

Joshua A. Drew

The Field Museum
Biodiversity Synthesis Center
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Education:

Doctor of Philosophy (2008)

Boston University Marine Program

Thesis topic: Biogeography Evolution and Conservation of Melanesian Coral Reef Fishes

Advisor: Paul H. Barber

Master of Science (2000)

State University of New York

Thesis topic: Marine Reserves as an Alternative Fisheries Management Technique for the Bahamas

Advisor: Meg Stewart

Bachelor of Arts (1998)

Drew University

Biology Major, Anthropology and Environmental Studies Minors

Advisor: Lee Pollock

Employment:

Postdoctoral Research Scientist: Field Museum: 9/1/08- present

Research Fellow: Boston University Marine Program: Spring 03- Spring 08

Teaching Fellow: Boston University Marine Program: Fall 03, 05, 07

Research Assistant: Columbia University: 9/02 to 5/03

Research Assistant: Wildlife Conservation Society Marine Program: 10/00 to 7/02

Research Intern: American Museum of Natural History: 6/99 to 9/00

Peer Reviewed Publications:

Drew, J.A. and Barber, P.H. (2009) Sequential Cladogenesis of *Pomacentrus moluccensis* (Bleeker, 1853) Supports the Peripheral Origin of Marine Biodiversity in the Indo-Australian Archipelago. *Molecular Phylogenetics and Evolution* 53:355-359

Drew, J.A., Allen, G.R., Kaufman, L. and Barber, P.H. (2008) Regional Color and Genetic Differences Demonstrate Endemism In Five Putatively Cosmopolitan Reef Fishes. *Conservation Biology* 22(4) 965-975

Allen, G.R., **Drew, J.A.**, Kaufman, L. (2008) *Amphiprion barberi*, a new species of anemonefish (Pomacentridae) from Fiji, Tonga, and Samoa. *Aqua* 14(3) 105-114

Allen, G.R., **Drew, J.A.**, Barber, P.H. (2008) *Cirrhilabrus beauperryi*, a new wrasse (Pisces: Labridae) from Melanesia. *Aqua* 14(3) 129-140

Drew, J.A. and Henne, A. (2006) Conservation Biology and Traditional Ecological Knowledge: Integrating Academic Disciplines for Better Conservation Practice. *Ecology & Society* 11(2) 34. [online] URL: <http://www.ecologyandsociety.org/vol11/iss2/art34/>

Drew, J.A. (2005) Application of Traditional Ecological Knowledge in Marine Conservation. *Conservation Biology* 19(4) 1286-1293

Semmons, B.X., Brumbaugh, D. and **Drew, J.A.** (2005) Interpreting Space Use and Behavior of Blue Tang, *Acanthurus coeruleus*, in the Context of Habitat, Density and Intra-Specific Interactions. *Environmental Biology of Fishes* 74: 99-107

Publications in Review:

Drew, J.A., Allen, G.R., and Erdmann, M.V. (2009) Congruence Between Genes and Color Morphs in a Coral Reef Fish: Population Variability in the Indo-Pacific Damselfish *Chrysiptera rex* (Snyder, 1909). Submitted to *Coral Reefs*

Allen, G.R., **Drew, J.A.** and Erdmann, M.V. (2009) *Chrysiptera sp. nov.*, a New Species of Damselfish (Pomacentridae) from the South China Sea. Submitted to *Zoological Studies* (N.B. to avoid a nomen nudum I am not reporting the actual species name until this paper is accepted)

Drew, J.A. and Starger, C.J. (2009) Application of Ecological Formulae to Studies of Molecular Evolution. Submitted to *Diversity* (**Invited Review**)

Grants Awarded:

- 2009 *Biodiversity Synthesis Meeting Grant*. **\$30,000** (Encyclopedia of Life) A Multi-Taxa Approach Towards the Biogeography of Melanesia: Higher Order Science to Inform Conservation
- 2008 *Postdoctoral Research Fellowship in Bioinformatics* **\$123,000** (National Science Foundation) Phylogenetic and Biogeographic Patterns of Coral Triangle Fishes: Illustrating Biodiversity Patterns in the Encyclopedia of Life
- 2007 *Pittsburgh Zoo Conservation Fellowship* **\$1,800** (Pittsburgh Zoo & Aquarium) Phylogeography and capacity building in Fiji
- 2006 *Palmer McLeod Fellowship* (Boston University Marine Program), One year funding
Humes Alumni Award (Boston University Marine Program), **\$2000**,
Phylogeography in the Solomon Islands

