 Marek Borowiec, Ph.D. current (committee member)
 University of Leeds, England
 Alison Cameron, Ph. D. 2005 (committee member)
 University of Antananarivo, Madagascar
 Andry Ny Aina, MSc 2016
 Eric Tsiriniaina, MSc 2016
 Nicole Rasoamanana, Ph. D. current
 Dimby Raharinjanahary, Ph. D. current
 Andrianjaka Ravelomanana, Ph. D. 2015
 Jean Claude Rakotonirina, Ph. D. 2014
 Irina Nantenaina Rakotomalala, Ph. D. current
 Valisoa Ralantoarinaivo, MSc, Present
 Johanna Rakotondrasoa, MSc, Present
 Universite Pierre et Marie Curie, Paris
 Alexandra Sebastien, MS 2012 (committee member)

UNDERGRADUATE STUDENT MENTORING

As part of the CAS REU Summer school for Systematics, I have mentored: 2010: Jordan Hollarsmith; 2011 Michael Bollinger; 2012: Ida Naughton; 2013: Brett Morgan; 2014: Isabella Muratore 2015; Veronica M. Sinotte, 2016; Jacob Idec 2018

FIELD EXPERIENCE

Extensive research in Borneo, Central America, South America, Africa, Madagascar.

PUBLICATIONS

PEER REVIEWED PUBLICATIONS

2020

156 Salata, S.; & Fisher, B. L. 2020. *Pheidole* Westwood, 1839 (Hymenoptera, Formicidae) of Madagascar – an introduction and a taxonomic revision of eleven species groups. ZooKeys. 905:1–235. DOI: 10.3897/zookeys.905.39592 Published 20 January 2020

2019

155 Van Itterbeeck, J.; Rakotomalala Andrianavalona, I. N.; Rajemison, F. I.; Rakotondrasoa, J. F.; Ralantoarinaivo, V. R.; Hugel, S.; & **Fisher, B. L.** 2019. Diversity and Use of Edible Grasshoppers, Locusts, Crickets, and Katydid (Orthoptera) in Madagascar. Foods. 8:666. DOI: 10.3390/foods8120666 Published: 10 December 2019

154 Adamowicz, S. J.; Boatwright, J. S.; Chain, F.; **Fisher, B. L.**; Hogg, I. D.; Leese, F.; Lijtmaer, D. A.; Mwale, M.; Naaum, A. M.; Pochon, X.; Steinke, D.; Wilson, J.-J.; Wood, S.; Xu, J.; Xu, S.; Zhou, X.; &

- van der Bank, M. 2019. Trends in DNA barcoding and metabarcoding. *Genome*. 62:v–viii. DOI: 10.1139/gen-2019-0054 Published: 18 April 2019
- 153 Fisher, B. L.; Peeters, C. 2019. *Ants of Madagascar: a guide to the 62 genera*. 260 pp. Antananarivo, Madagascar: Association Vahatra. 9782953892383 Published 10 Feb 2019
- 152 Borowiec, M. L.; Rabeling, C.; Brady, S. G.; Fisher, B. L.; Schultz, T. R.; & Ward, P. S. 2019. Compositional heterogeneity and outgroup choice influence the internal phylogeny of the ants. *Molecular Phylogenetics and Evolution*. 134:111–121. DOI: 10.1016/j.ympev.2019.01.024 Published: 7 February 2019

2018

- 151 Rakotonirina, J. C., And B. L. Fisher. 2018. Taxonomic revision of the Malagasy *Camponotus* subgenus *Mayria* (Hymenoptera, Formicidae) using qualitative and quantitative morphology. *Zootaxa* 4438:1–58. DOI: 10.11646/zootaxa.4438.1.1 Published: 20 Jun. 2018
- 150 Azorsa, F., and Fisher, B.L. 2018. Taxonomy of the ant genus *Carebara* Westwood (Formicidae, Myrmicinae) in the Malagasy Region. *ZooKeys* 767:1–149. DOI: 10.3897/zookeys.767.21105 Published 18 June 2018
- 149 Béhague, J., B. L. Fisher, R. Péronnet, R. Rajakumar, E. Abouheif, and M. Molet. 2018. Lack of interruption of the gene network underlying wing polyphenism in an early-branching ant genus. *Journal of Experimental Zoology Part B: Molecular and Developmental Evolution*:109–117. DOI: 10.1002/jez.b.22794 Published 05 March 2018
- 148 Sharaf, MR., Fisher BL., Al Dhafer HM., Polaszek A., Aldawood AS. 2018. Additions to the ant fauna (Hymenoptera : Formicidae) of Oman : an updated list , new records and a description of two new species 10. DOI: 10.20362/am.010004 Published 16 Feb 2018

