

## David H. Hembry

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### Education and Training

- 2015– **University of Arizona**, NIH PERT Postdoctoral Researcher;  
 sponsor: K. M. Dlugosch
- 2014–2015 **University of California, Berkeley**, NSF International Research Fellow  
 (reentry component); host: M. B. Eisen
- 2013–2014 **Kyoto University**, NSF International Research Fellow; host: A. Kawakita
- 2012–2013 **Kyoto University**, Japan Society for the Promotion of Science Postdoctoral  
 Researcher; host: A. Kawakita
- 2005–2012 **University of California, Berkeley, Ph.D.**,  
 Environmental Science, Policy, and Management  
 Committee: R. G. Gillespie (chair), B. G. Baldwin, P. M. O'Grady
- 1999–2003 **Harvard University, B.A.**, Biology  
 Advisers: N. E. Pierce, A. H. Knoll

### Other Appointments

- 2012–2014 Visiting International Scholar, Kyoto University
- 2003–2005 Research Student, Kyoto University
- 2001, 2003 Research Assistant, University of California, Santa Cruz  
 supervisor: J. N. Thompson

### Publications

- Newman EA, Winkler CA, **Hembry DH**. Submitted. Effects of anthropogenic wildfire activity in low elevation Pacific island vegetation communities in French Polynesia. Submitted 4 January 2016 to *International Journal of Wildland Fire*.
- Hembry DH**, Balukjian B. In press. Molecular phylogeographic synthesis of the Society Islands (Tahiti; South Pacific) reveals departures from hotspot archipelago models. Accepted 29 November 2015 at *Journal of Biogeography*.
- Hembry DH**. In press. Phyllanthae-*Epicephala* mutualistic interactions on oceanic islands in the Pacific. In: Kato M, Kawakita A (eds) *Obligate Pollination Mutualism in Phyllanthaceae*. Tokyo: Springer Japan.
- Hembry DH**. In press. Biogeography of interactions. In: Kliman R, Forbes A (eds) *Encyclopedia of Evolutionary Biology*. Amsterdam: Elsevier.
- Ohshima I, Kawakita A, **Hembry D**. 2015. Meeting report: International Symposium on Gracillariidae, 26-28 September 2014. *Japanese Journal of Entomology (New Series)* 18: 1-14. [In Japanese]
- Hembry DH**, Yoder JB, Goodman KR. 2014. Coevolution and the diversification of life. *The American Naturalist* 184: 425-438.

- Raimundo RLG, Gibert JP, **Hembry DH**, Guimarães PR. 2014. Conflicting selection in the course of adaptive diversification: the interplay between mutualism and intraspecific competition. *The American Naturalist* 183: 363-375
- Hembry DH**. 2013. Herbarium specimens reveal putative insect extinction on the deforested island of Mangareva (Gambier Archipelago, French Polynesia). *Pacific Science* 67: 553-560  
[Media coverage in *Slate*]
- Katayama N, **Hembry DH**, Hojo MK, Suzuki N. 2013. Why do ants shift their foraging from extrafloral nectar to aphid honeydew? *Ecological Research* 28: 919-926
- Hembry DH**, Kawakita A, Gurr NE, Schmaedick MA, Baldwin BG, Gillespie RG. 2013. Non-congruent colonizations and diversification in a coevolving pollination mutualism on oceanic islands. *Proceedings of the Royal Society B* 280: 20130361
- Hembry DH**, Okamoto T, McCormack G, Gillespie RG. 2013. Phytophagous insect community assembly through niche conservatism on oceanic islands. *Journal of Biogeography* 40: 225-235
- Hembry DH**, Okamoto T, Gillespie RG. 2012. Repeated colonization of remote islands by specialized mutualists. *Biology Letters* 8: 258-261  
[Media coverage: UC Berkeley News Center, German public radio, *Daily Cal*, *Cook Island News*]
- Hembry DH**, Katayama N, Hojo MK, Ohgushi T. 2006. Herbivory damage does not indirectly influence the composition or excretion of aphid honeydew. *Population Ecology* 48: 245-250

