

## CURRICULUM VITAE — MICHAEL N DAWSON

University of California, Merced  
5200 North Lake Road, Merced, CA 95343, USA  
mdawson@ucmerced.edu / dawson.mn@gmail.com

<b>CONTENTS</b>	<b>PAGE</b>
EDUCATION	<a href="#"><u>2</u></a>
RESEARCH APPOINTMENTS	<a href="#"><u>2</u></a>
<i>Research Positions, Field Research Experience</i>	
PUBLICATIONS	<a href="#"><u>3</u></a>
<i>Journal Articles (56), Book Chapters (9), Book Reviews (2), Correspondence &amp; Commentaries (5), Editorials (7), Technical Reports &amp; Information Booklets (4), Popular Articles (3), Submitted Articles (4), Internet resources</i>	
AWARDS AND FELLOWSHIPS	<a href="#"><u>11</u></a>
RESEARCH GRANTS	<a href="#"><u>12</u></a>
INVITED SEMINARS	<a href="#"><u>16</u></a>
SYMPOSIUM AND WORKSHOP ORGANIZATION	<a href="#"><u>18</u></a>
WORKING GROUPS	<a href="#"><u>18</u></a>
WORKSHOPS & TRAINING	<a href="#"><u>19</u></a>
CONFERENCE PRESENTATIONS	<a href="#"><u>19</u></a>
<i>Plenary / Keynote, Invited, Oral, Poster</i>	
TEACHING EXPERIENCE	<a href="#"><u>24</u></a>
<i>Teaching Positions, Guest Lectures, Seminar Organization, Course Development, Professional Development, Postdoctoral scholars mentored, Student Supervision, Educational Outreach</i>	
SERVICE	<a href="#"><u>29</u></a>
<i>Centre / Graduate Groups / School, UC Merced, University of California, National, International, Consulting</i>	
PROFESSIONAL MEMBERSHIPS	<a href="#"><u>32</u></a>

**EDUCATION**[back to index page](#)

- 2000 Ph.D., Biology, University of California, Los Angeles, USA.  
Thesis: “*Molecular variation and evolution in coastal marine taxa.*”
- 1994 M.Sc., Biological Computation, University of York, England.  
Thesis: “*REEFISH: modelling coral reef fisheries.*”
- 1993 B.Sc., Marine Biology, University of Newcastle-Upon-Tyne, England.  
Thesis: “*Hilleberg’s concept of ‘gardening’ and the nutrition of Arenicola marina (Linné).*”

**RESEARCH APPOINTMENTS**[back to index page](#)**Research Positions**

- July 12 – Present Associate Professor, University of California, Merced.
- Oct 06 – Jun 12 Assistant Professor, University of California, Merced.
- Mar 05 – Sep 06 Post-doctoral Researcher, w/ R. K. Grosberg, University of California, Davis.  
*Responsibilities:* To manage and develop research on the demography, population genetics, range expansion, and range limits of coastal marine invertebrates of Pacific North America. To co-ordinate and undertake field and lab work, supervise undergraduate students, and write manuscripts and grant applications.
- Jun 04 – Feb 05 Visiting Research Biologist, Coral Reef Research Foundation (CRRF), Palau.  
*Responsibilities: Independent research.* (1) Prepare reports, scientific presentations, and manuscripts on the ecology and evolution of marine lake ecosystems. (2) Fieldwork for Holocene paleoclimate and ENSO reconstruction in Palau. (3) Fieldwork for stable isotope analyses of marine lake foodwebs. (4) Grant writing.
- Visiting Research Associate, University of New South Wales, Australia.  
*Responsibilities:* Independent research, grant reporting, and writing manuscripts comparing population genetics and otolith microchemistry of estuarine fishes.
- Jun 01 – Jun 04 Vice-Chancellor's Post-Doctoral Research Fellow, Centre for Marine and Coastal Studies, University of New South Wales, Australia.  
*Responsibilities:* Develop independent research, prepare grant applications, reports and manuscripts on, for example, (1) population genetics of estuarine fishes and jellyfishes in southeastern Australia, (2) population ecology and genetics of marine lake taxa in Indonesia and Palau, and (3) molecular systematics of jellyfishes, and (4) dispersal and genetics of introduced species.
- Jan–Dec 2001 Research Biologist, Curator, and Collector, CRRF, Palau.  
*Responsibilities:* (1) Manage independent project on population ecology of marine lake jellyfish. (2) Curate invertebrate reference collection. (3) Collect invertebrate samples for pharmaceutical screening.

- Sep–Dec 2000      Research Technician, University of California, Los Angeles, USA.  
*Responsibilities:* Molecular analyses of coastal California fishes.
- 1995–1999        Graduate Research Assistant, UCLA, USA (2 years).  
*Responsibilities:* Analyses of evolution of developmental genes and phylogeography of coastal California fishes.
- 1992              Junior Research Associate, University of Newcastle-Upon-Tyne, UK (3 months).  
*Responsibilities:* Field and lab research on the ecology of lugworm, *Arenicola marina*.

### ***Field Research Experience***

- 2012–2016      Marine biodiversity research – Palau (2–8 weeks, annually), northern California, (1–3 weeks cumulative, annually).
- 2007–2011      Marine biodiversity research – Palau (2-4 weeks, annually), West Papua, Indonesia (2007, 4 weeks).
- 2002–2006      Marine invertebrate collections – American Samoa (3 weeks); Manus, Papua New Guinea (3 weeks); Berau, Indonesia (2 weeks); California, USA (3 weeks); Papua, Indonesia (1 week).
- 2001              Pilot "Deepworker 2000" submersible (10 dives; total dive time 24 hrs 32 mins; maximum depth 310 metres). Invertebrate collections, still and video photography.
- 1995–1998      Behavioral and morphological evolution of marine lake taxa. Population biology and trophic ecology of marine lake *Aurelia* sp. Palau. With L. E. Martin.
- 1993              Ambon '93 Research Expedition: Coastal pollution survey, Ambon, Molluccas, Eastern Indonesia. Feeding ecology of fiddler crabs, *Uca* spp., Ambon, Molluccas, Eastern Indonesia. Supervised by S.M. Evans.

### **PUBLICATIONS**

[back to index page](#)

*Web of Science: h-index = 23; number of citing articles (excluding self-citations) = 1632*

*Google Scholar: h-index = 29 (all-time), 25 (since 2011); i-10 index = 41 (all-time), 38 (since 2011)*

### ***Journal Articles (56 total)***

- 2016              Schiebelhut, L.M., S.S. Abboud, L. Gómez-Daglio, H.F. Swift, & M.N Dawson. A comparison of DNA extraction methods for high-throughput DNA analyses. *Molecular Ecology Resources* doi: 10.1111/1755-0998.12620
- 2016              Scorrano, S., G. Aglieri, F. Boero, M.N Dawson & S. Piraino. Unmasking *Aurelia* species in the Mediterranean Sea: an integrative morphometric and molecular approach. *Zoological Journal of the Linnean Society* doi: 10.1111/1462-2920.13416

- 2016 Meyerhof, M.S., K.M. Henry, J.M. Wilson, M.N Dawson & J.M. Beman. Microbial community function, structure, diversity, and assembly across oxygen gradients in meromictic marine lakes, Palau. *Environmental Microbiology* doi: 10.1111/1462-2920.13416
- 2016 Swift, H.F., L.E. Gómez Daglio, & M.N Dawson. Three routes to crypsis: stasis, convergence, and parallelism in the *Mastigias* species complex (Scyphozoa, Rhizostomeae). *Molecular Phylogenetics and Evolution* 99:103–115. doi:10.1016/j.ympev.2016.02.013
- 2015 Dawson, M.N. Islands and island-like marine environments. *Global Ecology & Biogeography* 25:831–846. doi: 10.1111/geb.12314
- 2015 Jurgens, L., L. Rogers-Bennett, P.T. Raimondi, L.M. Schiebelhut, M.N Dawson, R.K. Grosberg, & B. Gaylord. Patterns of mass mortality among rocky shore invertebrates across 100 km of northeastern Pacific coastline. *PLoS ONE* <http://dx.plos.org/10.1371/journal.pone.0126280>
- 2015 Dawson, M.N, K. Ciciel, M.B. Decker, G.C. Hays, C. Lucas, & K.A. Pitt. Population-level perspectives on global change: genetic and demographic analyses indicate various scales, timing, and causes of scyphozoan jellyfish blooms. *Biological Invasions* 17:851–867. doi:10.1007/s10530-014-0732-z
- 2014 Dawson, M.N, C.G. Hays, R.K. Grosberg, & P.T. Raimondi. Dispersal potential and population genetic structure in the marine intertidal of the eastern North Pacific. *Ecological Monographs* 84:435–456. <http://dx.doi.org/10.1890/13-0871.1>
- 2014 Dawson, M.N. Natural experiments and meta-analyses in comparative phylogeography. *Journal of Biogeography* 41:52–65. doi:10.1111/jbi.12190
- 2013 Dawson, M.N, A.C. Algar, A. Antonelli, L.M. Dávalos, E. Davis, R. Early, A. Guisan, R. Jansson, J.-P. Lessard, K.A. Marske, J.L. McGuire, A.L. Stigall, N.G. Swenson, N.E. Zimmermann, & D.G. Gavin. An horizon scan of biogeography. *Frontiers of Biogeography* 5:130–157.
- 2013 Lee, P.L.M., M.N Dawson, S.P. Neill, P.E. Robins, J.D.R. Houghton, T.K. Doyle, & G.C. Hays. Identification of genetically and oceanographically distinct blooms of jellyfish. *Journal of the Royal Society—Interface* 10. doi:10.1098/rsif.2012.0920
- 2012 Appeltans, W., & 120 other authors (M.N Dawson #29). The magnitude of global marine species diversity. *Current Biology* 22:2189–2202. doi: 10.1016/j.cub.2012.09.036
- 2012a Dawson, M.N. Species richness, habitable volume, and species densities in freshwater, the sea, and on land. *Frontiers of Biogeography* 4:105–116.
- 2012b Dawson, M.N. Parallel phylogeographic structure in ecologically similar sympatric sister taxa. *Molecular Ecology* 21:987–1004.
- 2012 Condon, R.H., W.M. Graham, C.M. Duarte, K.A. Pitt, C.H. Lucas, S.H.D. Haddock, K.R. Sutherland, K.L. Robinson, M.N Dawson, M.B. Decker, C.E. Mills, J.E. Purcell, A. Malej, H. Mianzan, S.-I. Uye, & S. Gelcich. Questioning the rise of gelatinous zooplankton in the world's oceans. *Bioscience* 62:160–169.