2017

- 147 Peeters C., Foldi I., Matile-Ferrero D., Fisher BL. 2017. A mutualism without honeydew: what benefits for *Melissotarsus emeryi* ants and armored scale insects (Diaspididae)? *PeerJ* 5:e3599. doi: 10.7717/peerj.3599 Published 25 July 2017
- 146 Rasoamanana N., Csoz S., Fisher BL. 2017. Taxonomic revision of imitating carpenter ants, *Camponotus* subgenus *Myrmopytia* (Hymenoptera, Formicidae) of Madagascar, using morphometry and qualitative traits. *ZooKeys* 681:119–152. DOI: 10.3897/zookeys.681.13187 Published: 21 June 2017
- 145 Hita Garcia F., Fischer G., Liu C., Audisio TL., Alpert GD., Fisher BL., Economo EP. 2017. X-Ray microtomography for ant taxonomy: An exploration and case study with two new *Terataner* (Hymenoptera, Formicidae, Myrmicinae) species from Madagascar. DOI: 10.1371/journal.pone.0172641. Published: 22 Mar. 2017
- 144 Rakotonirina J.C., Csósz S., Fisher B.L. 2017. Taxonomic revision of the Malagasy *Camponotus grandidieri* and *niveosetosus* species groups (Hymenoptera, Formicidae) using qualitative and quantitative morphology. *Zootaxa*. 4238:203-245. doi: 10.11646/zootaxa.4238.2.2 Published: 3 Mar. 2017
- 143 Gibb H., Dunn RR., Sanders NJ., Grossman BF., Photakis M., Abril S., Agosti D., Andersen AN., Angulo E., Armbrrecht I., Arnan X., Baccaro FB., Bishop TR., Boulay R., Brühl C., Castracani C., Cerda X., Del Toro I., Delsinne T., Diaz M., Donoso DA., Ellison AM., Enriquez ML., Fayle TM., Feener DH., **Fisher BL.**, Fisher RN., Fitzpatrick MC., Gómez C., Gotelli NJ., Gove A., Grasso DA., Groc S., Guenard B., Gunawardene N., Heterick B., Hoffmann B., Janda M., Jenkins C., Kaspari M., Klimes P., Lach L., Laeger T., Lattke J., Leponce M., Lessard J-P., Longino J., Lucky A., Luke SH., Majer J., McGlynn TP., Menke S., Mezger D., Mori A., Moses J., Munyai TC., Pacheco R., Paknia O., Pearce-Duvet J., Pfeiffer M., Philpott SM., Resasco J., Retana J., Silva RR., Sorger MD., Souza J., Suarez A.,