#### Articles in preparation (manuscripts available upon request):

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- Hembry DH**, Raimundo RLG, Newman EA, Atkinson L\*, Guo C\*, Guimarães PR, Gillespie RG. Reduced specialization and modularity in an intimate mutualism diversifying on young oceanic islands.  
[\*designates undergraduate co-author]
- Hembry DH**, Claridge EM. Molecular biogeography of the Marquesas Islands (French Polynesia).
- Hembry DH**, Kawahara AY, Lopez-Vaamonde C, Giron D, Ammunét T, Ariyoshi K, Ayabe Y, Brito R, Byun B-K, De Prins J, De Prins W, Doorenweerd C, Funamoto D, Furukawa S, Hirowatari T, Johns CR, Katte T, Kim D-S, Kirichenko N, Kobayashi M, Kobayashi S, Kumata T, Gonçalves GL, Mochizuki K, Nakadai R, van Nieukerken E, Okamoto T, Ono H, Osada Y, Moreira GRP, Sato H, Shin Y-M, Kawakita A, Ohshima I. Leaf blotch mining moths as an emerging model clade in evolutionary biology and biodiversity science. Abstract accepted for review at *Frontiers in Zoology*

#### Popular publications:

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- Hembry DH**. "David Hembry." In press for volume commemorating 30<sup>th</sup> anniversary of University of California, Berkeley's Richard P. Gump South Pacific Research Station.
- Hembry D**. 2014. Nihon to Amerika no shinkagaku/seitaigaku no kenkyū, dō chigau ka? [How does research in evolution and ecology differ between Japan and the United States?] *Kotaigun Seitai Gakkai Kaihō* 71: 10-17 [In Japanese]
- Hembry D**. 2014. Trait-Mediated Indirect Interactions: Ecological and Evolutionary Perspectives [book review]. *Nihon Seitai Gakkai Nyūsurettā* 33: 33-35 [In Japanese]

**Hembry D.** 2013. Shinka-seitaigaku no kenkyū-ryūgaku no tame Amerika kara Nihon ni kite mananda koto. [Things I learned coming from the US to Japan to do evolutionary ecology.] *Nihon Seitai Gakkai Kantō Chikukai Kaihō* 61: 11-14 [In Japanese]

**Hembry, D.** 2012. What's changed in evolution and ecology since I started my Ph.D. Guest post for *Nothing in Biology Makes Sense!* Online at <http://nothinginbiology.org/2012/06/19/whats-changed-in-evolution-and-ecology-since-i-started-my-ph-d/>