- 2011 Dawson, M.N, P.H. Barber, L.I. González-Guzmán, R.J. Toonen, J.E. Dugan, & R.K. Grosberg. Phylogeography of *Emerita analoga* (Crustacea, Decapoda, Hippidae), an eastern Pacific Ocean sand crab with long-lived pelagic larvae. *Journal of Biogeography* 38:1600–1612. doi: 10.1111/j.1365-2699.2011.02499.x
- 2011 Smittenberg, R.H., C. Saenger, M.N Dawson, & J.P. Sachs. Compound-specific D/H ratios of the marine lakes of Palau as proxies for West Pacific Warm Pool hydrologic variability. *Quaternary Science Reviews* 30:921–933.
- 2010 Bayha, K.M., & M.N Dawson. A new family of allomorphic jellyfish, Drymonematidae (Scyphozoa, Discomedusae), emphasizes evolution in the functional morphology and trophic ecology of gelatinous zooplankton. *Biological Bulletin* 219:249–267.
- 2010 Bayha, K.M., M.N Dawson, A.G. Collins, M.S. Barbeitos, & S.H.D. Haddock. Evolutionary relationships among scyphozoan jellyfish families based on complete taxon sampling and phylogenetic analyses of 18S and 28S ribosomal DNA. *Integrative & Comparative Biology* 50:436–455. doi: 10.1093/icb/icq074
- 2010 Dawson, M.N, R.K. Grosberg, E. Sanford, & Y.E. Stuart. Population genetic analysis of a recent range expansion: mechanisms regulating the poleward range limit in the volcano barnacle *Tetraclita rubescens*. *Molecular Ecology* 19:1585–1605.
- 2009 Dawson, M.N. Trans-realm biogeography: an immergent interface. *Frontiers of Biogeography* 1:62–70.
- 2009 Häussermann, V., M.N Dawson & G. Försterra. First record of the moon jellyfish, *Aurelia*, for Chile. *Spixiana* 32:3–7.
- 2009 Dawson, M.N & W.M. Hamner. A character-based analysis of the evolution of jellyfish blooms: adaptation and exaptation. *Hydrobiologia* 616:193–215. doi: 10.1007/s10750-008-9591-x
- 2009 Hamner, W.M., & M.N Dawson. A review and synthesis on the systematics and evolution of jellyfish blooms: advantageous aggregations and adaptive assemblages. *Hydrobiologia* 616:161–191. doi: 10.1007/s10750-008-9620-9
- 2008 Riddle, B.R., M.N Dawson, E.A. Hadly, D.J. Hafner, M.J. Hickerson, S.J. Mantooth, & A.D. Yoder. The role of molecular genetics in sculpting the future of integrative biogeography. *Progress in Physical Geography* 32:173–202.
- 2008 Carlson, B.A., J.E. Randall, & M.N Dawson. A New Species of *Epibulus* (Perciformes: Labridae) from the West Pacific. *Copeia* 2008:476–483.
- 2008 Daryanabard, R., & M.N Dawson. Jellyfish blooms: *Crambionella orsini* (Scyphozoa, Rhizostomeae) in the Gulf of Oman, Iran, 2002-2003. *Journal of the Marine Biological Association of the UK* 88:477–483.

- 2008 Dawson, M.N., & W.M. Hamner. A biophysical perspective on dispersal and the geography of evolution in marine and terrestrial systems. *Journal of the Royal Society, Interface* 5:135–150.
- 2007 Daly, M., M.R. Brugler, P. Cartwright, A.G. Collins, M.N Dawson, D.G. Fautin, S.C. France, C.S. McFadden, D.M. Opresko, E. Rodriguez, S. Romano, & J. Stake. The phylum Cnidaria: A review of phylogenetic patterns and diversity 300 years after Linnaeus. *Zootaxa* 1668:127–182.
- 2007 Sax, D.F., J.J. Stachowicz, J.H. Brown, J.F. Bruno, M.N Dawson, S.D. Gaines, R.K. Grosberg, A. Hastings, R.D. Holt, M.M. Mayfield, M.I. O’Connor, & W.R. Rice. Ecological and evolutionary insights from species invasions. *Trends in Ecology and Evolution* 22:465–471.
- 2006 Martin, L.E., M.N Dawson, L.J. Bell, & P.L. Colin. Marine lake ecosystem dynamics illustrate ENSO variation in the tropical western Pacific. *Biology Letters* 2:144–147.
- 2005a Dawson, M.N. *Cyanea capillata* is not a cosmopolitan jellyfish: morphological and molecular evidence for *C. annaskala* and *C. rosea* (Scyphozoa, Semeaostomeae, Cyaneidae) in southeast Australia. *Invertebrate Systematics* 19:361–370.
- 2005 Dawson, M.N, A.S. Gupta, & M.H. England. Coupled biophysical global ocean model and molecular genetic analyses identify multiple introductions of cryptogenic species. *Proceedings of the National Academy of Sciences of the USA* 102:11968–11973.
- 2005 Dawson, M.N, & W.M. Hamner. Rapid evolutionary radiation of marine zooplankton in peripheral environments. *Proceedings of the National Academy of Sciences of the USA* 102:9235–9240.
- 2005b Dawson, M.N. Five new subspecies of *Mastigias* (Scyphozoa, Rhizostomeae, Mastigiidae) from marine lakes, Palau, Micronesia. *Journal of the Marine Biological Association of the UK* 85:679–694.
- 2005 Dawson, M.N. Renaissance taxonomy: integrative evolutionary analyses in the classification of Scyphozoa. *Journal of the Marine Biological Association of the UK* 85:733–739.
- 2005c Dawson, M.N. Morphologic and molecular redescription of *Catostylus mosaicus conservativus* (Scyphozoa, Rhizostomeae, Catostylidae) from southeast Australia. *Journal of the Marine Biological Association of the UK* 85:723–732.
- 2005 Dawson, M.N. Morphological variation and taxonomy in the Scyphozoa: *Mastigias* (Rhizostomeae, Mastigiidae) - a golden unstandard? *Hydrobiologia* 537:185–206.
- 2005 Dawson, M.N. Incipient speciation of *Catostylus mosaicus* (Scyphozoa, Rhizostomeae, Catostylidae), comparative phylogeography and biogeography in southeastern Australia. *Journal of Biogeography* 32:515–533.

- 2004 Ahnelt, H., J. Göschl, M.N Dawson, & D.K. Jacobs. Geographical variation in the cephalic lateral line canals of *Eucyclogobius newberryi* (Teleostei, Gobiidae) and its comparison with molecular phylogeography. *Folia Zoologica* 53:385–398.
- 2004 Dawson, M.N. Some implications of molecular phylogenetics for understanding biodiversity in jellyfishes, with an emphasis on Scyphozoa. *Hydrobiologia* 530/531:249–260.
- 2004 Holland, B.S., M.N Dawson, G.L. Crow, & D.K. Hofmann. Global phylogeography of *Cassiopea* (Scyphozoa: Rhizostomae): Molecular evidence for cryptic species and multiple Hawaiian invasions. *Marine Biology* 145:1119–1128.
- 2003 Dawson, M.N. Macro-morphological variation among cryptic species of the moon jellyfish, *Aurelia* (Cnidaria: Scyphozoa). *Marine Biology* 143:369–379. Erratum: *Marine Biology* 144:203.
- 2003 Dawson, M.N, & W.M. Hamner. Geographic variation and behavioral evolution in marine plankton: the case of *Mastigias* (Scyphozoa: Rhizostomeae). *Marine Biology* 143:1161–1174.
- 2002 Dawson, M.N, K.D. Louie, M. Barlow, D.K. Jacobs, & C.C. Swift. Comparative phylogeography of sympatric sister species, *Clevelandia ios* and *Eucyclogobius newberryi* (Teleostei, Gobiidae), across the California Transition Zone. *Molecular Ecology* 11:1065–1075.
- 2001 Dawson, M.N. Phylogeography in coastal marine animals: a solution from California? *Journal of Biogeography* 28:723–736.
- 2001 Dawson, M.N, & D.K. Jacobs. Molecular evidence for cryptic species of *Aurelia aurita* (Cnidaria, Scyphozoa). *Biological Bulletin* 200:92–96.
- 2001 Dawson, M.N, & L.E. Martin. Geographic variation and ecological adaptation in *Aurelia* (Scyphozoa: Semaestomeae): some implications from molecular phylogenetics. *Hydrobiologia/Dev. Hydrobiologia* 451:259–273.
- 2001 Dawson, M.N, L.E. Martin, & L.K. Penland. Jellyfish swarms, tourists, and the Christ-child. *Hydrobiologia/Dev. Hydrobiologia* 451:131–144.
- 2001 Dawson, M.N, J.L. Staton, & D.K. Jacobs. Phylogeography of the tidewater goby, *Eucyclogobius newberryi* (Teleostei, Gobiidae), in coastal California. *Evolution* 55:1167–1179.
- 2000 Dawson, M.N. Variegated mesocosms as alternatives to shore-based planktonkreisels: notes on the husbandry of jellyfish from marine lakes. *Journal of Plankton Research* 22:1673–1682.
- 1998 Dawson, M.N, K.A. Raskoff, & D.K. Jacobs. Preservation of marine invertebrate tissues for DNA analyses. *Molecular Marine Biology and Biotechnology* 7:145–152.
- 1998 Retraubun, A.S.W., M. Dawson, & S.M. Evans. The impact of fiddler crabs on sediments of mangrove shores. *Cakalele* 9:17–23.

- 1996 Retraubun, A.S.W., M. Dawson, & S.M. Evans. The role of the burrow funnel in feeding processes in the lugworm *Arenicola marina* (L.). *Journal of Experimental and Marine Biology and Ecology* 202:107–118.
- 1996 Retraubun, A.S.W., M. Dawson, & S.M. Evans. Spatial and temporal factors affecting sediment turnover by the lugworm *Arenicola marina* (L.). *Journal of Experimental and Marine Biology and Ecology* 201:23–35.
- 1995 Evans, S.M., M. Dawson, J. Day, C.L.J. Frid, M.E. Gill, L.A. Pattisina, & J. Porter. Domestic waste and TBT pollution in coastal areas of Ambon Island (Eastern Indonesia). *Marine Pollution Bulletin* 30:109–115.

### **Book Chapters (9 total)**

- 2016 Dawson, M.N, A.C. Algar, L.R. Heaney, & Y.E. Stuart. *The evolutionary biogeography of islands, lakes, and mountaintops*. Pp. 203–210 in *The Encyclopedia of Evolutionary Biology v.I* (R.M. Kliman, ed). Academic Press, Oxford.
- 2014 Lucas, C.H., & Dawson, M.N. *What are jellyfishes and thaliaceans and why do they bloom?* Pp. 9–44 in *Jellyfish Blooms* (K.A. Pitt & C.H. Lucas, eds.). Springer, Berlin.
- 2010a Dawson, M.N. *Semaeostomeae*. In McGraw-Hill Encyclopedia of Science and Technology 11<sup>th</sup> Edn, and online [AccessScience@mcGraw-Hill](http://www.accessscience.com), <http://www.accessscience.com>.
- 2010b Dawson, M.N. *Rhizostomeae*. In McGraw-Hill Encyclopedia of Science and Technology 11<sup>th</sup> Edn, and online [AccessScience@mcGraw-Hill](http://www.accessscience.com), <http://www.accessscience.com>.
- 2009 Dawson, M.N, & K.A. Pitt. *Jellyfish*. Pp. 205–212 in *Temperate plankton – a guide to their ecology and monitoring for water quality* (I.M. Suthers & D. Rissik, eds). CSIRO Publishing, Collingwood.
- 2009 Dawson, M.N, L.E. Martin, L.J. Bell & S. Patris. *Marine Lakes*. Pp. 603–607 in *Encyclopedia of Islands* (R. Gillespie & D.A. Clague, eds.). University of California Press, Berkeley.
- 2008 Dawson, M.N. *Scyphozoa*. In McGraw-Hill Encyclopedia of Science and Technology 10<sup>th</sup> Edn, and online [AccessScience@mcGraw-Hill](http://www.accessscience.com), <http://www.accessscience.com>.
- 2006 Dawson M.N, R.S. Waples, & G. Bernardi. *Phylogeography*. Pp. 26–54 in *Ecology of California Marine Fishes* (L.G. Allen, M.H. Horn, & D.J. Pondella II, eds). University of California Press, Berkeley.
- 1998 Jacobs, D.K., S.E. Lee, M.N Dawson, J.L. Staton, & K.A. Raskoff. *The history of development through the evolution of molecules: gene trees, hearts, eyes, and*



*dorsoventral inversion*. Pp. 323–357 in *Molecular Approaches to Ecology and Evolution* (R. DeSalle & B. Schierwater, eds.). Birkhäuser Verlag, Basel.