- Tista M., Vasconcelos HL., Vonshak M., Weiser MD., Yates M., Parr CL. 2017. A global database of ant species abundances. *Ecology* 98:883–884. DOI: 10.1002/ecy.1682. Published: 1 Mar. 2017
- 142 Sharaf MR., Fisher BL., Collingwood CA., Aldawood AS. 2017. Ant fauna (Hymenoptera: Formicidae) of the Socotra Archipelago (Yemen): zoogeography, distribution and description of a new species. *Journal of Natural History* 51:1–62. DOI: 10.1080/00222933.2016.1271157. Published 27 January 2017
- 2016**
- 141 Ward P.S., Brady S.G., Fisher B.L., Schultz T.R. 2016. Phylogenetic classifications are informative, stable, and pragmatic: the case for monophyletic taxa. *Insectes Sociaux*. doi: 10.1007/s00040-016-0516-9 Published: 19 Sept 2016
- 140 Satria R., Sasaki O., Viet B.T., Oguri E., Syoji K., Fisher B.L., Yamane S., Eguchi K. 2016. Description of the first Oriental species of the ant genus *Xymmer* (Hymenoptera: Formicidae: Amblyoponinae). *Zootaxa*. 4168:141-150. 10.11646/zootaxa.4168.1.7 Published: 14 Sept. 2016
- 139 Csősz, S. & Fisher, B.L. 2016. Taxonomy of Malagasy *Nesomyrmex brevicornis* species-group using conventional morphology-based approach. *ZooKeys* 616: 125-159. doi: 10.3897/zookeys.616.9532 Published: 12 Sep 2016
- 138 Londe S., Molet M., Fisher B.L., Monnin T. 2016. Reproductive and aggressive behaviours of queen–worker intercastes in the ant *Mystrium rogeri* and caste evolution. *Animal Behaviour*. 120: 67-76. doi: 10.1016/j.anbehav.2016.07.026 Published 27 August 2016
- 137 Fisher B.L. & Bolton B. 2016. *Ants of Africa and Madagascar, A Guide to the Genera*, 512pp. Berkeley: University of California Press. ISBN: 9780520278660 Published 26 July 2016
- 136 Amorim D.S., Santos C.M.D., Krell F.-T., Dubois A., Nihei S.S., Oliveira O.M.P., Pont A., Song H., Verdade V.K., Fachin D.A., Klassa B., Lamas C.J.E., Oliveira S.S., Carvalho C.J.B. De, Mello-Patiu C.A., Hajdu E., Couri M.S., Silva V.C., Capellari R.S., Falaschi R.L., Feitosa R.M., Prendini L., Pombal J.P.J., Fernández F., Rocha R.M., Lattke J.E., Caramaschi U., Duarte M., Marques A.C., Reis R.E., Kurina O., Takiya D.M., Tavares M., Fernandes D.S., Franco F.L., Cuzzo F., Paulson D., Guénard B., Schlick-Steiner B.C., Arthofer W., Steiner F.M., **Fisher B.L.**, Johnson R.A., Delsinne T.D., Donoso D.A., Mulieri P.R., Patitucci L.D., Carpenter J.M., Herman L., Grimaldi D. 2016. Timeless standards for species delimitation. *Zootaxa*. 4137:121. doi: 10.11646/zootaxa.4137.1.9 Published: 8 July 2016
- 135 Csősz S. & Fisher B.L. 2016. Taxonomic revision of the Malagasy *Nesomyrmex madecassus* species-group using a quantitative morphometric approach. *Zookeys*. 603:105–130. doi: 10.3897/zookeys.603.8271 Published 6 July 2016
- 134 Esteves, F.A. & Fisher, B.L. 2016. Taxonomic revision of *Stigmatomma Roger* (Hymenoptera: Formicidae) in the Malagasy region. *Biodiversity Data Journal* 4:e8032. doi: 10.3897/BDJ.4.e8032 Published: 13 Jun 2016
- 133 Ward, P.S. & Fisher, B.L. 2016. Tales of dracula ants: the evolutionary history of the ant subfamily Amblyoponinae (Hymenoptera: Formicidae). *Systematic Entomology* 41: 683–693. doi: 10.1111/syen.12186 Published: 2 June 2016
- 132 Fisher B.L. 2016. Descriptive taxonomy: a golden or gold-plated age? *Ecology*. 97:1366–1367. doi: 10.1002/ecy.1344 (book review) Published: 9 May 2016.
- 131 Csősz, S. & Fisher, B.L. 2016. Toward objective, morphology-based taxonomy: a case study on the Malagasy *Nesomyrmex sikorai* species group (Hymenoptera: Formicidae). *PLoS One*. 11:e0152454. doi:10.1371/journal.pone.0152454 Published: April 20, 2016.
- 130 Rakotonirina, J.C., Csosz, S. & Fisher, B.L. 2016. Revision of the Malagasy *Camponotus edmondi* species group (Hymenoptera, Formicidae, Formicinae): integrating qualitative morphology and multivariate morphometric analysis. *Zookeys*. 572:81–154. doi: 10.3897/zookeys.572.7177 Published 15 March 2016

- 129 Maquart, P.O., Réveillon, F. & Prendini, L., Burger M., Fisher B.L., Noort S. Van. 2016. New Distribution Records for African Whip Spiders (Arachnida: Amblypygi). *African Entomology*. 24:245–246. doi: 10.4001/003.024.0245 Published 14 March 2016.
- 128 Peeters, C. & Fisher, B.L. 2016. Gamergates (mated egg-laying workers) and queens both reproduce in *Euponera sikorae* ants from Madagascar. *African Entomology*. 24:180–187. doi: 10.4001/003.024.0180 Published 14 March 2016.
- 127 Csősz, S. & Fisher, B.L. 2016. Taxonomic revision of the Malagasy members of the *Nesomyrmex angulatus* species group using the automated morphological species delineation protocol NC-PART-clustering. *PeerJ*. 4:e1796. doi: 10.7717/peerj.1796 Published 10 March 2016.
- 126 Ward, P.S., Blaimer, B.B. & Fisher, B.L. 2016. A revised phylogenetic classification of the ant subfamily Formicinae (Hymenoptera: Formicidae), with resurrection of the genera *Colobopsis* and *Dinomyrmex*. *Zootaxa*. 4072:343–357. doi: 10.11646/zootaxa.4072.3.4 published: 2 Feb. 2016
- 125 Graham, N.R., Fisher, B.L. & Girman D.J. 2016. Phylogeography in response to reproductive strategies and ecogeographic isolation in ant species on Madagascar: genus *Mystrium* (Formicidae: Amblyoponinae). *PLoS One*. 11:e0146170. doi: 10.1371/journal.pone.0146170 Published: January 22, 2016

