

HEATHER D. BRACKEN-GRISSOM

Curriculum Vitae

Work Address: Florida International University-Biscayne Bay Campus
Department of Biological Sciences
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PRIMARY RESEARCH INTERESTS:

Evolution, phylogenetics, ecology, taxonomy, systematics, biogeography and conservation biology of marine invertebrates, especially decapod crustaceans. Visual systems and bioluminescence. Cryptic diversity of species complexes in the marine environment.

EDUCATION & PROFESSIONAL POSITIONS:

Assistant Professor of Biology

Florida International University-Biscayne Bay Campus
August 2012-present

Postdoctoral Fellow

Assembling the Decapod Tree of Life
Curator of Decapod Crustaceans: Monte L. Bean Museum
Fall 2008-August 2012
Advisor: Dr. Keith A. Crandall
Brigham Young University

Ph.D. Environmental and Evolutionary Biology

Caridean phylogenetics and systematics
Fall 2003-Fall 2008
Advisor: Dr. Darryl L. Felder
University of Louisiana at Lafayette

B.S. Aquatic Science

Fall 1997-Spring 2002
University of California-Santa Barbara
Minor: Anthropology

Education Abroad Program

June 2000-December 2000

University of Queensland, Brisbane, Australia

Concentration: Marine Biology, Terrestrial Ecology

RESEARCH AND WORK EXPERIENCE:

Postdoctoral Fellow, Fall 2008-August 2012. Project 1: Assembling the Tree of Life: Decapoda: NSF Grant EF-0531762. Primary responsibilities include collecting/analyzing molecular and morphological data for decapod crustaceans. Project 2: Next-generation techniques (454 platform) applied to phylogenetics and population genetics. Project 3: Transcriptomics of invertebrate visual systems.

Taxonomic Consultant: Summer 2011. Ecological Associates, Inc. Identification of decapod crustaceans with an emphasis on caridean shrimp. Jensen Beach, Florida.

Graduate Research Assistant. Spring 2006-Summer 2008. Project: Assembling the Tree of Life: Decapoda. NSF Grant EF-0531603. Primary responsibilities included curatorial duties and analyzing morphological and molecular data for caridean and penaeoid shrimp. University of Louisiana at Lafayette, Lafayette, Louisiana (Zoological Collection).

Graduate Research Assistant. Summer 2004-Fall 2005. Project: A survey of the Deep Bank Macroalgae and Macrocrustaceans in the Gulf of Mexico. NSF Grant DEB 0315995. Primary responsibilities included curatorial duties and analyzing morphological and molecular data for a variety of deep bank marine invertebrates. University of Louisiana at Lafayette, Lafayette, Louisiana.

National Center for Ecological Analysis and Synthesis (NCEAS) Internship. Spring/Summer 2002. Primary responsibilities included webpage design and developing a 5th grade scientific outreach program (Kids Do Ecology). Santa Barbara, California.

Darling Marine Center Internship. June 2002-October 2002. Project: Settlement patterns of the American Lobster, *Homarus americanus*, off the coast of Maine. Advisor: Dr. Robert Steneck. Primary responsibilities included collecting and analyzing morphometric and settlement data for post-larval lobsters and other decapods. SCUBA required. Darling Marine Center, University of Maine, Walpole, Maine.

Research for Undergraduates Internship, NSF. August 2001-November 2001. Project: Seagrass Herbivory: The effects of predation risk and nutritional content in the Upper Florida Keys. Advisor: Dr. Ken Heck. Primary responsibilities included experimental design, laying underwater transects and measuring

carbon:nitrogen ratios of various seagrass species. SCUBA required. Dauphin Island Sea Lab, University of Southern Alabama, Dauphin Island, Alabama.

Research for Undergraduates Internship, NSF. June 2001-August 2001. Project: A survey of meiofauna in Central-Eastern Florida. Advisor: Dr. Michael Greenberg. Primary responsibilities included collection and identification of various invertebrates. The Whitney Laboratory, University of Florida, Marineland, Florida.

Student Laboratory Technician. 1999. Primary responsibilities included counting, measuring and identifying invertebrates from the Channel Islands. Advisors: Dr. Sally Holbrook and Dr. Russ Schmitt. University of California-Santa Barbara, Santa Barbara, California.