### ***Book Reviews (2 total)***

- 2009 Dawson, M.N. Science chic. *Frontiers of Biogeography* 1:14–16.
- 2008 Cain, C.J., D.A. Conte, M.E. García-Ojeda, L. Gómez Daglio, L. Johnson, E.H. Lau, J.O. Manilay, J. Baker Phillips, N.S. Rogers, S.E. Stolberg, H.F. Swift, and M.N Dawson. What systems biology is (not, yet). *Science* 320:1013–1014.

### ***Correspondence & Commentaries (5 total)***

- 2014 Dawson, M.N. Biogeography and complex traits: dispersal syndromes, in the sea. *Frontiers of Biogeography* 6:11–15.
- 2014 Dawson, M.N. What do we think the relationship is between dispersal potential and population genetic structure? *Frontiers of Biogeography* 6:53.
- 2012 Dawson, M.N, & J. Hortal. A cure for seeing double? Convergence and unification in biogeography and ecology. *Frontiers of Biogeography* 4:3–6.
- 2011 Dawson, M.N. Marine Biogeography. *Frontiers of Biogeography* 3:13.
- 2006 Dawson, M.N, R.K. Grosberg, & L.W. Botsford. Connectivity in marine protected areas. *Science* 313:43–44.

### ***Editorials (7 total)***

- 2015 Dawson, M.N. Seven up! *Frontiers of Biogeography*, 2015. *Frontiers of Biogeography* 7:1–2.
- 2014 Dawson, M.N. R. Field, & J. Hortal. Guides, not gatekeepers. *Frontiers of Biogeography* 6:108–110.
- 2012 Field, R., J. Hortal & M.N Dawson. Research letters at the frontiers of biogeography. *Frontiers of Biogeography* 4:89–90.
- 2014 Dawson, M.N. R. Field, & J. Hortal. Introducing research articles. *Frontiers of Biogeography* 6:107.
- 2012 Dawson, M.N, R. Field, & J. Hortal. Advancing Frontiers, with a prospective. *Frontiers of Biogeography* 4:1–2.
- 2011 Dawson, M.N, R. Field, & J. Hortal. Advancing Frontiers, with a retrospective. *Frontiers of Biogeography* 3:1.
- 2009 Hortal, J., & M.N Dawson. *Frontiers of Biogeography*, a new frontier for the IBS. *Frontiers of Biogeography* 1:1.

**Technical Reports & Information Booklets (4 total)**

- 2011 Patris, S.W., M.N Dawson, L.J. Bell, L.E. Martin, P.L. Colin, & G. Ucharm, with additional design & images by M. Etpison. *Ongeim'l Tketau*. Coral Reef Research Foundation, 44 pp.
- 2010 Patris, S.W., M.N Dawson, L.J. Bell, L.E. Martin, & P.L. Colin. *Jellyfish Lake*. Coral Reef Research Foundation, 16 pp.
- 2004 Dawson, M.N. *Cnidaria: Scyphozoa (jellyfishes)*. Pp.10–13 in NORFANZ voyage progress report 1. Biodiversity survey of seamounts and slopes of the Norfolk Ridge and Lord Howe Rise (A. Williams & K. Gowlett-Holmes, eds.). CSIRO Marine Research.
- 2002 Martin, L.E., L.J. Bell, & M.N Dawson. Marine lake monitoring project: biological and physical properties of three marine lakes in Palau 2001. CRRF Technical Report No. 2. Pp. 12. Coral Reef Research Foundation, Koror, Palau. [www.CoralReefResearchFoundation.org](http://www.CoralReefResearchFoundation.org)

**Popular articles (3 total)**

- 2006 Dawson, M.N. Island evolution in marine lakes. *JMBA Global Marine Environments* 3:10–13.
- 2005 Dawson, M.N. Iconography and jellyfish evolution. *JMBA Global Marine Environments* 2:34.
- 2003 Martin, L.E., & M.N Dawson. Jellyfish Lake. *Sport Diving* 100:88.

**Submitted (4)**

Dawson, M.N, J.C. Axmacher, C. Beierkuhnlein, J.L. Blois, B.A. Bradley, A.F. Cord, J. Dengler, K.S. He, L.R. Heaney, R. Jansson, M.D. Mahecha, C. Myers, D. Nogués-Bravo, A. Papadopoulou, B. Reu, F. Rodríguez-Sánchez, M.J. Steinbauer, A. Stigall, M.-N. Tuanmu & D.G. Gavin. A second horizon scan of biogeography. *Frontiers of Biogeography*

Gómez-Daglio, L. & M.N Dawson. Tree- and non-tree, DNA and morphology: Accurate estimates of jellyfish (Scyphozoa, Discomedusae) diversity increase through integrative taxonomy. *Invertebrate Systematics*

Rocha de Souza, M. & M.N Dawson. Redescription of *Mastigias papua* (Scyphozoa, Rhizostomeae) with designation of a neotype and recognition of two additional species. *Zootaxa*

Schiebelhut, L.M. & M.N Dawson. Differences in life-history and dispersal potential correlate with differences in gene flow in terrestrial and marine environments. *Journal of Biogeography*

**Internet resources**

- 2010 *The Scyphozoan\* wiki*: an internet resource dedicated to integrating and disseminating information describing the scyphozoan jellyfishes. For use by non-specialists and specialists alike—including aquarists, coastal managers, educators, fisheries biologists, students, the general public, and researchers.  
[http://scyphozoan.ucmercedlibrary.info/wiki/Main\\_Page](http://scyphozoan.ucmercedlibrary.info/wiki/Main_Page)
- 2007 *The Scyphozoan*: 6<sup>th</sup> edition of an internet resource dedicated to integrating and disseminating information describing the scyphozoan jellyfishes. For use by non-specialists and specialists alike—including aquarists, coastal managers, educators, fisheries biologists, students, the general public, and researchers.  
[thescyphozoan.ucmerced.edu](http://thescyphozoan.ucmerced.edu)
- 2006–present *Marine lakes: experiments in ecology and evolution*. Devoted to synthesizing and presenting scientific data describing marine lakes for public education.  
[marinelakes.ucmerced.edu](http://marinelakes.ucmerced.edu)
- 2003–present Home page, including abbreviated CV, abstracts of published papers, and research interests. [mnd.ucmerced.edu](http://mnd.ucmerced.edu)
- 2002 Coral Reef Research Foundation home-page, including components on coral bleaching, marine lakes, reef fishes, species diversity, and underwater technology.  
[www.CoralReefResearchFoundation.org/](http://www.CoralReefResearchFoundation.org/)

**AWARDS AND FELLOWSHIPS**[back to index page](#)

- 2015–2016 Faculty Climate Action Champion Award, University of California, Merced.
- 2009 Fellowship, Centre for Research on Teaching Excellence, UC Merced, Spring semester.
- 2006 Sherman Eureka Prize for Environmental Research. Awarded for research in any field of the biological, physical, mathematical or biomedical sciences leading to the resolution of an environmental problem or the improvement of our natural environment. Awarded by the Australia Museum Eureka Prizes. Joint recipient with M.E. England and A.S. Gupta.
- 2001–2004 Vice-Chancellor's Post-Doctoral Research Fellowship, University of New South Wales, Australia.
- 2001 Scherbaum Award, for outstanding research in the Department of Organismic Biology, Ecology, and Evolution (OBEE), University of California, Los Angeles (UCLA), USA.
- 2000 Thomas James Memorial Award, for dissertation research, OBEE, UCLA, USA.
- 1999–2000 May & Ward Scholarship, British Schools and Universities Foundation, London & New York.

- 1999–2000 Dissertation Year Fellowship, UCLA, USA.
- 1999–2000 Hortense Fishbaugh Memorial Fellowship, Affiliates UCLA, USA.
- 1999–2000 Adopt-a-Scholar Award, Affiliates UCLA (Dr. & Mrs. Nefkens), USA.
- 1998 Departmental Fellowship, OBEE, UCLA, USA.
- 1994–2000 Non-Resident Tuition Fellowship, Biology/OBEE, UCLA, USA.
- 1994–1996 Fellowship, Center for the Study of Evolution and the Origins of Life, UCLA, USA.
- 1994 Biosis UK Prize, for best Biological Computation M.Sc. project, University of York, UK.
- 1993–1994 Fellowship, Masters course in Biological Computation, Science and Engineering Research Council, UK.
- 1993 Longbottom Prize, for most outstanding B.Sc. research project, Marine Biology program, University of Newcastle-Upon-Tyne, UK.

## RESEARCH GRANTS

[back to index page](#)

- 2016–2018 UC President's Research Catalyst Award, "*Preservation of Biodiversity through Conservation Genomics*." PI: R.K. Wayne (UCLA); co-PIs: R. Nielsen (UCB), J. Wall (UCSF), B. Shapiro (UCSC), M.N Dawson (UCM). \$1,762,000 (\$222,498 to UC Merced).
- 2014 UC Merced Health Sciences Research Institute, "*Developing autonomous airborne pathogen collection and identification capability for mapping Valley Fever risk in the San Joaquin Valley*." PI: M.N Dawson. co-PIs: J.M. Beman, Y. Chen. \$8,000.
- 2013–2015 UC MEXUS-CONACYT Collaborative Research Grant, "*Molecular taxonomy and population genetics of a cryptic species targeted by fisheries: the edible cannonball jellyfish (Stomolophidae)*." PI/co-PIs: L. Gómez Daglio, F. Garcia de Leon, M.N Dawson. \$24,000.
- 2013–2017 National Science Foundation – Dimensions of Biodiversity, "*DIMENSIONS: Collaborative Research: Do parallel patterns arise from parallel processes*." PI: M.N Dawson, co-PI M. Beman; OCE-1241255: \$1,369,982. PI/co-PI U. Washington, J.P. Sachs; OCE-1241247: \$540,001.
- 2012–2013 California Sea Grant College Program, "*Recruitment patterns following a massive invertebrate die-off along the central coast of California*." #R/ENV-223PD. PIs: M.N Dawson, R.K. Grosberg, B.P. Gaylord. \$9,991.