### Grants, Fellowships & Awards

*\*indicates participant*

- 2015 **National Institute for Mathematical and Biological Synthesis (NIMBioS), Working Group:** "Spatiotemporal variation and dynamics in ecological networks" (Co-organizer with J. O'Donnell, D. Gravel, P. Guimarães)
- 2015 Native Plant Society of New Mexico, "Pollination biology and systematics of native *Phyllanthus* (Phyllanthaceae; including *Reverchonia*) in New Mexico" (\$1000)
- 2015 Key Laboratory, South China Botanical Garden, Chinese Academy of Sciences, "Variation in network structure of specialized pollination interactions (Phyllanthaceae: *Glochidion*; Lepidoptera: *Epicephala*) across environmental gradients in South China" (Co-PI: S. Luo; ~\$6,500)
- 2014 **Postdoctoral Excellence in Research and Teaching (PERT) Fellowship, University of Arizona** (\$155,268)
- 2013 \*National Natural Science Foundation of China, "Comparative phylogeography of obligate pollination mutualisms between *Phyllanthus* spp. (Phyllanthaceae) and their pollinating and parasitic insects" (PI: S. Luo; ~\$13,000)
- 2012 \*JSPS Grant-in-Aid for Scientific Research (PI: A. Kawakita; ~\$35,000)
- 2012 **NSF International Research Fellowship (IRFP)** (\$161,975)
- 2012 **Japan Society for the Promotion of Science Postdoctoral Fellowship** (~\$112,000)
- 2011 Organization for Tropical Studies Research Grant (\$1,470)
- 2011 McBryde Travel Award, National Tropical Botanical Garden (\$1000)
- 2011 Travel Grant, ESPM, UC Berkeley (\$900)
- 2010–11 Travel Grant, UC Berkeley Entomology Students' Association (2 times, total \$1000)
- 2010 **NSF East Asia and Pacific Summer Institute** (Japan) (\$5000)
- 2008 Foreign Language and Area Studies Fellowship (Indonesian)
- 2007–08 Sigma Xi Grant-In-Aid of Research (2 times, total \$2000)
- 2007 Society for the Study of Evolution Conference Travel Award (\$750)
- 2006–12 Walker Fund for Arthropod Systematics, UC Berkeley (7 times, total \$7000)
- 2005 **NSF Graduate Research Fellowship (GRFP)** (\$90,000)
- 2005 NSERC Postgraduate Scholarships M (declined to attend graduate school in the US)
- 2003 **Monbushō Research Student Scholarship** (Japanese government)
- 2003 **Fulbright Grant** (declined)
- 2002 King Fellowship, Harvard College

### Merit Awards

- 2010 Outstanding Graduate Student Instructor Award, UC Berkeley
- 2002 Tazuko Ajiro Monane Prize for Japanese language study, Harvard University

### Teaching Experience

#### Instructor:

- 2011 General Entomology Lab, UC Berkeley

Course professor: P. M. O'Grady  
 2008–09 Graduate Coevolution Reading Group, UC Berkeley

2008 Jepson Herbarium Workshop, UC Berkeley: “Insect Diversity and Coevolution”

#### Teaching Assistant:

2010 Evolution, UC Berkeley  
 Instructors: K. Padian, E. L. Simms, J. L. Boore  
 2009 Biology and Geomorphology of Tropical Islands (field course), UC Berkeley  
 Instructors: B. D. Mishler, P. V. Kirch, G. K. Roderick, V. H. Resh

#### Course Reader:

2008 Human Biogeography of the Pacific, UC Berkeley  
 Instructor: P. V. Kirch

#### Guest Lectures:

2008 Human Biogeography of the Pacific, UC Berkeley  
 2008 Marine Biology Quarter, University of California, Los Angeles (lecture at field station)  
 2008 Three Seas Program, Northeastern University (lecture at field station)

### Mentoring

#### Undergraduate Mentoring:

2015 Shruti Koti (Molecular and Cell Biology, UC Berkeley)  
 2010–11 Lesje Atkinson, URAP (Molecular Environmental Biology, UC Berkeley)  
 2010–11 Chang Guo, URAP (Integrative Biology, UC Berkeley)

### Service

#### Workshop & Symposium Organization:

2015– Co-organizer, Working Group on Spatiotemporal Dynamics of Ecological Networks, National Institute for Mathematical and Biological Synthesis (NIMBioS), Knoxville, TN  
 2015– Organizing committee, annual NIH Institutional Research and Academic Career Development Awards (IRACDA) conference, June 12-14, 2016, Tucson, AZ  
 2012–14 Co-organizer for International Symposium on Gracillariidae, Kozagawa, Japan  
 2013 Organized international symposium on leafhopper-leafhopper moth interactions (*Phyllanthae/Epicephala*), Kyoto University, Japan  
 2007 Organizing committee for Graduate Research Symposium, Department of Environmental Science, Policy, and Management, UC Berkeley

#### National & International:

2015 Contributor, IUCN Red List of Threatened Species of France: “Chapitre flore vasculaire endémique de Polynésie française” (Chapter on the Endemic Vascular Flora of French Polynesia)  
 2015 Expert reviewer, Intergovernmental Platform on Biodiversity and Ecosystem Services (IPBES), first order draft, “Thematic assessment of pollinators, pollination, and food production”

