

CURRICULUM VITAE

GEORGE CURT FIEDLER

Contact Information:

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Date of Birth: 27 November, 1963

Nationality: USA

Positions:

Editor, Micronesica, University of Guam, Mangilao, Guam, January 2014 to present.

Associate Professor in Biology, UOG Marine Lab Research Associate, University of Guam, Mangilao, Guam, Fall 2012 to present.

Associate Professor in Natural Sciences, University of Maryland University College, Asia Division, Tokyo, Japan, Fall 2003 to Summer 2012.

Adjunct Lecturer, Tamagawa University, Faculty of Agriculture, Scientific English Communication; Tokyo, Japan, Spring 2011 to Summer 2012.

Adjunct Lecturer, Sophia University, Faculty of Liberal Arts, Environmental Issues; Tokyo, Japan, Fall 2006 to Spring 2007.

Instructor, University of Puget Sound, Pacific Rim/Asia Study-Travel Program, (Marine Biology & Oceanography), Okinawa, Japan Session, Fall 2002.

Graduate Teaching Assistant, University of Hawai`i at Manoa. (Zoology, Biology, and Entomology Departments), 1988-1990 & 1992-2000.

Research Consultant, US Fish & Wildlife Service, Honolulu, Hawai`i 1996-1997.

Instructor, Kansai Gai Dai Hawai`i College. Chemistry Lecturer (6th term), Spring 1994.

Research Assistant, Hawai`i Institute of Marine Biology. Research consists of assessment of Kaneohe Bay fisheries stocks for a portion of the MHI/MRI program, 1990-1992.

Field Technician, Hawai`i Cooperative Fisheries Research Unit. Research includes biological surveys of stream and estuary habitats for environmental assessment, Spring/Summer 1990.

Education/Training:

Postdoctoral Research Fellow, Japan Society for the Promotion of Science, Tropical Biosphere Research Center, University of the Ryukyus, Okinawa, Japan, Spring 2001 – Spring 2003. [Dr. Kazuhiko Sakai]

PhD Zoology, Zoology Department, University of Hawai`i at Manoa. Dissertation title: Reproductive Biology and Sex Determination of Two Caridean Shrimp Genera: *Hymenocera* and *Lysmata*, December, 2000. [Drs. Ernst Reese, Christopher Brown, S. Randy Haley]

M.S. Zoology, University of Hawai`i at Manoa, Zoology Department. Thesis Title: Larval Stages of the Harlequin Shrimp, *Hymenocera picta*. May, 1994. [Drs. Ernst Reese, George Losey, Julie Bailey-Brock].

B.S. in Biology (Honors) with a minor in Psychology from the Case Institute of Technology, Case Western Reserve University, August, 1986.

Awards & Honors:

- *Research Associate*, University of Guam Marine Laboratory, Fall 2012 to present.
- *Visiting Researcher*, Tokyo Metropolitan University, October 2003 - 2012.
- Nominated in 2006 & 2007 for *Outstanding Faculty Award* at UMUC Asia
- *JSPS Research Fund*, JSPS Fellow Research Support Grant (2001, 2002)
- *Edmondson Scholarship Grant-in-aid*, University of Hawai'i, 1996.
- *Edmondson Award*, University of Hawai'i, 1993.
- *Honorable Mention*, Graduate Student Organization Symposium, University of Hawai'i, 1993.

Teaching Experience:

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|-------------------------------------|-----------------------------|
| -Introductory Biology (+ Lab) | -Environmental Issues |
| -Marine Biology (+ Lab)* | -Animal Behavior (+ Lab) |
| -Human Biology (+ Lab) | -General Entomology (+ Lab) |
| -Human Anatomy & Physiology (+ Lab) | -General Zoology (+ Lab) |
| -General Chemistry (+ Lab) | -Scientific English |
| -Ecology & Population Biology | -Introductory Oceanography |
| -Environmental Science | -Biometry |
| -Scientific Photography | |

Manuscript & Grant Proposal Reviews:

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| Pacific Science | Natural History Research |
| Marine Biology | Zootaxa |
| Journal of Ethology | Molecular Phylogenetics and Evolution |
| Journal of Crustacean Biology | National Science Foundation (via E. Reese) |

Relevant Publications:

- Onaga, H., Fiedler, G.C., Baeza, A. (2012). Protandric simultaneous hermaphroditism in *Parhippolyte misticia* (Clark, 1989) (Caridea: Hippolytidae): Implications for the evolution of mixed sexual systems in shrimp. *Journal of Crustacean Biology*, 32(3): 383-394.
- Fiedler, G.C., Rhyne, A., Segawa R., Aotsuka, T., and Schizas, N. (2010). The evolution of euhermaphroditism in caridean shrimps: a molecular perspective of sexual systems and systematics, *BMC Evolutionary Biology*, 10: 297.
- Okuno, J. and Fiedler, G.C. (2010). *Lysmata lipkei*, a new species of peppermint shrimp (Decapoda, Hippolytidae) from the warm temperate and subtropical waters of Japan In: C. H. J. M. Fransen, S. De Grave and P. K. L. Ng (eds.), *Studies on Malacostraca: Lipke Bijdeley Holthuis Memorial Volume, Crustaceana Monograph*, 14: 597-610.
- Hermansen, T.D., Arvedlund, M., & Fiedler, G.C. (2005). Calcium antagonists inhibit the discharge of cnidae in response to electrical stimulation in the giant tropical sea anemone *Heteractis crispa* Ehrenberger (Anthozoa), *Marine and Freshwater Behaviour and Physiology*, 38: 269-274.
- Fiedler, G.C. (2002). The Influence of social environment on Sex Determination in Harlequin Shrimp (*Hymenocera picta*: Decapoda, Gnathophyllidae), *Journal of Crustacean Biology*, 22: 750-761.
- Karplus, I., Fiedler, G.C., and Ramcharan, P. (1998). The intraspecific fighting behaviour of the Hawai'ian boxer crab, *Lybia edmondsoni* - Fighting with Dangerous Weapons?, *Symbiosis*, 24: 287-302.
- Fiedler, G.C. (1998). Functional, simultaneous hermaphroditism in female-phase *Lysmata amboinensis*, *Pacific Science*, 52: 161-169.
- Kalaria, R.N., Fiedler, C. and Hunsaker, J.C. (1993). Synaptic Neurochemistry of Human Striatum During Development: Changes in Sudden Infant Death, *Journal of Neurochemistry* 60: 2098-2102.
- Arora, P.K., Riachi, N.J., Fiedler, G.C., Malvinder, M.P. Abdallah, F., Harik, S.I. & Sayre, L.M. (1990). Structure-neurotoxicity trends of analogues of 1-Methyl-4-Phenylpyridinium (MPP+), the cytotoxic metabolite of the dopaminergic neurotoxin MPTP, *Life Sciences* 46:379-390.