- 2012–2015 David & Lucile Packard Foundation, "*Consolidating capacity for continuing science- and ecosystem-based conservation of marine lakes in Palau and West Papua.*" #2012-38207. PIs: M.N Dawson, P.L. Colin. \$200,000.
- 2012–2013 Marisla Foundation, "*Is endemic marine biodiversity in Palau threatened by sunblock and disease?*" PI: M.N Dawson; #2-12-099. \$10,000.
- 2012–2013 National Science Foundation – Biological Oceanography, "*RAPID: Collaborative Research: Ecological and genetic recovery from a massive invertebrate die-off along the central coast of California.*" PI: M.N Dawson; OCE-1243970: \$76,969. PI/co-PI UC Davis, R.K. Grosberg, B.P. Gaylord; OCE-1243958: \$122,691. No-cost extensions 2014 & 2015.
- 2012–2013 UC Merced Graduate & Research Council, "*Developing nuclear markers for multi-species 'community genetics' of California's marine intertidal.*" PI: M.N Dawson. \$5,000.
- 2012 Critical Ecosystem Partnership Fund, "*Tourist-introduced threats in marine lakes: assessing the effect of sunblock on jellyfish health to inform sustainable management?*" PI: M.N Dawson. \$8,000.
- 2011–2012 UC Merced Graduate & Research Council, "*The role of long-distance dispersal via kelp rafting in establishing patterns of marine population genetics.*" PI: M.N Dawson. \$4,621.
- 2010–2011 UC Merced Graduate & Research Council, "*Diversity and activity of microbial life in 'miniature seas': marine lakes of Palau as analogs for the present and future oceans.*" PIs: M.J. Beman & M.N Dawson. \$8,438.
- 2009–2012 David & Lucile Packard Foundation, "*Applying research strategies developed in Palau to foster sustainable management of marine lake ecosystems in Raja Ampat, Indonesia: pilot skills exchange program for site-based conservation across the Western Pacific.*" #2009-34153. PIs: M.N Dawson, P.L. Colin. \$196,000.
- 2009–2010 UC Merced Graduate & Research Council, "*Evolution of development during speciation: searching for mechanisms of morphological change during rapid radiation of Mastigias medusae, Palau.*" PI: M.N Dawson. \$3,394.
- 2009–2010 Critical Ecosystem Partnership Fund, "*Documenting an existing invasion to prevent future introductions of non-indigenous species in the island-like marine lakes.*" PI: M.N Dawson. \$17,653.
- 2008–2010 National Science Foundation – Biological Oceanography, "*SGER: Biomixing - a controversial mechanism influencing dynamics of marine ecosystems.*" PI: M.N Dawson; co-PI J.O. Dabiri. OCE-0849308. \$75,373.  
[http://www.nsf.gov/discoveries/disc\\_images.jsp?cntn\\_id=114748&org=NSF](http://www.nsf.gov/discoveries/disc_images.jsp?cntn_id=114748&org=NSF)
- 2008 UC Merced Graduate & Research Council, "*Biological mixing: an under-appreciated mechanism influencing physical, chemical, and biological dynamics in some marine ecosystems?*" PI: M.N Dawson. \$5,000.

- 2007–2010 National Science Foundation – Systematic Biology, "*REVSYS: Renaissance taxonomy of semeanostome scyphomedusae – a systematic foundation for understanding jellyfish blooms & invasive species.*" PI: M.N Dawson; co-PI A.G. Collins. DEB-0717078. \$350,000.
- 2007–2010 University of California Marine Council – Coastal Environmental Quality Initiative, "*Community genetics and marine protected areas of the California and Baja California mainland and island array.*" PI: M.N Dawson; co-PIs R.K. Grosberg, D.M. Kaplan, B. Gaylord, J.L. Largier, P.T. Raimondi, C.G. Hays, D. Richards. \$399,843.
- 2007 UC Merced Graduate & Research Council, "*Ecological assembly and evolutionary diversification in marine islands.*" PI: M.N Dawson. \$5,000.
- 2006–2008 David & Lucile Packard Foundation, "*Scientific infrastructure development and training to support Koror State's management plan for the Rock Islands-Southern Lagoon Area of the Republic of Palau.*" PIs: M.N Dawson, P.L. Colin. \$199,976.
- 2005 National Science Foundation – Assembling the Tree of Life, "*Cnidaria.*" PIs: P. Cartwright, N. Blackstone, A. Collins, C. Cunningham, M. Daly, et al. Consultant for Scyphozoa: M.N Dawson. \$25,000.
- 2005 Darwin Initiative, pre-project funding "*Conserving biodiversity of jellyfish marine lakes, Palau.*" PIs: A.S. Brierley, W. Sanderson. Foreign collaborator: M.N Dawson. £2,988.
- 2004 Committee for Research and Exploration, National Geographic Society "*Biodiversity monitoring of endangered marine lake ecosystems in the Sulawesi Sea.*" PI: M.N Dawson. Co-PIs: T. Tomascik, C. Ismuranti, Y. Tuti, B. Hoeksema. \$30,000.
- 2003–2004 Sea World Research and Rescue Foundation, Australia "*Population structure in estuarine fishes and its implications for biodiversity conservation and marine protected areas.*" PI: M.N Dawson. Co-PI: B.M. Gillanders. AU\$38,000.
- 2002–2003 National Fish and Wildlife Foundation, "*Conservation biology of the humphead wrasse, Cheilinus undulatus: a coral reef fish at risk.*" PI: P.L. Colin. Co-PIs: M.N Dawson, S. Oakley, A. Manica. \$41,610.
- 2001–2004 Japanese Society for Promoting Science, "*Molecular phylogeny and evolution of marine lake organisms by vicariance.*" PIs: Y. Hara, N. Hanzawa, R. Jordan, (Yamagata University). Foreign collaborator: M.N Dawson.
- 2001 Alexander and Baldwin Foundation, "*Marine lake and coral reef monitoring program, Palau.*" Co-PIs: M.N Dawson, L.E. Martin, L.J. Bell, P.L. Colin. \$1000.
- 1999–2000 PADI Foundation, "*Phylogeography and conservation genetics of the federally endangered tidewater goby.*" \$7,131.
- 1999 California SeaGrant, "*Monitoring project for Ongeim'l Tketau (Jellyfish Lake), Palau.*" Co-PIs: M.N Dawson, L.E. Martin, W.M. Hamner. \$7,711.

- 1999 PADI Foundation, “*Perturbation of a biotically and socio-economically valuable ecosystem: implications for conservation and management of Jellyfish Lake, Palau.*” Co-PIs: M.N Dawson, L.E. Martin. \$2,200.
- 1999 Institute of the Environment, UCLA, “*Phylogeography and conservation genetics of the federally endangered tidewater goby.*” \$2,500.
- 1997–1998 International Women’s Fishing Association, Scholarship Trust, “*Molecular phylogenetics of marine lake invertebrates.*” \$1,000.
- 1997 American Museum of Natural History, Lerner-Gray Award, “*Comparative molecular and morphological phylogenetics and behavior of marine lake Scyphozoa.*” \$1,200.
- 1997–1999 Departmental Award for Graduate Research, UCLA, “*Comparative molecular phylogenetics of marine lake taxa.*” \$3,000.
- 1996 & 1999 Obst Award for Field Research, UCLA, “*Comparative molecular and morphological phylogenetics and behavior of marine lake Scyphozoa.*” \$1,350.
- 1996 Academic Senate preparatory study grant, UCLA, “*Molecular and morphological systematics of Aurelia.*” With L.E. Martin, K.A. Raskoff, and W.M. Hamner. \$1,800.
- 1995 Academic Senate preparatory study grant, UCLA, “*Preservation of marine invertebrate tissues for DNA analyses.*” With K.A. Raskoff and D.K. Jacobs. \$2,800.

### ***Other Funding***

- 2016 UCSC/National Park Service. “*Genomic analysis of selection in Pisaster ochraceus associated with seastar wasting disease*” Subaward to UC Merced. PI: M.N Dawson; \$12,000.
- 2016 National Science Foundation – Dimensions of Biodiversity, “*DIMENSIONS: Collaborative Research: Do parallel patterns arise from parallel processes.*” PI: M.N Dawson; DEB-1623851/EAR-1623851: \$3,600 supplemental funds.
- 2015 UNESCO. “*Analysis of sunblock chemicals in jellyfish lakes, Palau.*” Contract to Coral Reef Research Foundation. US\$30,000.
- 2012 Koror State Government, Palau. “*Analysis of sunblock chemicals in Clear Lake, Ngermeuangel Lake, and Ongeim’l Tketau Palau.*” Contract to Coral Reef Research Foundation in response to RFP No. 12-009. US\$13,000.
- 2012 Etpison Museum, Koror, Palau. Donation from proceeds of sales of “*Ongeim’l Tketau*” booklet (Patris et al. 2011) to Coral Reef Research Foundation. US\$2,000.
- 2007 Agencia Española de Cooperación Internacional, Government of Spain, “*Identification and comparison of species diversity in marine lakes, Palau.*”

Subcontract awarded to Coral Reef Research Foundation by Palau Conservation Society. US\$20,000.

- 2006 Marine Biodiversity and Ecosystem Functioning EU Network of Excellence (MarBEF) funding for symposium on "*Marine Connectivity*." Lead organizer: M.N Dawson. Co-organizers: J.P. Wares, A. Faucci. Up to EU56,000 (i.e. up to EU1000 for one registrant from each of the 56 MarBEF institutions; 10 registrants).
- 2006 Past Global Changes (PAGES) funding for symposium on "*Marine Connectivity*." Lead organizer: M.N Dawson. Co-organizers: J.P. Wares, A. Faucci. US\$4,000.

### INVITED SEMINARS

[back to index page](#)

- 2014 *Jellyfish blooms, larval dispersal, and natural experiments in the sea.* Romberg Tiburon Center, CSU San Francisco, USA. February 12<sup>th</sup>.
- 2013 *Dispersal, diversity, and jellyfish blooms.* Bodega Marine Laboratory, UC Davis, USA. July 17<sup>th</sup>.
- 2012 *Experimental phylogeography.* Bangor University, Wales. October 03<sup>rd</sup>.
- 2012 *On the generality of ecological and evolutionary processes.* Departamento de Biogeografía y Cambio Global, Museo Nacional de Ciencias Naturales (CSIC), Madrid, Spain. September 28<sup>th</sup>.
- 2012 *On the generality of ecological and evolutionary processes.* Center for Marine Sciences, University of Algarve, Portugal. September 26<sup>th</sup>.
- 2012 *On the generality of ecological and evolutionary processes.* Department of Biological Sciences, Aarhus University, Denmark. September 24<sup>th</sup>.
- 2012 *Comparative biogeography: chance and predictability in patterns of marine biodiversity.* National University of Singapore, Singapore. April 23<sup>rd</sup>.
- 2012 *What is the role of chance in marine evolutionary dynamics?* Florida International University, Miami, USA. January 26<sup>th</sup>.
- 2011 *Comparative marine biogeography.* University of Brest, France. September 28<sup>th</sup>.
- 2010 *The phylogeny and ecology of jellyfish (Scyphozoa) mass occurrences.* California State University, Fresno, California, USA. March 12<sup>th</sup>.
- 2009 *The evolutionary ecology of marine lakes.* California Academy of Sciences, California, USA. March 26<sup>th</sup>.
- 2008 *The evolutionary ecology of marine lakes.* The Department of Ecology, Evolution, and Natural Resources, Rutgers University, New Jersey, USA. February 14<sup>th</sup>.
- 2008 *The evolutionary ecology of marine lakes.* The Department of Ecology, Evolution, and Environmental Biology, Columbia University, New York, USA. January 31<sup>st</sup>.