PEER REVIEWED PUBLICATIONS (* = mentored student):

Bracken-Grissom, H.D., S. Ahyong, R. Wilkinson, Z. Yang, J. Brienholt, F. Palero, T-Y. Chan, M. Bendall*, R. Feldmann, C. Schweitzer, K.H. Chu, D.L. Felder, R. Robles, D. Kim*, M. Tsang, J. Martin, and K.A. Crandall. **Submitted.** Emergence of the Lobsters: Phylogenetic Relationships, Morphological Evolution and Divergence Time Comparisons of a Fossil Rich Group (Achelata, Astacidea, Glypheidea, Polychelida). *Systematic Biology*.

Bracken-Grissom, H.D., Felder, D.L., Volmer, N., Martin, J. and K.A. Crandall. **2012.** Phylogenetics Links Monster Larva to Deep-Sea Shrimp. *Ecology and Evolution, In Press*.

Bracken-Grissom, H.D., Yang, C.H.^, D. Kim*, K.A. Crandall and T-Y. Chan. **2012.** Phylogenetic Relationships, Character Evolution, and Taxonomic Implications within the Slipper Lobsters (Crustacea: Decapoda: Scyllaridae). *Molecular Phylogenetics and Evolution*. 62, 237-250. ^ Co-first author.

Bybee, S.M., **H.D. Bracken-Grissom,** B. Haynes*, R. Hermansen*, R. Byers, M. Clement, J. Udall and K.A. Crandall. **2011.** A scalable next-gen approach to multilocus, multitaxa phylogenetics: An example of directed sequencing using Pancrustacea. *Genome Biology and Evolution*. 3, 1312–1323.

Bracken-Grissom, H.D., T. Enders*, C. Jara, and K. Crandall. **2011.** Molecular diversity of two freshwater anomuran crab species in Southern Chile (Decapoda: Anomura: Aeglidae) compared to associated morphometric differences. In: C. HELD, C. SCHUBART, S. KOENEMANN (eds.). *Phylogeography and population genetics in Crustacea (Crustacean Issues 19)*, Taylor and Francis/CRC Press, Boca Raton. 305-322.

Bybee, S.M., **H.D. Bracken-Grissom**, R. Hermansen*, D.L. Felder and K.A. Crandall. **2011**. Directed next generation sequencing for phylogenetics: An example using Decapoda. *Zoologischer Anzeiger*. 250, 497-506.

Bracken, H.D., S. De Grave, A. Toon, D.L. Felder, and K.A. Crandall. **2010**. The Phylogenetic Position, Taxonomic Status, and Divergence Time of the Procarididea (Crustacea: Decapoda). Felgenhauer & Abele, 1983. *Zoologica Scripta* 39 (2) 198-212.

Felder, D. L., P. C. Dworschak, R. Robles, **H. D. Bracken**, A. M. Windsor, J. M. Felder, and R. Lemaitre. **2009**. Obvious Invaders and Overlooked Infauna: Unexpected Constituents and New Discoveries of the Decapod Crustacean Assemblage at Twin Cays, Belize. *Smithsonian Contributions to Marine Sciences* 38, 181-188.

Bracken, H.D., A. Toon, D. Felder, J. Martin, M. Finley, J. Rasmussen*, F. Palero, and K.A. Crandall. **2009**. The Decapod Tree of Life: Compiling the data and moving toward a consensus of decapod evolution. *Arthropod Phylogenetics and Systematics* 67 (1) 99-116.

Bracken, H.D., S. De Grave and D.L. Felder. **2009**. Phylogeny of the infraorder Caridea based on mitochondrial and nuclear genes (Crustacea: Decapoda). In: J. MARTIN, K.A. CRANDALL, D.L. FELDER (eds.). *Decapod Crustacean Phylogenetics (Crustacean Issues)*, Taylor and Francis/CRC Press, Boca Raton. Pp. 281-305.

PUBLICATIONS IN ADVANCED PREPARATION (all in final stages for submission)

Bracken-Grissom, H.D., Ettinger, M.*, S. Ahyong, R. Feldmann, C. Schweitzer, D.L. Felder, and K.A. Crandall. Perfect Pets and Delicious Delicacies: Origins and diversification rates of key morphological characters during the evolution of the Anomura (Decapoda) using molecular and morphological data. *Cladistics*.