- 2014 Assistant, field training course, National Conference and International Workshop on Evolutionary Ecology and Plant Reproductive Biology, Guangzhou, China
- 2014 Judge, graduate student presentation awards, American Society of Naturalists meeting, Pacific Grove, CA
- 2010– Associate Faculty Member, Faculty of 1000 (with R.G. Gillespie)

#### UC Berkeley (2005-2012):

- 2006–07 Student representative to faculty meetings, Division of Organisms and Environment

#### Peer Review:

Journals: *Molecular Ecology*, *Ecology*, *Scientific Reports*, *BMC Evolutionary Biology*, *Oikos*, *Zootaxa*, *Ecography*, *Functional Ecology*, *Biotropica*, *Molecular Phylogenetics and Evolution*, *Biological Conservation*, *Ecological Entomology*, *PLOS ONE*, *ZooKeys*, *Plant Species Biology*, and *Nihon Seitai Gakkai Shi (Japanese Journal of Ecology)*

Grant review: National Science Foundation (DEB) and National Geographic Society (Committee on Research and Exploration)

#### Professional Societies

Society for the Study of Evolution; American Society of Naturalists; Ecological Society of America; Society for Evolutionary Studies, Japan; European Society for Evolutionary Biology

#### Other Professional Training

- 2015 Winter Python Bootcamp, QB3 Institute, University of California, Berkeley, CA
- 2012 Workshop on Macroevolution in R, NCEAS, Santa Barbara, CA
- 2012 Bodega Applied Phylogenetics Workshop, Bodega Bay, CA
- 2011 São Paulo School on Ecological Networks, São Pedro, Brazil (*selected competitively*)

#### Workshop Participation:

- 2016 (*scheduled*) Hawai'i Leaf Miner Workshop, 25-28 April, Volcano, HI
- 2014 5<sup>th</sup> National Conference and International Workshop on Evolutionary Ecology and Plant Reproductive Biology, Guangzhou, China
- 2009 NSF BS&I French Polynesia Terrestrial Arthropod Survey Workshop, Papanui, Tahiti, French Polynesia

#### Presentations and Seminars

##### Invited Talks:

- 2016 Pacific Branch, Entomological Society of America, Honolulu, HI (*Symposium Talk, scheduled Spring 2016*)
- 2016 Island Biology 2016, Angra do Heroísmo, Azores, Portugal (*Symposium Talk, declined due to scheduling conflict*)
- 2015 Santa Fe Institute, NM
- 2015 University of Texas, Austin
- 2015 Society for Population Ecology, Hikone, Japan (*Symposium Talk, declined due to scheduling conflict*)
- 2015 Botany Meeting, Edmonton, AB (*Colloquium Talk*)
- 2015 Association for Tropical Biology and Conservation, Honolulu, HI (*Colloquium Talk, declined due to scheduling conflict*)
- 2015 NomiFest (symposium celebrating Naomi Pierce), Harvard University

- 2014 University of California, Davis
- 2014 University of Shiga Prefecture; Hikone, Japan
- 2014 Ryukoku University; Otsu, Japan
- 2014 South China Botanical Garden, Guangzhou (*Workshop Talk*)
- 2014 Ecological Society of Japan Meeting; Hiroshima, Japan (*Symposium Talk*)
- 2013 University of Shiga Prefecture; Hikone, Japan
- 2013 Taiwan Entomological Society Meeting; Huisun Forest (*Keynote Address*)
- 2013 Kansai Lepidopterists' Seminar; Kyoto, Japan
- 2013 Joint Evolution Meetings; Snowbird, UT (*Ernst Mayr Symposium Talk*)
- 2013 South China Botanical Garden, Guangzhou
- 2013 Kanto Branch, Ecological Society of Japan; Tokyo, Japan (*Symposium Talk*)
- 2012 Kyoto Prefectural University; Kyoto, Japan
- 2010 Kyoto University; Kyoto, Japan
- 2010 Phyllanthae/*Epicephala* Symposium; Kyoto, Japan
- 2010 Pacific Coast Entomological Society; Davis, CA
- 2009 French Polynesia Terrestrial Arthropod Workshop; Papara, Tahiti