- 2007 *Community assembly and population dynamics in Indo-West Pacific marine lakes.* Environmental Systems, UC Merced, California, USA. September 19<sup>th</sup>.
- 2007 *Marine lakes: experiments in ecology and evolution.* Scripps Institution of Oceanography, UCSD, San Diego, California, USA. June 6<sup>th</sup>.
- 2006 *Microevolution and macroevolution: two perspectives on speciation in Scyphozoa.* The Australian Museum, Sydney, NSW, Australia. October 29<sup>th</sup>.
- 2006 *Seawater lakes: a zoetrope for marine evolutionary biology.* California State University, Northridge, California, USA. May 26<sup>th</sup>.
- 2006 *Seawater lakes: a zoetrope for marine evolutionary biology.* UC Merced, California, USA. May 14<sup>th</sup>.
- 2006 *Rapid evolutionary radiation of marine zooplankton in peripheral environments.* Rice University, Texas, USA.
- 2005 *Scales and rates of evolution in marine meroplankton.* University of Liverpool, United Kingdom.
- 2005 *Rapid evolutionary radiation of marine zooplankton in peripatry: a paragon or parody of evolution in the seas, or just a peculiarity?* Bodega Marine Laboratory, California, USA.
- 2005 *Rapid evolutionary radiation of marine zooplankton in peripatry, and other stories.* Ecology and Evolutionary Biology, University of California, Santa Cruz, USA.
- 2005 *Island evolution in marine lakes: a paragon or parody of evolution in the seas, or just a peculiarity?* Centre for Population Biology, University of California, Davis, USA.
- 2005 *Integrative marine science: molecular phylogenetics, ecology, and evolution.* School of Marine Biology & Aquaculture, James Cook University, Australia.
- 2004 *Perspectives on marine ecology, evolution, and conservation genetics.* Hawai'i Institute of Marine Biology, University of Hawai'i, USA.
- 2004 *Islands in the Stream: isolation and evolution in marine species.* Dauphin Island Sea Lab, Alabama, USA.
- 2003 *Islands in the Stream: patterns of marine biodiversity and some implications for conservation – examples from the 'fishes (Scyphozoa and Teleostei).* Zoology, University of Hawai'i, USA.
- 2003 *Islands in the Stream: patterns of marine biodiversity and some implications for conservation – examples from the 'fishes (Scyphozoa and Teleostei).* Biological Sciences, University of New South Wales, Sydney, Australia.
- 2003 *Biodiversity in the Scyphozoa.* Australian Institute of Marine Sciences, Queensland, Australia.

- 2001 *Islands in the Stream: geographic isolation and evolution in coastal marine 'fishes (Scyphozoa and Teleostei)*. Biological Sciences, University of Sydney, New South Wales, Australia.
- 2001 *Ecological and molecular phylogenetic studies of marine lake jellyfish, Palau*. Biological Sciences, Yamagata University, Yamagata, Japan.
- 2001 *Phylogeography and ecology of coastal marine 'fishes: Scyphozoa and Teleostei*. Dauphin Island Sea Lab, Alabama, USA.
- 2000 *Molecular variation and evolution in coastal marine taxa*. Pacific Forum, Monterey Bay Aquarium Research Institute, California, USA

### **SYMPOSIUM AND WORKSHOP ORGANIZATION**

[back to index page](#)

- 2013 *Global Change, Disease Ecology, and Evolutionary Management*. The Annual Sigma Xi (UC Merced chapter) Spring Symposium & Banquet. UC Merced. 7<sup>th</sup> March.
- 2007 *Maritime Connectivity*. A symposium at the 3<sup>rd</sup> Biennial Meeting of the International Biogeography Society, Puerto de la Cruz, Tenerife, Canary Islands. 9<sup>th</sup>-13<sup>th</sup> January, 2007. Co-organizers: J.P. Wares, A. Faucci. Speakers: D. Bellwood, K. Darling, C. Maggs, C. Meyer, J. Waters.
- 2007 *Diversity: from Adenine to Zoogeography*. A symposium at the 2<sup>nd</sup> International Jellyfish Blooms Conference, Griffith University, Gold Coast, Australia. 9<sup>th</sup>-13<sup>th</sup> September.
- 2007 *Cnidaria Tree of Life (CnidToL) – training to collect and identify medusae*. A workshop at the. 2<sup>nd</sup> International Jellyfish Blooms Conference, Griffith University, Gold Coast, Australia. 9<sup>th</sup>-13<sup>th</sup> September.

### **WORKING GROUPS**

[back to index page](#)

- 2016 *FuturePhy - Cnidaria*. University of Chicago, Chicago, Illinois. 21<sup>st</sup>-23<sup>rd</sup> October.
- 2013 *LIPI-NSF Indonesia Dimensions of Biodiversity Workshop*. Cibinong Science Center, Bogor, Indonesia. 04-06<sup>th</sup> February.
- 2010 *Jellyfish Blooms*. National Center for Ecological Analysis and Synthesis, Santa Barbara, California, USA. 28<sup>th</sup> February, 06<sup>th</sup>-09<sup>th</sup> May.
- 2007 *Insights From Exotics: Ecological Saturation*. National Center for Ecological Analysis and Synthesis, Santa Barbara, California, USA. 10<sup>th</sup>-12<sup>th</sup> September.
- 2006 *Insights From Exotics*. National Center for Ecological Analysis and Synthesis, Santa Barbara, California, USA. 25<sup>th</sup>-27<sup>th</sup> September.

- 2003 *The Scyphozoan*. [Oral presentation, Dawson, M.N.] Workshop on Electronic Resources, 7<sup>th</sup> International Conference on Coelenterate Biology, 12<sup>th</sup>-13<sup>th</sup> July, University of Kansas, Lawrence, Kansas, USA.

## WORKSHOPS & TRAINING

[back to index page](#)

- 2016 *9<sup>th</sup> Annual Mentoring Conference: Developmental Networks – the Power of Mentoring & Networking*. “Starting and Supporting Mentoring Programs” workshop. Mentoring Institute, University of New Mexico, Albuquerque. 24<sup>th</sup> – 28<sup>th</sup> October.
- 2016 *NSF Dimensions of Biodiversity PI Meeting*. National Science Foundation, Arlington. 29<sup>th</sup> February – 01<sup>st</sup> March.
- 2013 *NSF Dimensions of Biodiversity PI Meeting*. National Science Foundation, Arlington. 16<sup>th</sup> February.
- 2012 *NESCent Academy Next-gen Sequencing course*. National Evolutionary Synthesis Center, Durham, North Carolina, USA. 11<sup>th</sup>-19<sup>th</sup> June.
- 2003 *Ascidians*. Patricia Kott. 10<sup>th</sup>-14<sup>th</sup> November, Charles Darwin University, Darwin, Australia. Five-day course on ascidian taxonomy.

## CONFERENCE PRESENTATIONS

[back to index page](#)

### *Plenary / Keynote*

- 2013 Dawson, M.N. *Natural experiments*. Plenary Lecture, German Zoological Society (DZG) Annual Meeting, 14<sup>th</sup>-16<sup>th</sup> September, Ludwig-Maximilians-University Munich, Germany.
- 2011 Dawson, M.N. *Advances in marine biogeography*. Keynote presentation. International Biogeography Society Early Career Conference, 23<sup>rd</sup>-25<sup>th</sup> September, University of Oxford, UK.
- 2009 Dawson, M.N. *The ever-changing sea – physico-biological systems still eluding prediction*. Plenary Address. European Conference on Complex Systems, 21<sup>st</sup>-25<sup>th</sup> September, University of Warwick, Warwickshire, UK.

### *Invited*

- 2016 Dawson, M.N, L. Schiebelhut, B. Gaylord, R.K. Grosberg, P.T. Raimondi & J.P. Wares. *What is written in the stars? Fortunate and Unfortunate Nature*. UC Carbon Slam. 23<sup>rd</sup> May, PARC - a Xerox Company, Mountain View, CA, USA.

- 2016 Dawson, M.N, J.M. Beman, J. Blois, J.P. Sachs, H. Stibor, J. Sachs, S. Behl, T. McGee, M. Meyerhoff, M. Parekh, P. Pondaven, L. Schiebelhut, H. Swift, & J. Wilson. *Parallel eco-evolutionary processes in: microbes–macrobes, alleles–taxa, the past and present?* NSF Dimensions of Biodiversity PI Meeting. 29<sup>th</sup> February, National Science Foundation, Arlington. USA.
- 2014 Dawson, M.N, J.M. Beman, J. Blois, J.P. Sachs, H. Stibor, S. Behl, T. McGee, P. Pondaven, L. Schiebelhut, & H. Swift. *The origins, persistence, and loss of biodiversity in marine lakes.* Ecological Society of America—Island Biogeography, from the Oceans to the Sky: Recent Advances and an Emerging Synthesis. 14<sup>th</sup> August, Sacramento, USA.
- 2013 Dawson, M.N, J.M. Beman, H. Stibor, P. Pondaven, & S. Behl. *Island biogeography of marine microbes, phytoplankton, and macroinvertebrates: parallel patterns, parallel processes?* 6<sup>th</sup> Biennial International Biogeography Society meeting—Island Biogeography symposium. 10<sup>th</sup> January, Florida International University, Miami, USA.
- 2012 Dawson, M.N. *How can genetics help us understand the cause(s) of jellyfish blooms?* Mol-Tools Workshop, 12-14<sup>th</sup> September, Università del Salento, Lecce, Italy.
- 2010 Dawson, M.N, K.M. Bayha, L.E. Gómez Daglio, & A.G. Collins. *The phylogeny and ecology of jellyfish (Scyphozoa) mass occurrences.* Cnidarian Tree of Life Symposium at the Annual Meeting of the Society for Integrative and Comparative Biology, 03<sup>rd</sup>-07<sup>th</sup> January, Seattle, USA.
- 2008 Dawson, M.N. *Aggregations, blooms, and swarms: the evolution of mass occurrences of jellyfish (Cnidaria: Scyphozoa).* International Symposium for Kuroshio Studies, 01<sup>st</sup>-04<sup>th</sup> December, National Sun Yat-sen University, Kaohsiung, Taiwan.
- 2007 Dawson, M.N. *Rates and scales of evolution in marine plankton.* American Society of Limnology and Oceanography 4<sup>th</sup>-9<sup>th</sup> February, Santa Fe, New Mexico, USA.
- Oral**
- 2016 Dawson, M.N & L.M. Schiebelhut. *Using natural experiments to explore correlates of genetic differentiation.* Evolution 2016, 18<sup>th</sup>-21<sup>st</sup> June, Austin, Texas, USA.
- 2015 Dawson, M.N & L.M. Schiebelhut. *Using natural experiments to explore correlates of genetic differentiation.* Western Society of Naturalists, 4<sup>th</sup>-8<sup>th</sup> November, Sacramento, California, USA.
- 2013 Dawson, M.N, M.B. Decker, C. Lucas, G. Hays, V. Hobson, K. Pitt, & S.-I. Uye. *The population biology and population genetics of Discomedusae.* 4<sup>th</sup> Jellyfish Blooms Symposium, 5<sup>th</sup>-7<sup>th</sup> June, Hiroshima, Japan.
- 2012 Dawson, M.N, C.G. Hays, R.K. Grosberg, & P.T. Raimondi. *Dispersal potential and population genetic structure of synchronously diverging co-distributed marine*