Bracken-Grissom, H.D. and D.L. Felder. Taxonomic revisions of the American snapping shrimp allied to *Alpheus floridanus* (Crustacea: Decapoda: Alpheidae). *Zootaxa*.

Bracken-Grissom, H.D., R. Robles and D.L. Felder. *In prep.* Molecular phylogenetics of snapping shrimp allied to *Alpheus floridanus* (Crustacea: Decapoda: Alpheidae). *Zootaxa*.

GRANTS AWARDED:

2011 **The Gulf of Mexico Research Initiative, RFP-I, Theme 3.** The Effects of the Macondo Oil Spill on Coastal Ecosystems. PI: Keith Crandall, Co-PI: Heather Bracken-Grissom. 9/01/2011 – 8/31/2014. \$158,334.00

- 2008** **Student Travel Grant, Charlotte Mangum Student Support Program.** Society for Integrative and Comparative Biology, Annual meeting. San Antonio, Texas. \$400.00
- 2007** **Research Travel Grant, Student Government Association.** University of Louisiana at Lafayette, Lafayette, Louisiana. \$500.00
- 2006-2007** **Research Travel Grant, Graduate Student Organization.** University of Louisiana at Lafayette, Lafayette, Louisiana. \$1300.00
- 2005-2007** **Research Funds Grant, Graduate Student Organization.** University of Louisiana at Lafayette, Lafayette, Louisiana. \$900.00
- 2004-2007** **Rockefeller State Wildlife Grant,** Louisiana Office of Student Financial Assistance. \$4000.00

GRANTS PENDING:

- 2012** **National Science Foundation (Dimensions): Collaborative Research:** Colonization, adaptation and diversification of anchialine fauna. PI: Heather Bracken-Grissom, co-PI: Keith Crandall. Submitted. \$1,200,000
- 2012** **National Science Foundation (AToL): Collaborative Research:** Novel and Integrative Approaches to Articulate the Pancrustacean Tree of Life: Origin(s) and Innovation(s). PI: Keith Crandall, Co-PI: Heather Bracken-Grissom

HONORS & AWARDS:

- 2011-2013** **FIRST IV (Faculty institutes for reforming science teaching) Postdoctoral Scholar.** NSF competitive fellowship awarded to individuals looking to excel in inquiry-based teaching.
- 2007** **Peoples Choice Award, Best Student Presentation.** Graduate Student Symposium. University of Louisiana at Lafayette, Lafayette, Louisiana.
- 2002** **Darling Marine Center Internship.** Darling Marine Center, The University of Maine, Walpole Maine.
- 2001** **National Science Foundation,** Research Experience for Undergraduates. Dauphin Island Sea Lab, University of Southern Alabama, Dauphin Island, Alabama.
- 2001** **National Science Foundation,** Research Experience for Undergraduates. The Whitney Laboratory, University of Florida, Marineland, Florida.

2000-2001 **Dean's Honors List.** University of California Santa Barbara, Santa Barbara, California.

PROFESSIONAL WORKSHOPS:

- 2012** Next Generation Sequencing Course, National Evolutionary Synthesis Center (NESCENT). June 11-19th. Durham, North Carolina.
- 2011-2013** FIRST IV (Faculty Institutes for reforming science teaching) Postdoctoral Scholar NSF Workshop. May 16th-21st 2011, May 15th-19th 2012.
- 2011** Teaching for Understanding in Science: Designing learner-centered instruction. Diane Ebert-May. September 15th 2011. Brigham Young University.
- 2009** Woods Hole Molecular Evolution Workshop. Marine Biological Laboratory, Woods Hole, Massachusetts. July 26th-August 7th.
- 2009** Estimating Species Trees Workshop. Workshop at the University of Michigan, Jan 10-11, 2009. Estimating Species Trees: A Phylogenetic Paradigm for the 21st Century.