2015

- 124 Blaimer, B.B., Brady, S.G., Schultz, T.R.; Lloyd, M.W., Fisher, B.L. & Ward P.S. 2015. Phylogenomic methods outperform traditional multi-locus approaches in resolving deep evolutionary history: a case study of formicine ants. *BMC Evolutionary Biology* 15:271. doi:10.1186/s12862-015-0552-5, Published 4 December 2015
- 123 Londe, S., Monnin T.; Cornette R.; Debat V.; Fisher B.L.; Molet M. 2015. Phenotypic plasticity and modularity allow for the production of novel mosaic phenotypes in ants. *Evodevo*. 6:36. doi: 10.1186/s13227-015-0031-5 Published: 1 December 2015
- 122 Csősz, S. & Fisher, B.L. 2015. Diagnostic survey of Malagasy *Nesomyrmex* species-groups and revision of *hafahafa* group species via morphology based cluster delimitation protocol. *Zookeys*. 526:19–59. doi: 10.3897/zookeys.526.6037 Published 8 October 2015
- 121 Esteves, F.A. & Fisher, B.L. 2015 A subfamília Amblyoponinae na região Neotropical. In: Delabie, J.H.C. et al. As formigas poneromorfas do Brasil. Ilhéus: Editus. p. 13-22. doi: 10.5281/zenodo.32400 Published 30 September 2015
- 120 Hita Garcia, F. & Fisher, B.L. (2015) Taxonomy of the hyper-diverse ant genus *Tetramorium* Mayr in the Malagasy region (Hymenoptera, Formicidae, Myrmicinae) – first record of the *T. setigerum* species group and additions to the Malagasy species groups with an updated illustrated identification. *ZooKeys* 512, 121–153. doi: 10.3897/zookeys.512.9860, Published 9 July 2015
- 119 Overson, R. & Fisher, B.L. 2015. Taxonomic revision of the genus *Prionopelta* (Hymenoptera, Formicidae) in the Malagasy region. *ZooKeys* 507:115–150. doi: 10.3897/zookeys.507.9303 Published 9 June 2015
- 118 Blaimer, B.B., Brady, S.G., Schultz, T.R. & Fisher, B.L. 2015. Functional and phylogenetic approaches reveal the evolution of diversity in a hyper diverse biota. *Ecography*: 38: 001–012. doi: 10.1111/ecog.01370 Published online: 13 February 2015

2014

- 117 Ward, P.S., Brady, S.G., Fisher, B.L. & Schultz, T.R. (2015). The evolution of myrmicine ants: phylogeny and biogeography of a hyperdiverse ant clade (Hymenoptera: Formicidae). *Systematic Entomology* 40: 61-81 doi: 10.1111/syen.12090 Published online 23 July 2014
- 116 Heinze, J., Schrempf, A., Wanke, T., Rakotondrazafy, H., Rakotondranaivo, T. & Fisher, B.L. (2014). Polygyny, inbreeding and wingless males in the Malagasy ant *Cardiocondyla shuckardi* Forel (Hymenoptera, Formicidae). *Sociobiology* 61: 300–306. doi: 10.13102/sociobiology.v61i3.300-306 Published 22 Oct 2014