- intertidal taxa*. Western Society of Naturalists, 8<sup>th</sup>-11<sup>th</sup> November, Seaside, Monterey, California, USA.
- 2011 Dawson, M.N. *Four questions in contemporary jellyfish biology*. ASLO, the society for Advancing the Science of Limnology and Oceanography, 13<sup>th</sup>-18<sup>th</sup> February, San Juan, Puerto Rico.
- 2011 Dawson, M.N. *Speciation, in the sea?* Society of Integrative and Comparative Biology, 3<sup>rd</sup>-7<sup>th</sup> January, Salt Lake City, Utah, USA.
- 2010 Dawson, M.N. *Cryptic ecology*. 3<sup>rd</sup> International Jellyfish Blooms Symposium, 13<sup>th</sup>-16<sup>th</sup> July, Mar del Plata, Argentina.
- 2010 Dawson, M.N, C.G. Hays, & J.M. Lehman. *Community genetics of the California Mainland and Island Array*. Annual Meeting of the American Society of Naturalists (ASN), Society for the Study of Evolution (SSE), & Society of Systematic Biologists (SSB), 25<sup>th</sup>-29<sup>th</sup> June, Portland, Oregon, USA.
- 2009 Dawson, M.N, K.M. Bayha, & W.M. Hamner. *The evolutionary ecology of mass occurrences of jellyfishes*. Coastal and Estuarine Research Federation, 1<sup>st</sup>-5<sup>th</sup> November, Portland, Oregon, USA.
- 2008 Dawson, M.N, L.E. Martin, L.J. Bell, S. Patris, M. Kelly, J.M. Lehman, & J. Vo. *Ecology and evolution in marine lake 'islands' across the coral triangle*. World Conference on Marine Biodiversity, 11<sup>th</sup>-15<sup>th</sup> November, Valencia, Spain.
- 2008 Dawson, M.N, J.M. Lehman, & J. Vo. *Rapid, parallel, morphological evolution following founder events in jellyfishes, mollusks, and fishes, in marine lakes of the Indo-West Pacific*. Annual Meeting of the ASN, SSE, & SSB, 20<sup>th</sup>-24<sup>th</sup> June, Minneapolis, Minnesota, USA.
- 2008 Bayha, K.M., A.G. Collins, & M.N Dawson. *Rates of diversification in the large marine jellyfish (Cnidaria: Scyphozoa)*. Annual Meeting of the ASN, SSE, & SSB, 20<sup>th</sup>-24<sup>th</sup> June, Minneapolis, Minnesota, USA.
- 2007 Dawson, M.N. *Maritime connectivity*. International Biogeography Society, 3<sup>rd</sup> Biennial Meeting, 9<sup>th</sup>-12<sup>th</sup> January, Puerto de la Cruz, Tenerife, Spain.
- 2006 Dawson, M.N, R.K. Grosberg, E. Sanford, & Y.E. Stuart, &. *Genetics of range limits in a recently expanded population of intertidal barnacle (Tetraclita rubescens)*. Annual Meeting of the ASN, SSE, & SSB, 23<sup>rd</sup>-27<sup>th</sup> June, Stony Brook, New York, USA.
- 2005 Dawson, M.N, & W.M. Hamner. *Rapid evolutionary radiation of marine zooplankton in peripatry*. Annual Meeting of the ASN, SSE, & SSB, 10<sup>th</sup>-14<sup>th</sup> June, Fairbanks, Alaska, USA.
- 2004 Dawson, M.N, L.J. Bell, & L.E. Martin. *An introduction to patterns of biodiversity in marine lakes: ecology, evolution, and biogeography*. 10<sup>th</sup> International Coral Reef Symposium, 28<sup>th</sup> June-2<sup>nd</sup> July, Okinawa, Japan.
- 2004 Dawson, M.N, W.M. Hamner, & L.E. Martin. *Rapid evolution of Mastigias*

- (*Scyphozoa*) in Holocene marine lakes: an island biogeography for the seas? 10<sup>th</sup> International Coral Reef Symposium, 28<sup>th</sup> June-2<sup>nd</sup> July, Okinawa, Japan.
- 2004 Dawson, M.N. *Peripatric speciation and evolutionary radiation of Mastigias (Scyphozoa) in marine lakes during the Holocene: an island biogeography for the seas?* Ocean Research Conference, 15<sup>th</sup>-20<sup>th</sup> February, American Society of Limnology and Oceanography/The Oceanography Society, Hawai'i, USA.
- 2003 Dawson, M.N. *Biodiversity in the Scyphozoa.* 7<sup>th</sup> International Conference on Coelenterate Biology, 7<sup>th</sup>-11<sup>th</sup> July, University of Kansas, Lawrence, Kansas, USA.
- 2002 Dawson, M.N., & L.E. Martin. *Geographic variation in the jellyfishes Aurelia and Mastigias (Cnidaria, Scyphozoa).* Genetics Society of Australia, annual meeting. 9<sup>th</sup>-11<sup>th</sup> July, University of New South Wales, Sydney, Australia.
- 2001 Dawson, M.N. *Ecological and molecular phylogenetic studies of marine lake jellyfish, Palau.* Marine Life Histories: Molecular approaches and its current state and perspectives - the dynamics of marine living systems. 5<sup>th</sup>-6<sup>th</sup> July, Tokyo University, Tokyo, Japan.
- 2000 Dawson, M.N., L.E. Martin, & L.K. Penland. *Jellyfish swarms, tourists, and the Christ-child.* International Symposium on Jellyfish Blooms, Gulf Shores, Alabama.
- 2000 Dawson, M.N., & L.E. Martin. *Molecular variation in Aurelia and its implications for ecological research.* International Symposium on Jellyfish Blooms, Gulf Shores, Alabama.
- 1999 Dawson, M.N., & D.K. Jacobs. *Comparative phylogeography and zoogeography of coastal California.* Annual Meeting of the ASN, SSE, & SSB, Madison, Wisconsin.
- 1999 Dawson, M.N., & D.K. Jacobs. *Comparative phylogeography and zoogeography of coastal California.* Annual Meeting of the Southern California Academy of Sciences, Los Angeles, California.
- 1999 Dawson, M.N., & D.K. Jacobs. *Conservation genetics of the endangered California tidewater goby, Eucyclogobius newberryi.* Annual Meeting of the American Fisheries Society (California & Nevada chapters), Redding, California.
- Poster**
- 2015 Swift, H.F., & M.N Dawson. *Genetic diversity of jellyfishes and population dynamics of plankton following environmental perturbation.* Western Society of Naturalists, 4<sup>th</sup>-8<sup>th</sup> November, Sacramento, California, USA.
- 2015 Schiebelhut, L.M., B. Gaylord, R.K. Grosberg, L.J. Jurgens, & M.N Dawson. *Recovery from a massive invertebrate die-off along the central coast of California.* Western Society of Naturalists, 4<sup>th</sup>-8<sup>th</sup> November, Sacramento, California, USA.

- 2015 Parekh, M.K. & M.N Dawson. *Parallel patterns of genetic and community diversity in marine environments?* Western Society of Naturalists, 4<sup>th</sup>-8<sup>th</sup> November, Sacramento, California, USA.
- 2015 Dawson, M.N, H.F. Swift, & L. Gómez-Daglio. *Diversity in the jellyfishes: rampant homoplasy and rampant variation.* Systematics Association UK, 10<sup>th</sup> Biennial meeting, 26<sup>th</sup>-28<sup>th</sup> August, Oxford, England.
- 2015 Schiebelhut, L.M., M.N Dawson. *Correlates of gene flow in terrestrial and marine environments.* International Biogeography Society, 7<sup>th</sup> Biennial meeting, 9<sup>th</sup>-12<sup>th</sup> January, Bayreuth, Germany.
- 2015 Dawson, M.N, L.M. Schiebelhut. *Diversity, differentiation, and zonation of marine lake communities.* International Biogeography Society, 7<sup>th</sup> Biennial meeting, 9<sup>th</sup>-12<sup>th</sup> January, Bayreuth, Germany.
- 2011 Dawson, M.N, C.G. Hays, B.P. Gaylord, R.K. Grosberg, C.M. Halle, K. Kusic Heady, J.L. Largier, K. Nickols, & P.T. Raimondi. *Gene flow and community similarity parallel environmental connectivity.* International Biogeography Society, 5<sup>th</sup> Biennial meeting, 7<sup>th</sup>-11<sup>th</sup> January, Irakleion, Crete, Greece.
- 2009 Dawson, M.N, L.E. Martin, L.J. Bell, & S. Patris. *Island biogeography and evolution in marine environments.* International Biogeography Society, 4<sup>th</sup> Biennial Meeting, 8<sup>th</sup>-12<sup>th</sup> January, Mérida, Yucatan, México.
- 2005 Dawson, M.N, A.S. Gupta, & M.H. England. *Global ocean model and molecular genetic analyses identify multiple introductions of cryptogenic species.* Annual Meeting of the ASN, SSE, & SSB, 10<sup>th</sup>-14<sup>th</sup> June, Fairbanks, Alaska, USA.
- 2005 Dawson, M.N, A.S. Gupta, & M.H. England. *Global ocean model identifies multiple introductions worldwide of a cryptogenic species.* International Biogeography Society, 2<sup>nd</sup> Biennial Meeting, 4<sup>th</sup>-8<sup>th</sup> January, Sheperdstown, West Virginia, USA.
- 2000 Barlow, M., M.N Dawson, & D.K. Jacobs. *Genetic effects of natural and human-mediated recolonizations by the tidewater goby – preliminary results.* Annual Graduate and Undergraduate Research Symposium, Department of Organismic Biology, Ecology, and Evolution (OBEE), University of California, Los Angeles (UCLA).
- 1999 Dawson, M.N, & D.K. Jacobs. *Comparative phylogeography and marine zoogeography in coastal California.* Annual Graduate and Undergraduate Research Symposium, OBEE, UCLA.
- 1998 Dawson, M.N, & D.K. Jacobs. *The phylogeography of the endangered California tidewater goby, Eucyclogobius newberryi, and the zoogeography of coastal California.* Annual Graduate and Undergraduate Research Symposium, OBEE, UCLA

- 1996 Dawson, M.N. *The evolution of Aurelia and Mastigias (Cnidaria, Scyphozoa) in marine lakes, Palau*. Annual Meeting of the ASN, SSE, & SSB, St. Louis, Missouri.