- 2005 *Wildlife Conservation Society*, Visiting Scientist, **\$7,000** MPA connectivity in Fiji
2004 *Mia J. Tegner Award in Historical Ecology* (Marine Conserv.Biol. Inst.) **\$6000**
Shifting Baselines in Fiji

Selected Presentations:

Multi-Locus biogeography of *Amblyglyphidodon* and the evolution of marine biodiversity in the Coral Triangle. Presented at the Joint Meeting for the American Society of Ichthyologists and Herpetologists. Portland, OR 2009

Conservation, Genetics and the Spatial Scale of Population Connectivity in Coral Reef Fish: Presented at the 22nd Annual Society for Conservation Biology Meeting, Chattanooga TN 2008

Understanding Patterns of Gene Flow in Coral Reef Fishes: Multiple Species and Multiple Scales: Presented at the 11th International Coral Reef Society Meeting, Ft. Lauderdale, FL 2008

Consequences of not realizing one's (dispersal) potential: Phylogeography and Conservation of a Widespread Coral Reef Fish, *Halichoeres hortulanus*: Presented at the 21st Annual Society for Conservation Biology Meeting, Port Elizabeth South Africa 2007

Patterns of Genetic Connectivity in Marine Species at Multiple Scales: Implications for the Management of Coral Reefs: Presented at the 20st Annual Society for Conservation Biology Meeting, San Jose CA, 2006

Genetic Differentiation in Four Species of Coral Reef Fishes: Implications for the Generation and Conservation of Marine Biodiversity: Presented at the 2006 Ocean Sciences Meetings, Honolulu HI 2006

The Use of Traditional Ecological Knowledge in Marine Biology: Presented at 18th Annual Society for Conservation Biology Meeting, New York, NY 2004

Integration of Ethnobiology and Conservation Biology: Presented at the 17th Annual Society for Conservation Biology Meeting, Duluth, MN 2003

Bridging the Divide: Co-integration of Ethnobiology and Conservation Biology: Presented at the 26th Annual Conference of the Society for Ethnobiology, Seattle, WA 2003

The Use of Life History Traits in Evaluating Marine Reserves: Presented at the 14th Annual Society for Conservation Biology Meeting, Missoula, MT 2000

Invited Seminars:

2009

Yale University, New Haven CT
University of South Pacific, Suva Fiji

2008

University of South Pacific, Suva Fiji
Fijian Ministry of Fisheries, Suva Fiji
Field Museum of Natural History, Chicago IL
University at Albany, Albany NY

2007

American Museum of Natural History, NY NY
Marine Biological Laboratory, Woods Hole MA

Professional Societies:

Society for Conservation Biology

Board of Governors - Social Science Working Group (Chair: Student Affairs
Committee 2004-2008)

International Society for Reef Studies

Society for Ethnobiology

Society for the Study of Evolution

International Biogeography Society

Professional Services:

Organized a major meeting on the biogeography of Melanesia in Suva Fiji

Reviewed papers for *Ambio*, *Conservation Biology*, *Ecology and Society*, *Environmental Biology of Fishes*, *Heredity*, *Human Ecology*, *Marine Ecology Progress Series*, and *Molecular Ecology*.

Wrote summary document of ‘Connectivity Session’ of 11th ICRS to translate scientific ideas for conservation practitioners, available at

http://www.halichoeres.org/Site/Coral_Reef_Connectivity.html

References:

Dr. Mark Westneat:

Curator of Zoology,

Robert A. Pritzker Director, Biodiversity Synthesis Center,

Field Museum of Natural History

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Dr. Paul Barber:

Associate Professor,

Dept. of Ecology and Evolutionary Biology

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University of California Los Angeles

Los Angeles, CA 90095

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Dr. Les Kaufman:

Professor

Department of Biology

Boston University, 5 Cummingotn St, Boston MA 02215

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