Presentations, Posters, Abstracts:

- Fiedler, G.C., Rhyne, A., and Schizas, N. (2009). Mitochondrial and nuclear ribosomal phylogeny of the genus *Lysmata* Risso and other selected hippolytid shrimp genera: the evolution of unique sexual patterns in the Hippolytidae, Presentation for the 2009 Crustacean Society Summer Meeting, Tokyo, Japan.
- Schizas, N., Rhyne, A., and Fiedler, G.C. (2007). Multigene phylogeny of the caridean shrimp genus *Lysmata*, Presentation for the 2007 Benthic Ecology Meeting, Atlanta, Georgia.
- Schizas, N., Rhyne, A., and Fiedler, G.C. (2007). Multidata phylogeny of the Western Atlantic *Lysmata*. Presentation for the 2007 SICB Meeting, Phoenix, Arizona.
- Fiedler, G.C. (2005). The Evolution of Simultaneous Hermaphroditism in the Hippolytidae, Presentation for the 2005 Japan Carcinological Society meeting, Nara, Japan.
- Onaga, H. and Fiedler, G.C. (2004). Protandric Simultaneous Hermaphroditism in *Parhippolyte mistica* (Clark, 1989), Poster for the 2004 Japan Carcinological Society meeting, Tokyo, Japan.
- Fiedler, G.C. and Shinjo, K. (2003). Protandric Hermaphroditism in the Semi-terrestrial Shrimp, *Merguia oligodon* (De Man, 1888), Presentation for the 2003 Japan Carcinological Society meeting, Okinawa, Japan.
- Fiedler, G.C. (2001). Sperm transfer in a simultaneous hermaphrodite shrimp, *Lysmata amboinensis*, Presentation for the 2001 Japan Carcinological Society meeting, Tokyo, Japan.
- Fiedler, G.C. (2001). Hermaphrodites & parasites: A sordid tale of shrimp sex and isopod manipulation, Presentation for the Fifth International Crustacean Congress, Melbourne, Australia.
- Fiedler, G.C. (1996). Simultaneous, functional hermaphroditism in Hawai`ian *Lysmata amboinensis*, Presentation for the 21st Annual Albert L. Tester Memorial Symposium, Department of Zoology, University of Hawai`i.
- Fiedler, G.C. (1995). Simultaneous, functional hermaphroditism in Hawai`ian *Lysmata amboinensis*, Presentation for the XXIV International Ethological Conference, Honolulu, Hawai`i.
- Fiedler, G.C. (1993). Early life history and sex determination in the harlequin shrimp, *Hymenocera picta*, American Zoologist 33:104, Presentation and abstract for 1993 Annual meeting of ASZ.
- Fiedler, G.C., Aeby, G.S., and Clarke, T.A. (1992). Use of small midwater objects to monitor pelagic juvenile stages of tropical carangid fishes, Presentation for the 77th Annual Ecological Society of America Meeting, Honolulu, Hawai`i.
- Fiedler, G.C. (1992). Pair bond development in *Hymenocera picta*, Presentation for the 17th Annual Albert L. Tester Memorial Symposium, Department of Zoology, University of Hawai`i.
- Fiedler, G.C. (1989). Observations on the social behavior of a small population of the butterflyfish *Chaetodon ornatissimus* in Kaneohe Bay, Hawai`i, Presentation for the 14th Annual Albert L. Tester Memorial Symposium, Department of Zoology, University of Hawai`i.

Specialized Skills:

- SCUBA Certification, Advanced Open Water.
- Small boat operation & piloting skills.
- Experience in Windows & Macintosh computer platforms, & various data analysis packages.
- Spanish, French, and Japanese language experience.

Community Service:

- Nature Guide and Consultant, Japanese School of Guam, Mangilao, Guam, 2013-present.
- Fish Bowl Quiz Show Moderator, Guam, 2013 & 2014.
- Guam Island Wide Science Fair Judge, 2013.
- Volunteer for Hosen Kindergarten special events, Sagamihara, Japan, 2010-2012.
- Organizer of weekly amateur ultimate frisbee game, Futakotamagawa, Japan, 2004-2005.
- Volunteer guide for community tours of the Hawai'i Institute of Marine Biology, 1992-1999.
- Volunteer judge and tournament organizer for youth card games, Honolulu, Hawai'i, 1997-1998.
- Volunteer editor for newsletter of community computer users group, Honolulu, Hawai'i, 1990-1992.

Professional References:

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4. Dr. Ernst S. Reese, Professor Emeritus in Zoology
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