## TEACHING EXPERIENCE

[back to index page](#)

### *Teaching Positions*

- 2007 –present As faculty in Ecology & Evolutionary Biology undergraduate emphasis, and the Quantitative & Systems Biology Graduate Group at UC Merced.
- Undergraduate
- Lecture* - BIO/ESS 34 – Introduction to Marine Science (once)
- Lecture* - BIO 141 – Evolution (10 times)
- Advisory* - BIO 095 – Research Projects in Biology (per student per semester)
- Advisory* - BIO 195 – Research Projects in Biology (per student per semester)
- Seminar* - ESS 190 – Earth Systems Science Seminar Series (w/ ES 291; once)
- Graduate
- Seminar* - ES 291 – Environmental Systems Seminar Series (w/ ESS 190; once)
- Lecture* - QSB 244 – Phylogenetics (once)
- Lecture* - ES/QSB 245 – Biogeography (twice)
- Lecture* - ES/QSB 249 – History, Philosophy, & Practice of Science (once)
- Lecture* - QSB 290 – Current topics in Quantitative & Systems Biology (thrice)
- Seminar* - QSB 291 – Quantitative & Systems Biology Seminar Series (four times)
- Seminar* - QSB 292/3 – Quantitative & Systems Biology lab meeting (per semester)
- Advisory* - QSB 295 – Graduate Research (per graduate per semester)
- 2000 Academic Co-ordinator, Life Science Core, University of California, Los Angeles.  
 Life Science 1 – Ecology, Evolution, and Biodiversity  
 Life Science 2 – Cells, Tissues, and Organs  
 Life Science 3 – Introduction to Molecular Biology
- 1996–2000 Teaching Fellow, University of California, Los Angeles.  
 Introduction to Marine Biology  
 Evolution and Ecology  
 Marine Biology Quarter, Hawaii
- 1994–1995 Teaching Assistant, University of California, Los Angeles.  
 Principles of modern biology  
 Organismic and environmental biology

### *Guest Lectures*

- 2008-present “All things great from small”, CORE1 General Education, Fall and/or Spring semesters, UC Merced.



- 2002 “Phylogenetics: what does it mean to you?” BIOS4511 Essential Skills, Honours program; School of Biological, Earth, and Environmental Sciences, University of New South Wales, Australia.
- 2001 “Marine Lakes, Palau” – Coral Reefs Undergraduate Summer Course, Dauphin Island Sea Lab, Dauphin Island, Alabama, USA.
- 2000 “An history of marine diversity” – Introduction to Marine Biology, UCLA.  
 “Invertebrate Zoology” – Introduction to Marine Biology, UCLA.  
 “Biological Classification and Evolution” – Life Science 1, UCLA.

### ***Seminar Organization***

- 2013 Spring ESS190/ES291 Seminar Series, UC Merced. (See *Teaching Positions*)
- 11/06-05/10 QSB Seminar Series Organizing Committee, UC Merced. (See *Teaching Positions*)
- 1998–1999 Departmental Seminar Series, Organismic Biology, Ecology, and Evolution, UC Los Angeles. Participants: John Benzie (Australian Institute of Marine Science), Paul Cornelius (Natural History Museum, London), Michael Ghiselin (California Academy of Sciences), Sandra Harding (Women’s Studies, UCLA), Ted Porter (History, UCLA).
- 1998 “History and Philosophy of Science” graduate seminar, conceived and organized with L. E. Martin. Faculty sponsor: D.K. Jacobs. Participants: Michael Ghiselin, Sandra Harding, Ted Porter, & Banu Subramaniam (UCLA, University of Arizona).

### ***Course Development***

- 2007-present As faculty at University of California, Merced.  
 BIO 141 – Evolution (2008, 2014)  
 BIO/ESS 34 – Introduction to Marine Science (2011)  
 QSB 290 – Current topics in Quantitative and Systems Biology (2007)  
 QSB 291 – Quantitative and Systems Biology Seminar Series (2007)  
 QSB 244 – Phylogenetics (2011)  
 ES/QSB 245 – Biogeography (2015)  
 ES/QSB 249 – History, Philosophy, & Practice of Science (2016)
- 2000 Designed a practical laboratory introduction "Scientific method, report writing, and basic statistics" – for the LS2 undergraduate course at UCLA.
- 2000 Designed four laboratory and field exercises – oceanography, marine primary producers, invertebrate zoology, and intertidal ecology – for the “Introduction to Marine Biology” majors course at UCLA.

### ***Professional Development***

- Spring 2015 *Assessing Undergraduate Learning Outcomes: Pedagogy and Program Planning* Learning Community Project. Mentor to graduate student Ms. Lauren Schiebelhut

2008 Minigrant, Centre for Research on Teaching Excellence, UC Merced, Fall semester. To redevelop curriculum for BIS141 Evolution. \$4,683.

### ***Postdoctoral scholars mentored***

2009-2011 Dr. Cynthia G. Hays (July 2009 – June 2011).

2010-2011 Dr. Keith M. Bayha (December 2007 – December 2009).

### ***Student Supervision***

#### *Graduate research advisor (UCM)*

##### *PhD*

Lauren Schiebelhut (Fall 2010 – present), long-distance dispersal

Liza Gómez-Daglio (Fall 2007 – Summer 2016), Scyphozoa of Central America

Holly Swift (Fall 2007 – Summer 2016), Evolution and trophic ecology of *Mastigias*

##### *MS*

Sarah Abboud (Spring 2010 – Spring 2016), environmental change & jellyfish blooms

Sharon Patris (Spring 2010 – Summer 2015), invasive species in marine islands

Joan Lehman (Spring 2009 – Spring 2011), comparative phylogeography of *Lottia*

#### *Thesis committee member (UCM unless noted otherwise)*

##### *PhD*

J. Eric Williams (AY2015-present), velocity of paleoclimate and small mammal migrations

Chris Greisemer (AY2013-present, UC Davis), dispersal & recruitment of porcelain crabs

Jesse Wilson (AY2012-present), microbial biogeography of marine lakes

Jason Baumsteiger (AY2009-2013), comparative phylogeography of sculpin

Joseph Heras (AY2009-present), comparative genomics of rockfishes

Miguel Fernandez (AY2010-2013), climate change & niche modeling

Michael DeSalvo (AY2006-2010), coral ecological genomics

Mariah Meek (AY2005-2010, UC Davis), genetics of invasive hydrozoans

Luciano Chiaverano (AY2004-2012, Dauphin Island Sea Lab, Alabama), ecology, morphology, and molecular systematics of scyphomedusae

##### *MS*

Matthew Meyerhof (AY2009-2012), comparative microbial biogeography

#### *Graduate research mentor*

Sabah Ul-Hasan (2015), micro-evolution of jellyfish symbioses

Mariana Rocha de Souza (Fall 2014–Summer 2016), macro-evolution of jellyfish symbioses

Mariah Meek (AY2005-2010, UCD), genetics of invasive hydrozoans

Stephanie Porter (AY2005-206, UCD), *Mastigias-Symbiodinium* symbiosis

*Undergraduate research mentor (UCM unless noted otherwise)*

Kameron Jones (Spring & Fall 2015), curation and lab practices, polyp surveys  
 Judith Bayardo-Guzman (Spring & Fall 2015), curation and lab practices, polyp surveys  
 Amanjit Ahuja (Summer 2012-Fall 2013), photodocumentation and database management  
 Lubna Aman (Summer 2012), sedimentary environment of marine lakes  
 Kiran Chauhan (AY 2011- Spring 2014), population genetics of *Aequorea*, *Aurelia*  
 Jason Doornenbal (AY 2011-Spring 2014), scyphozoan systematics  
 Moon Park (AY 2011-Fall 2013), foraminiferan community diversity  
 Carly Stilphen (AY 2011-2012), scyphozoan systematics  
 Kirandeep Bains (AY 2010-2011), *Nerita* population genetics  
 Alfredo Villicana Bedolla (AY 2010-2011), algae phylogeography  
 David Ona (AY 2011-2012), algae phylogeography  
 Vera Diaz (AY 2009-2010), scyphozoan systematics  
 Emily Wilson (Fall 2008), the fecundity advantage hypothesis in Scyphozoa  
 Kimberley Yan (Summer 2008), gene flow and fluid regimes  
 Joan Lehman (AY 2007-2008), morphology and phylogeography of *Sphaeramia*  
 Yoel Stuart (AY2005-2006, UCD), population genetics of *Tetraclita*  
 Chelsea Hertzog (AY2005-2006, UCD), population genetics of *Lottia*  
 Saeed Heydarnejad (AY2002-2003, UNSW), *Rhabdosargus sarba* phylogeography  
 Neil Gemmell (AY2002-2003, UNSW), *Stigmatopora* phylogeography  
 Emily Wong (AY2002-2003, UNSW), *Mastigias* phylogeography  
 various undergraduates trained in basic molecular techniques and phylogenetics (UCLA)

*Other mentoring*

Madlen Friedrich, intern (April-Dec 2015), *Mastigias* adaption genetics  
 Gerlien Verhaegen, UCL intern (January-May 2014), NE Pacific jellyfish phylogeography  
 Sofie Rutsaert, U. Galway graduate intern (January-May 2014), Coronate phylogenetics  
 Barbara Scholz, LMU graduate intern (January-June 2013), *Nerita* morphometrics, genetics  
 Mariana Rocha de Souza, University Aix en Marseille graduate intern (January-June 2013),  
*Mastigias papua* holotype redescription  
 Giorgio Aglieri, Università del Salento, Lecce, Italy, graduate intern (January-June 2011),  
*Pelagia* phylogeography  
 Anh Nguyen, UCM postgraduate volunteer (Spring 2012-present), *Nerita* morphometrics,  
 database management  
 Annie Schimon, Kalamazoo College undergraduate volunteer (Summer 2009), predator-prey  
 dynamics in Ongeim'l Tketau  
 Serafino Bodavos, Merced high school volunteer (Summer 2008), *Sphaeramia* morphometrics

*Educational Outreach*

- 2012 Slide show and discussion with the Soroptimists of Atwater, on “*Jellyfish Lake, Palau.*” Atwater Community Center, 21<sup>st</sup> March 2012.
- 2011 UC Merced Library multimedia exhibit “*Exploring Marine Biodiversity and Environments*” elucidating the process of biological and physical scientific

- research, both in the field and back at the lab. On display from April 15<sup>th</sup> through July 30<sup>th</sup>, 2011. Exhibit curated by Joseph Ameen, Amanda Morgan, Michael N Dawson. Including lunch-time talk on science & poetry with Jared Stanley.
- 2009-present Established, mentored, and supported the *Science Alliance*, a student club spanning all majors to promote scholarship, professional development, and evidence-based public education.
- 2008 Consultant for National Science Foundation Special Report "Jellyfish gone wild!" [http://www.nsf.gov/news/special\\_reports/jellyfish/index.jsp](http://www.nsf.gov/news/special_reports/jellyfish/index.jsp)
- 2008 Frontiers of Science and Engineering Lecture Series, 2008. "In it for the long haul: an evolutionist's perspective on agriculture, environment, fisheries, and health." Castle Challenger Learning Center, Atwater, 20<sup>th</sup> September.
- 2007 Dinner with a Scientist, for 7-8<sup>th</sup> grade students from Merced School District. UC Merced, 27<sup>th</sup> March.
- 2007 Moderated graduate discussion group during the 3<sup>rd</sup> Biennial meeting of the International Biogeography Society, Tenerife, 11<sup>th</sup> January.
- 2006 *Mastigias papua etpisoni*. Contribution to Office for Environmental Research and Coordination, Palau National Government, endorsed webpages on endemic biota of Palau. Co-authored with L.E. Martin & L.J. Bell.
- 2001 Informal seminar on "Ecological and molecular phylogenetic studies of marine lake jellyfish, Palau" with University of Guam undergraduates in Environmental Biology (BI 100), 7<sup>th</sup> August. Faculty, Chris Lobban.
- 2001 Publication of news article "Jellyfish Lake recovers" in *Tia Belau*, Feb. 24, Palau's national weekly newspaper. Co-authored with L.J. Bell and L.E. Martin.
- 2001 Informal presentation at "Jellyfish Lake" to students in Marine Science at Palau Community College.
- 2000 Publication of news article "Jellyfish research goes on" in *Tia Belau*, Aug.30. Co-authored with L.J. Bell, L.E. Martin, and L.K. Penland.
- 1997–1999 Officiated in science fairs in Palau and Los Angeles as well as led field trips for Palauan elementary school children.
- 1997 Teaching Assistant for National Science Foundation funded "Leadership in Marine Science" (LIMS) program run jointly by UCLA Marine Science Center and the Los Angeles Unified School District. Responsibilities included laboratory set-up and providing content expertise for K-12 teachers.