TEACHING EXPERIENCE:

- Fall 2011.** Principles of Biology 100. Instructor for biology non-majors (84 students). Brigham Young University, Utah.
- Fall 2010.** Principles of Biology 100. Guest lecturer for introductory biology class (270 students). Brigham Young University, Utah.
- Fall 2010.** Principles of Biology 100. Guest lecturer for biology honors and virtual biology lab (40 students). Brigham Young University, Utah.
- Spring 2008.** Anatomy and Physiology Lab. University of Louisiana at Lafayette, Lafayette, Louisiana.
- Fall 2007.** Statistical Ecology Teaching Assistant. University of Louisiana at Lafayette, Lafayette, Louisiana.
- Fall 2004.** Anatomy and Physiology Lab. University of Louisiana at Lafayette, Lafayette, Louisiana.
- Spring 2004.** Anatomy and Physiology Lab. University of Louisiana at Lafayette, Lafayette, Louisiana.

Fall 2003. General Biology Lab for Majors. University of Louisiana at Lafayette, Lafayette, Louisiana.

UNDERGRADUATE/GRADUATE MENTORING (* co-author on peer reviewed paper, ^ underrepresented minority):

^Andres Mallipudi: Aeglid systematics and biogeography. Fall 2012.

*^Maren Ettinger: Phylogenetic relationships among anomuran crabs. Fall 2009-Summer 2012.

Alan Colver: Transcriptomics of visual systems in Crustacea. Fall 2010-Fall 2011.

^Leticia Chetty: Deep branches on the Decapod Tree of Life. Fall 2010-Summer 2011.

John Wilde: Deep branches on the Decapod Tree of Life. Fall 2010-Summer 2011.

^Eden Jensen: Deep branches on the Decapod Tree of Life. Fall 2010-Summer 2011.

*^Dohyup Kim: Phylogenetic relationships among lobster-like decapods. Spring 2009-Summer 2011.

Brian Holt: Phylogenetic relationships among brachyuran crabs. Fall 2009-Summer 2010.

*Russ Hermansen: Directed next generation sequencing for phylogenetics. Spring 2009-Summer 2010.

*^Tiffany Enders: Morphometric and genetic variation between *Aegla* crabs: lake and river species. Fall 2009-Spring 2010.

*^Jennifer Rasmussen: Phylogenetic relationships among shrimp-like decapods. Fall 2008-Spring 2010.

*^Matthew Bendall: Discovery of novel genetic markers using next generation 454 sequencing techniques: Spring 2009.

INVITED PRESENTATIONS (* = mentored student):

Bracken-Grissom, H.D., R.M. Feldmann, C.E. Schweitzer, S.T. Ahyong, D.L. Felder, K.A. Crandall. 2012. A comprehensive and integrative approach to reconstruct the evolutionary history of the Anomura (Decapoda). Geological Society of America, Special Session: The Origins of Arthropod Diversity: Insights from the Living and the Dead. Charlotte, North Carolina. November 4th-7th.

Bracken-Grissom, H.D. 2012. Branches on the Decapod Tree of Life and the Evolution of Systems and Structures in the Dark. Florida International University. January 23rd.

Bracken-Grissom, H.D. 2012. Perfect Pets and Delicious Delicacies: Evolution of the Decapoda. Centre College. January 12th.

Bracken-Grissom, H.D. 2011. Branches on the Decapod Tree of Life and the Evolution of Systems and Structures in the Dark. Smithsonian National Museum of Natural History. April 1st.

Bracken-Grissom, H.D. 2011. Branches on the Decapod Tree of Life and the Evolution of Systems and Structures in the Dark. Brooklyn College. February 25th.

Bracken-Grissom, H.D., J. Rasmussen*, D.L. Felder, and K.A. Crandall. 2010. Molecular insights into the evolution of shrimp-like decapods: Origins, relationships, and phylogenetically significant traits. The Crustacean Society Summer Meeting. Qingdao, China. July 20th-25th. Printed abstract, international. Presenting author, invited oral speaker.

Felder, D.F., **H. D. Bracken-Grissom**, K. A. Crandall, J. A. Cuesta, S. De Grave, P. C. Dworschak, M. Ettinger*, M. Finley, D. Kim*, F. A. Mantelatto, J. W. Martin, E. Palacios Theil, G. C. B. Poore, J. Rasmussen*, R. Robles, C. D. Schubart, B. P. Thoma, A. Toon, D. Tshudy, and A. M. Windsor. 2010. Molecular phylogeny of decapod crustaceans: Branches on the Tree of Life and their evolutionary implications. The Crustacean Society Summer Meeting. Qingdao, China. July 20th-25th. Printed abstract, international. Invited plenary talk.