- 115 Sharaf, M.R., Fisher, B.L. & Aldawood, A.S. (2014). Notes on ants of the genus *Strumigenys* F. Smith, 1860 (Hymenoptera: Formicidae) in the Arabian Peninsula, with a key to species. *Sociobiology* 61: 293–299 doi: 10.13102/sociobiology.v61i3.293-299 Published 22 Oct 2014
- 114 Fischer, G., Azorsa, F. & Fisher, B.L. (2014). The ant genus *Carebara* Westwood (Hymenoptera: Formicidae): synonymisation of *Pheidologeton* Mayr under *Carebara*, establishment and revision of the *C. polita* species group. *ZooKeys* 438: 57–112. doi: 10.3897/zookeys.438.7922 Published 1 Sept 2014
- 113 Helms, J.A. IV, Peeters, C. & Fisher, B.L. (2014). Funnels, gas exchange and cliff jumping: natural history of the cliff dwelling ant *Malagidris sofina*. *Insectes Sociaux* 61:357-365 doi: 10.1007/s00040-014-0360-8 Published 29 July 2014
- 112 Rakotonirina, J.C. & Fisher, B.L. (2014). Revision of the Malagasy ponerine ants of the genus *Leptogenys* Roger (Hymenoptera: Formicidae). *Zootaxa* 3836: 001–163 doi: 10.11646/zootaxa.3836.1.1 Published 15 July 2014
- 111 LaPolla, J.S. & Fisher, B.L. (2014). Then there were five: a reexamination of the ant genus *Paratrechina* (Hymenoptera: Formicidae). *ZooKeys* 422: 35–48 doi: 10.3897/zookeys.422.7779 Published 30 June 2014
- 110 Hölldobler, B., Obermayer M., Plowes, N.J.R. & Fisher, B.L. (2014). New exocrine glands in ants: the hypostomal gland and basitarsal gland in the genus *Melissotarsus* (Hymenoptera: Formicidae). *Naturwissenschaften* 101:527–532 doi: 10.1007/s00114-014-1186-y Published 6 June 2014
- 109 LaPolla, J.S. & Fisher, B.L. (2014). Two new *Parapatrechina* (Hymenoptera: Formicidae) species from the Seychelles, with notes on the hypogaecic *weissi* species-group. *ZooKeys* 414: 139–155. doi: 10.3897/zookeys.414.7542 Published 6 June 2014
- 108 Hita Garcia, F. & Fisher, B.L. (2014). The hyper-diverse ant genus *Tetramorium* Mayr (Hymenoptera: Formicidae) in the Malagasy region - taxonomic revision of the *T. naganum*, *T. plesiarum*, *T. schaufussii*, and *T. severini* species groups. *ZooKeys* 413: 1–170. doi: 10.3897/zookeys.413.7172 Published 4 June 2014
- 107 Hita Garcia, F. & Fisher, B.L. (2014). Taxonomic revision of the cryptic ant genus *Probolomyrmex* Mayr (Hymenoptera, Formicidae, Proceratiinae) in Madagascar. *Deutsche Entomologische Zeitschrift* 61(1): 65–76. doi: 10.3897/dez.61.7634 Published 30 May 2014
- 106 Hita Garcia, F. & Fisher, B.L. (2014). The ant genus *Tetramorium* Mayr in the Afrotropical region (Hymenoptera, Formicidae, Myrmicinae): synonymisation of *Decamorium* Forel under *Tetramorium*, and taxonomic revision of the *T. decem* species group. *ZooKeys* 411:67–103. doi: 10.3897/zookeys.411.7260 Published 28 May 2014
- 105 Rocha, L.A., Aleixo, A., Allen, G., Almeda, F., Baldwin, C.C., Barclay, M.V.L., Bates, J.M., Bauer, A.M., Benzoni, F., Berns, C.M., Berumen, M.L., Blackburn, D.C., Blum, S., Bolaños, F., Bowie, R.C.K., Britz, R., Brown, R.M., Cadena, C.D., Carpenter, K., Ceríaco, L.M., Chakrabarty, P., Chaves, G., Choat, J.H., Clements, K.D., Collette, B.B., Collins, A., Coyne, J., Cracraft, J., Daniel, T., de Carvalho, M.R., de Queiroz, K., Di Dario, F., Drewes, R., Dumbacher, J.P., Engilis, A., Erdmann, M. V, Eschmeyer, W., Feldman, C.R., Fisher, B.L., et al. (2014). Specimen collection: An essential tool. *Science* 344, 814–815. Published 23 May 2014
- 104 Brady, S.G., Fisher, B.L., Schultz, T.R. & Ward, P.S. (2014). The rise of army ants and their relatives: diversification of specialized predatory doryline ants. *BMC Evolutionary Biology* 14: 93. doi:10.1186/1471-2148-14-93 Published 1 May 2014
- 103 Bolton, B. & Fisher, B.L. (2014). The Madagascar endemic myrmicine ants related to *Eutetramorium* (Hymenoptera: Formicidae): taxonomy of the genera *Eutetramorium* Emery, *Malagidris* nom. n., *Myrmisaraka* gen. n., *Royidris* gen. n., and *Vitsika* gen. n. *Zootaxa* 3791: 1–99. Published 24 April 2014

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DATABASE/INTERNET CONTRIBUTIONS

AntWeb.org: AntWeb is the world's largest online database of images, specimen records, and natural history information on ants. It is community driven and open to contribution from

anyone with specimen records, natural history comments, or images.

AntCat.org: a community driven catalog of ant nomenclature, taxonomic history and access to pdfs for all ant taxonomic literature.

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1. Quitmeyer, A., Perner-Wilson, H., Fisher, B.L. (2015). *Hacking the Wild. Making Sense of Nature* via the Blurb publishing platform. pp. 120. Published May 2015
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