**SERVICE**[back to index page](#)***Centre / Graduate Groups / School***

Member, Board (Nov 2015 – Oct 2017), Resource Center for Community Engaged Scholarship (ReCCES).

Chair, Lecturer Review Committee (AY2014), Biology [2 positions].

Member, Educational Policy Committee (AY2015–2016), Environmental Systems.

Member, ad hoc Grant Review Committee (AY2012–13, 2014–15), Environmental Systems.

Chair, Population Genetics/Genomics Search Committee (AY2012–13), Life & Environmental Sciences [2 positions].

Content editor, Life & Environmental Sciences website (AY2013–15), Life & Environmental Sciences.

Vice President, President, & Executive Committee member (AY2012–14), UC Merced Chapter of Sigma Xi.

Chair, Environmental Systems graduate group Educational Policy Committee (Aug 2012 – Nov 2012); School of Natural Sciences, University of California, Merced.

Chair, Mildred Mathias Award Committee (AY2011); Sierra Nevada Research Institute, University of California, Merced.

Member, Biology Undergraduate “Grossman Award” Committee (AY 2011–2012); School of Natural Sciences, University of California, Merced.

Developer, Chair, Ecology & Evolutionary Biology Postdoctoral Fellowship Committee (March 2011–March 2016); Environmental Systems & Quantitative and Systems Biology graduate groups, School of Natural Sciences, University of California, Merced.

Member, Environmental Systems graduate group Educational Policy Committee (Aug 2010 – Jul 2012); School of Natural Sciences, University of California, Merced.

Member, Sierra Nevada Research Institute Membership Committee (2010 – present).

Member, Quantitative and Systems Biology graduate group Executive Committee (Aug 2007 – Jul 2012); School of Natural Sciences, University of California, Merced.

Faculty ‘Point of Contact’ for Integrative Biology (IB) emphasis track in the Biology major (Nov 2006 – July 2007): Planning course offerings, course development, and student recruitment with Dean of Natural Sciences, Manager of Instructional Support and Student Affairs, and IB faculty. Answering student questions about IB.

Laboratory Manager (2002-2004): Centre for Marine and Coastal Studies, UNSW.

Webmaster: 1. Coral Reef Research Foundation (2001-present); 2. Centre for Marine and Coastal Studies, University of New South Wales (2002-2003).

***University of California, Merced***

Member, Divisional Council (AY 2015–2016): Academic Senate.

Chair, Graduate Council (AY 2015–2016): Academic Senate.

Chair, Senate Office staff search (AY 2015–2016): Academic Senate [2 searches].

Member, Administration-Senate 2020 Project Design meetings October 2015 (5 days).

Periodic Program Review team member: Spanish Minor (Spring 2014), Center for Research on Teaching Excellence (Spring 2015).

Member, Periodic Review Oversight Committee (AY 2014–2015): Senate-Administration committee (in capacity as Graduate Committee Vice-Chair).

Vice-Chair, Graduate Committee (AY 2014–2015): Academic Senate.

Member, Program Review Committee (AY 2013–2014): Academic Senate.

Representative, on the Fisheries & Wildlife Resources Section (May 2013 – present), *Commission on Food, Environment, and Renewable Resources*; Association of Public and Land-Grant Universities.

Member, Graduate and Research Council (Aug 2007 – Jul 2009): Academic Senate.

***University of California***

Coordinating Committee on Graduate Affairs, UC Senate, member (Sept 2015 – Aug 2016).

Associate Director, Network for Experimental Research on Evolution (May 2011 – June 2015).

Member, University of California Marine Council (July 2007 – June 2009).

***National***

Peer review (2012–present): National Science Foundation (Biodiversity: Discovery & Analysis, Biological Oceanography, Dimensions of Biodiversity).

Peer review (2007–2012): National Science Foundation (Assembling the Tree of Life, Biological Oceanography, International Polar Year - Environmental Genomics, Systematic Biology and Biodiversity Inventories).

Panel review (2007, 2013): National Science Foundation (Biotic Surveys & Inventories, Dimensions of Biodiversity).

Peer review (2001–2006): National Science Foundation (Biological Oceanography, Systematic Biology and Biodiversity Inventories), Washington Sea Grant Program.

***International***

Deputy Editor-in-Chief (2015–present), the *Journal of Biogeography*

Molecular Ecology 2015 – Top Reviewer 2015: in top 300 (8%) of most responsive and timely reviewers.

Associate Editor (2013–present), Cubozoa, Scyphozoa & Staurozoa for *Zootaxa*

Member, International Scientific Steering Committee (2012–2013), 8<sup>th</sup> *International Conference on Coelenterate Biology (ICCB)*, 1<sup>st</sup>-6<sup>th</sup> December, 2013.

Deputy Editor-in-Chief (2011–present), *Frontiers of Biogeography*

Associate Editor (2009–2015), the *Journal of Biogeography*

Vice President for Public Affairs & Communications (2009–2014 [three terms of two years]), the *International Biogeography Society*

Advisory & Editorial Board, ex officio (2009–2014), *Frontiers of Biogeography – the scientific magazine of the International Biogeography Society*

Member, Review Board (2006–2008): *Molecular Ecology*

Peer review (2012–present): *Axios Review*; *Biological Journal of the Linnean Society*; *Bulletin of Marine Science*; *Ecography*; *Ecological Applications*; *Ecological Monographs*; *Ecology Letters*; *Evolution*; *Hydrobiologia*; *Marine Ecology Progress Series*; *Molecular Ecology*; *Molecular Phylogenetics & Evolution*; *Nature Scientific Reports*; *PNAS*; *Zootaxa*; Ministry of Education of Singapore (Tier 2 Grant Call).

Peer review (2007–2012): *Aquatic Biology*; *Biological Bulletin*; *Conservation Biology*; *Conservation Genetics*; *Coral Reefs*; *Ecology*; *Estuarine, Coastal and Shelf Science*; *Ecography*; *Evolution*; *Geography Compass*; *Hydrobiologia*; *ICES Journal of Marine Science*; *Invertebrate Biology*; *Journal of Biogeography*; *Journal of Experimental Marine Biology and Ecology*; *Journal of Plankton Research*; *Marine Biology*; *Marine Ecology*; *Marine Ecology Progress Series*; *Molecular Ecology*; *Marine and Freshwater Research*; *Proceedings of the Royal Society of London A*; *Proceedings of the Royal Society of London B*; *Royal Society Biology Letters*; *Science*; *Trends in Ecology and Evolution*; *Zoological Journal of the Linnaean Society*; *Zootaxa*; National Geographic Society; Natural Environment Research Council UK (Sustainable Marine Bioresources); Natural Sciences and Engineering Council of Canada (Environmental Science and Technologies).

Peer review (2001–2006): *Beaufortia*; *Biological Bulletin*; *Estuarine, Coastal and Shelf Science*; *Evolution*; *Journal of Biogeography*; *Journal of Plankton Research*; *Marine Biology*; *Marine Ecology Progress Series*; *Molecular Ecology*; *Molecular Phylogenetics and Evolution*; *Proceedings of the Royal Society of London B*; Natural Environment Research Council UK (Marine Science).

External examiner (2010, 2011, 2016): Macquarie University, Australia (Ph.D. thesis of Ms. Kim Shaddick). University of the Western Cape, South Africa (M.Sc. thesis of Ms. Simone Neethling). University of Melbourne, Australia (Ph.D. thesis of Ms. Kate Naughton). GEOMAR, Germany (M.Sc. thesis of Ms. Madlen Friedrich).

**Consulting**

- 2010 *Koror State Government, Palau.* Wrote recommendations for marine lakes to be included in, and contributed to writing of the marine lakes section for, Koror State World Heritage Site proposal. Rock Islands Southern Lagoon inscribed July 2012.
- 2008 *BBC Natural History Unit.* For a section on marine lakes, Palau, in an episode of the *South Pacific* series describing interactions between geography and biodiversity.
- 2008 *Science Illustrated Magazine.* For an article on jellyfish blooms.
- 2006 *FAQ: Ongeim'l Tketau.* Presentation with extended question and answer session on marine lakes research and its management implications, for members of Koror State Government, the Department of Conservation and Law Enforcement, and Palau Conservation Society. 12<sup>th</sup> May, Koror State Capitol Building.
- 2004 *BBC Natural History Unit.* Scientific advisor for production of an episode of "TIME MACHINE" featuring *Mastigias* migrations in marine lakes, Palau.
- 2001–2002 Advisory Committee on Marine Protected Areas, Palau.  
Scientific guidance for legislation to establish nationwide network of federal and state managed Marine Protected Areas in Palau, Micronesia.
- 1998–2002 Coral Reef Research Foundation, Palau.  
Design and supervise a monthly program monitoring physical and biological changes in three marine lakes, Palau, Micronesia.
- 1999 Koror State Government, Palau.  
Marine lake conservation – human impacts on and ecological status of marine lakes, including the tourist destination “Jellyfish Lake”.
- 1997–1998 Palau Conservation Society, Palau.  
Marine lake management – impacts of tourism and development on, tourist education about, and conservation of “Jellyfish Lake”.
- 1997 Palau Visitors Authority, Palau.  
Author of a popular article describing “Jellyfish Lake”.

**PROFESSIONAL MEMBERSHIPS**[back to index page](#)

ASLO – American Society for Limnology and Oceanography / Advancing the Science of Limnology and Oceanography (2006–present)

Ecological Society of America (2013–2015)

International Biogeography Society (2005–present)

Society for the Study of Evolution (1997–present)

Society of Systematic Biologists (2006–present)