Crandall K.A, **H. Bracken**, A. Toon, D. Felder, J. Martin, M. Finley, and J. Rasmussen*. 2008. The Phylogenetic Diversity of Decapod Crustaceans. Advances in Crustacean Phylogenetics. Rostock, Germany. October 7th-11th 2008. Printed abstract, international. Invited oral presentation.

POSTERS AND PRESENTATIONS (* = mentored student):

Bracken-Grissom, H.D., Ah Yong, S., Feldmann, R., Schweitzer, C., Breinholt, J., Bendall, M., Palero, F., Felder, D.L., Robles, R., Martin, J. & Crandall, K.A. 2012. The Emergence of the Lobsters: Phylogenetic Relationships, Morphological Evolution and Divergence Times of a Fossil Rich Group (Decapoda: Achelata, Astacidea, Glypheidea, Polychelida). The Crustacean Society Summer Meeting, 10th Colloquium Crustacea Decapoda Mediterranea. Athens, Greece. June 3-7th. Printed abstract, international. Presenting author, oral.

- Palero, F., **Bracken-Grissom, H.**, Chan, T-Y and Crandall, K.A. 2012. The Emergence of the Achelata Lobsters. I Iberian Congress on Animal Systematics. Universidad Autónoma de Madrid (UAM). Jan 17th-19th. International, poster.
- Felder D.L., Thoma, B.P., Palacios-Theil, E., **Bracken-Grissom, H**, Crandall K.A. and Chistoserdov, A.Y. 2012. Assessment of deepwater horizon spill impacts on benthic decapod crustaceans, 60-200m. Ocean Sciences Meeting, Salt Lake City. Feb 20th-24th. Printed abstract, regional. Oral presentation.
- Ettinger, M.J.*, **H.D. Bracken-Grissom** and K.A. Crandall. 2010. Perfect Pets and Delicious Delicacies: Phylogenetic relationships among anomuran crabs (Decapoda). Evolution. Portland, Oregon. June 25th-29th. Regional, poster.
- Holt, B.*, **H.D. Bracken-Grissom** and K.A. Crandall. 2010. The Podotremata Predicament: Phylogenetic relationships among the primitive brachyuran crabs (Decapoda). Evolution. Portland, Oregon. June 25th-29th. Regional, poster.
- Bybee, S.M., R. Hermansen*, **H. Bracken-Grissom**, M. Porter, L. Blanco-Bercial, T.Oakley and R.Wetzer, A.C. Bucklin, M.F. Whiting, K.A. Crandall. 2010. Novel methods with the usual suspects provide interesting results: pancrustacean phylogeny. Evolution. Portland, Oregon. June 25th-29th. Printed abstract, regional. Oral presentation.
- Bracken, H.D.**, D.L. Felder, J.W. Martin, R. Robles, B. Thoma, A. Windsor, E. Palacios-Theil, M. Finley, J. Rasmussen*, and K.A. Crandall. 2009. A Tree of Life phylogeny for the Decapoda. The Crustacean Society Mid-Year Meeting. Tokyo, Japan. Sept. 20th-24th. Printed abstract, international. Presenting author, oral.
- Bracken, H.D.**, S. De Grave, A. Toon, D.L. Felder, and K.A. Crandall. 2009. The Phylogenetic Position, Divergence Time, and Systematic Status of the Procarididea (Decapoda: Crustacea). The Crustacean Society Mid-Year Meeting. Tokyo, Japan. Sept. 20th-24th. Printed abstract, international. Presenting author, oral.
- Bracken, H.D.**, D.L. Felder, and J. Goy. 2009. Phylogeny of the Infraorder Stenopodidea (Crustacea: Decapoda) based on morphological and molecular data The Crustacean Society Mid-Year Meeting. Tokyo, Japan. Sept. 20th-14th. Printed abstract, international. Oral presentation.
- Bracken, H.D.**, S. De Grave, A. Toon, D.L. Felder, and K.A. Crandall. 2009. The Phylogenetic Position, Divergence Time, and Systematic Status of the Procarididea (Decapoda: Crustacea). Evolution. Moscow, Idaho. June 12th-17th. Printed abstract, regional. Presenting author, oral.
- Rasmussen, J.*, **H. Bracken**, and K. Crandall. 2009. Phylogenetic Relationships among Shrimp-like Decapods. Evolution. Moscow, Idaho. June 12th-17th. Poster.