**Contributed Talks:**

- 2016 American Society of Naturalists Meeting; Pacific Grove, CA (*scheduled*)
- 2015 Escuela Nacional de Estudios Superiores (UNAM), Unidad León, Mexico
- 2015 University of Nevada, Reno (*Informal Seminar*)
- 2014 International Symposium on Gracillariidae; Kozagawa, Japan
- 2014 Vietnam National University, Hanoi
- 2014 Society of Evolutionary Studies, Japan Meeting; Takatsuki, Japan
- 2014 Ecological Society of America Meeting; Sacramento, CA
- 2014 Joint Evolution Meeting; Raleigh, NC
- 2014 American Society of Naturalists Meeting; Pacific Grove, CA
- 2013 Leafyflower Symposium; Otsu, Japan
- 2013 Okinawa Institute of Science and Technology, Onna, Japan (*Informal Seminar*)
- 2013 Forestry and Forest Products Research Institute; Tsukuba, Japan (*Seminar*)
- 2012 Ecological Society of America Meeting; Portland, OR
- 2012 Joint Evolution Meeting; Ottawa, ON
- 2011 Entomological Society of America; Reno, NV
- 2011 Joint Evolution Meeting; Norman, OK
- 2011 Evolution of Life on Pacific Islands and Reefs; Honolulu, HI
- 2011 University of California, Santa Cruz (*Informal Seminar*)
- 2010 Western Evolutionary Biologists Meeting; Irvine, CA
- 2010 University of Idaho (*Informal Seminar*)
- 2010 Society for Evolutionary Studies, Japan Meeting; Tokyo, Japan
- 2004 International Congress of Entomology; Brisbane, Australia
- 2004 Santa Lucia Gradient Study Workshop; Santa Cruz, CA (*read by John N. Thompson*)

**Outreach Talks:**

- 2012 JSPS Science Dialogue, Nagoya Kōyō High School, Nagoya, Japan

- 2009 American Sāmoa Community College, Pago Pago, AS  
 2008 Association Te Pū 'Atiti'a, Mo'orea, French Polynesia [in French]

### Media Coverage

- 2014 “Fire in Paradise.” *Wildfire* (International Association of Wildland Fire) 23: 22-26.  
 “Hakka-koku kara kenkyūsha sanjūyo-nin, sekai-hatsu no ‘hosoga-ka’ shinpojiumu.”  
*The Kumano Shimbun*, September 28. [in Japanese]
- 2013 “Know any good snail jokes?” *Slate*, December 11. [*Coverage of Hembry 2013 Pac. Sci.*]
- 2012 “Hunting for insects on Viti Levu.” *Ecosystem Based Management-Fiji Newsletter*  
 (Wildlife Conservation Society Fiji)
- 2011 [*All 2011 articles below are coverage of Hembry et al. 2012 Biol. Lett.*]
- “Nach all den Jahren.” *Forschung Aktuell*, Deutschlandfunk (German public radio),  
 December 14. [in German]
- “Biodiversity study includes Cooks.” *Cook Islands News*, September 19.
- “Study indicates symbiotic species can reconnect after separation.” *Daily Californian*,  
 September 12.
- “Symbiotic species reconnect across distances, study finds.” UC Berkeley College of  
 Natural Resources web site, September 7.
- 2009 *Le Journal*, Tahiti Nui Télévision, November 16. [in French]
- 2008 “Maupiti: l’effet *Glochidion*.” *La Dépêche de Tahiti*, January 10. [in French]