- Bracken, H.D.,** S. De Grave and D.L. Felder. 2008. Phylogeny of the infraorder Caridea based on mitochondrial and nuclear genes (Crustacea: Decapoda). Annual meeting for the Society for Integrative and Comparative Biology. San Antonio, Texas. January 2nd-6th 2008. Printed abstract, regional. Presenting author, oral.
- Bracken, H.D.,** R. Robles and D.L. Felder. 2007. Cryptic diversity of the genus *Alpheus* within the Gulf of Mexico and adjacent waters (Decapoda: Caridea: Alpheidae). 8th Annual Graduate Student Symposium. The University of Louisiana at Lafayette. November 16th. Printed abstract, regional. Presenting author, oral.
- Felder, D.L., P.C. Dworschak, R. Lemaitre, R. Robles, **H.D. Bracken,** A.M. Windsor and J. Felder. 2007. Obvious invaders and overlooked infauna: unexpected constituents of the decapod crustacean assemblage at Twin Cays, Belize. Smithsonian Institution Marine Science Symposium. Washington D.C. November 15th-16th. Printed abstract, regional. Poster presentation.
- Bracken, H.D.,** R. Robles and D.L. Felder. 2007. Cryptic diversity of the genus *Alpheus* within the Gulf of Mexico and adjacent waters (Decapoda: Caridea: Alpheidae). The Crustacean Society Mid-Year Meeting. Coquimbo, Chile. October 14th-17th. Printed abstract, international. Presenting author, oral.
- Bracken, H.D.,** R. Robles and D.L. Felder. 2006. Morphological and molecular variation in the snapping shrimp, *Alpheus floridanus*, from the Gulf of Mexico and adjacent waters (Decapoda: Caridea: Alpheidae). Dauphin Island Graduate Student Symposium, Dauphin Island, Alabama. February 3rd-5th. Printed abstract, regional. Presenting author, oral.
- Bracken, H.D.** 2005. Global biodiversity of caridean shrimp with an emphasis on snapping shrimp from the Gulf of Mexico. University of Louisiana at Lafayette, Lafayette, Louisiana. Departmental seminar, oral presentation.
- Bierwagen, B. and **H.D. Bracken.** 2002. Integrating student observations into ecological lessons. 87th Annual Meeting of the Ecological Society of America and the 14th Annual International Conference of the Society for Ecological Restoration. Tucson, Arizona. August 4th-9th. Printed abstract, regional. Poster presentation.

FIELD/MUSEUM EXPEDITIONS AND RESEARCH CRUISES:

- 2011** SANT GRANT Crayfish Expedition. Activities: collection of crayfish for morphological and molecular analyses. April 25th-29th.
- 2010** NSF-sponsored Deep Banks Survey to the Gulf of Mexico. R/V Pelican. Activities: Collection and survey of macro-invertebrates using dredges and box-cores. P.I.s.: Darryl Felder and Suzanne Fredericq. Dec 2nd-6th.

- 2009** Arkansas Crayfish Collection Trip. Wildlife and Fisheries. Activities: collection of crayfish for morphological and molecular analyses. May 14th-17th.
- 2007** Visited National Museum of Natural History Decapod Collection, Smithsonian Institute. Sponsor: Rafael Lemaitre. Activities: Examination of decapod collections and tissue extraction. June 18th-25th.
- 2007** NSF/Smithsonian sponsored field expedition to Carrie Bow Cay, Belize (CCRE Smithsonian Lab). Activities: Collection, examination, and survey of decapod crustaceans and nemerteans. SCUBA required. April 4th-19th.
- 2006** NSF-sponsored cruise to the northern Gulf of Mexico, included offshore waters Louisiana, Alabama and Florida. R/V Pelican. Activities: Collection and survey of macro-invertebrates using dredges and box-cores. P.I.s.: Darryl Felder and Suzanne Fredericq. June 28th-July 10th.
- 2005** Smithsonian Tropical Research Institute (STRI) Cruise along Pacific coast of Costa Rica. R/V Urraca. Activities: Collection and survey of macro-invertebrates using trawling and dredging methods. P.I.: Rachel Collin. July 14th-18th.
- 2005** NSF-sponsored cruise to the Campeche Banks, Mexico and northwestern Gulf of Mexico. R/V Pelican. Activities: Collection and survey of macro-invertebrates using dredges. P.I.s.: Darryl Felder and Suzanne Fredericq. June 3rd-24th.
- 2004** NSF-sponsored cruise to the northern Gulf of Mexico and Dry Tortugas, Florida. R/V Pelican. Activities: Collection and survey of macro-invertebrates using dredges and box-cores. P.I.s.: Darryl Felder and Suzanne Fredericq. May 29th-June 7th.
- 2000** Education Abroad Field Expedition to Heron Island Research Station, Great Barrier Reef. University of Queensland, Australia. Activities: Collection and identification of fauna and flora. Design and carry-out small scale research projects during a 2-week course.
- 2000** Education Abroad Field Expedition to Moreton Bay Research Station, North Stradbroke Island. University of Queensland, Australia. Activities: Collection and identification of fauna and flora.

REFEREE FOR:

Zoologischer Anzeiger

Molecular Phylogenetics and Evolution
Journal of Crustacean Biology
Zootaxa
Invertebrate Systematics
Phylogeography and population genetics in Crustacea (Crustacean Issues)
Phylonyms: a Companion to the PhyloCode
Journal of the Marine Biological Association of the United Kingdom
Journal of Zoological Systematics and Evolutionary Research

PROFESSIONAL AFFILIATIONS (Past and Present):

The Crustacean Society
The Society of Systematic Biologists
American Association for the Advancement of Science (AAAS)
Society for the Study of Evolution

PROFESSIONAL SKILLS:

SSI Open Water Certified SCUBA Diver: January 2000.
PADI Advanced SCUBA Diver: October 2000.
American Academy for Underwater Sciences (AAUS), Research Diver Certification:
University of California-Santa Barbara, 2001. Dauphin Island Sea Lab,
2001. Louisiana Universities Marine Consortium (LUMCON), 2007.

WEB PAGES:

Kids do Ecology (National Center for Ecological Analysis and Synthesis, NCEAS):
<http://kids.nceas.ucsb.edu/>

VOLUNTEER EXPERIENCE:

6th Grade Biology Laboratory. 2009-2010. American Leadership Academy (ALA).

Student Poster Session Judge. 2010. Brigham Young University. March 25th 2010.

Society for Integrative and Comparative Biology. 2008. Annual meeting for the Society for Integrative and Comparative Biology. San Antonio, Texas. Worked during the decapod symposium session. January 5th 2008.

Graduate Student Symposium Organizing Committee. 2006. Department of Environmental and Evolutionary Biology, University of Louisiana, Lafayette, Louisiana.

Assistant Soccer Coach. 2005-2006. Louisiana Youth Soccer Association.

San Francisco Zoo. 1993.

GRADUATE COURSEWORK:

Advanced Invertebrate Zoology, Molecular and Cellular Engineering, Population Genetics, Marine Ecology, Molecular Biology, Advanced Microscopy (SEM), Decapod Taxonomy, Molecular Evolution, Community Ecology, Evolution/Adaptations of the Arthropods, Statistical Ecology, Biochemical Adaptations to the Environment, Developmental Biology, Evolutionary Processes, Deep Sea Seminar

SKILLED IN FOLLOWING SOFTWARE SYSTEMS:

Microsoft Office 1997, 2000, XP; Adobe Photoshop; Adobe Illustrator; CorelDraw; MacClade; PAUP*; Clustal W; Clustal X; MUSCLE; MAFFT; BioEdit; Sequencher; FileMaker Pro 8.5; MEGA; FigTree; TreeView; Dreamweaver; Sigma Stat; Sigma Pro; Endnote; SAS, Multidivtime, R8s; RAxML, Phylip, Mr. Bayes, eBiox; ModelTest; TextWrangler; BEST; STEM: *BEAST; BEAST.