Curriculum vitae

CLIFTON BENJAMIN RUEHL

Birth date: 17 February 1977, Albany Georgia, U.S.A.
Department of Biological Sciences, Florida International University
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Education

Present: Ph. D. candidate
Department of Biological Sciences
Florida International University, Miami, FL
Advisor: Joel C. Trexler GPA: 3.6

May 2004: Master of Science
Department of Wildlife and Fisheries Sciences
Texas A&M University, College Station, TX
Advisor: Thomas J. DeWitt GPA: 3.8

May 2000: Bachelor of Science in Biology
Minor in History
Trinity University, San Antonio, TX
Cum. GPA: 3.1
Major GPA: 3.1

Publications

Ruehl, Clifton B., Shervette, V., DeWitt, T.J. "Replicated phenotypic divergence in two estuarine fishes: Shared and unique responses to known and unknown environmental gradients." *Biological Journal of the Linnaean Society*-In prep

Ruehl, Clifton B., Dorn, N.J., Gaiser, E.E., Trexler J.C. "Cage design and seasonality in wetland field experiments that measure biotic interactions." *Hydrobiologia*-In Review

Parker, Aaron D., Uzarski, D. G., Sepulveda-Villet, O. J., Stepien, C. A., **Ruehl, C. B.**, Burton, T. M. (2009) "The interplay of morphology, habitat, resource use, and genetic relationships in young yellow perch" *Transactions of the American Fisheries Society*-In Press

Ruehl, Clifton B., DeWitt, T.J. (2007) "Trophic plasticity and foraging performance in red drum *Sciaenops ocellatus* (Linnaeus)." *Journal of Experimental Marine Biology and Ecology*. 349: 284 - 294

Ruehl, Clifton B., DeWitt, T.J. (2005) "Trophic plasticity and fine-grained resource variation in populations of western mosquitofish, *Gambusia affinis*." *Evolutionary Ecology Research*. 7: 801 - 819

Expected Publications from Dissertation

Ruehl, Clifton B., Trexler, J. C. "A review of snail biomass and abundance among freshwater habitats" *Journal of the North American Benthological Society*-In prep

Ruehl, Clifton B. "Separating consumptive and non-consumptive predator effects in the presence of nutrient enrichment" *Ecological Monographs*-In prep

Ruehl, Clifton B., Trexler, J. C. "Separating nutrient and predator effects in human-modified habitats" *Oecologia* -In prep

Ruehl, Clifton B., Trexler, J. C. "Seasonality and the impact of predation on snail abundance in an oligotrophic freshwater wetland" *Oikos*-In prep

Professional Development

2006 - 2008: Characterization of freshwater wetlands of the Yucatan and Belize, Florida International University, Miami, FL
Worked with a four-member team to compare the Everglades to similar ecosystems throughout the Caribbean

2005 - 2008: R.A. Dept. of Biological Sciences, Florida International University, Miami, FL P.I. Joel C. Trexler
Coordinated six food web experiments along nutrient and hydroperiod gradients throughout the greater Everglades ecosystem

2003: Habitat associated morphology in estuarine fishes, Texas A&M University, College Station, TX
In conjunction with Texas Parks and Wildlife, we explored morphological variation in estuarine fishes at sites throughout the Corpus Christi bay complex

2001 - 2003: R.A. Dept. of Wildlife and Fisheries, Texas A&M University, College Station, TX P.I. Thomas J. DeWitt
Conducted experiments to explore trophic morphology and plasticity in western mosquitofish (*Gambusia affinis*) and red drum (*Sciaenops ocellatus*)

2001: Lab Technician, Baylor College of Medicine, Microarray Core Facility, Houston, TX, P.I. Jeffery Tollett
Amplified a mouse eye-specific gene library to use with microarray technology.

2000: Student Conservation Association 6 month volunteer internship, Seattle WA, P.I. Reg Reisenbichler
Worked with a six-member team to examine the fitness of hatchery and wild salmonids in Idaho and Washington

2000: Undergraduate research, Trinity University, P.I. David Ribble
Survey of bat populations in Government Canyon State Natural Area, Bexar County, TX

Grants and Contracts

2008: Everglades Foundation "An Integrative Approach to Understanding Top-down and Bottom-up Processes limiting Snail Populations in the Everglades" $17,000

2003: PADI Foundation "Resource Polymorphism in Estuarine Sciaenid Fishes" $1,500.00

Teaching Experience

2005 - 2007: Co-leader Philosophy of Biology (PoB) reading group

2004: General Biology lab instructor, BSC 1107 Fall

2004: Zoology lab instructor, ZOOL 107 Spring

2003: Zoology lab instructor, ZOOL 107 Fall

Awards, Honors, and Achievements

2008: Doctoral Evidence Acquisition Fellowship, Florida International University, $ 8000.00

2008: Florida Coastal Everglades Long Term Ecological Research (FCE-LTER) student research award for CNP analysis, $1,250.00

2007: Graduate Student Association Research Grant, Florida International University, $ 500.00

2007: Graduate Student Association Travel Grant, Florida International University, $500.00

2006: Judith Evans Parker Travel Fellowship, $900.00

2006: President: Biology Graduate Student Association, Florida International University, Miami, FL

2005: Biology Research Symposium Fairchild Tropical Gardens, Coral Gables, FL, USA Best Ph. D. presentation for: "Trophic specialization and performance in Red drum, *Sciaenops ocellatus*", $100.00

2004: Department of Wildlife and Fisheries Sciences Student Travel Award, $300.00

2004: Texas Academy of Sciences annual meeting travel award Schreiner University, Kerrville, TX USA, $100.00.

2004: Texas Academy of Sciences annual meeting at Schreiner University, Kerrville, TX USA, 1st place and a $300.00 award for presenting: "Can phenotypic plasticity affect the success of fish living among different habitat types?"

2004: Member of the 2004 Ecological Integration Symposium organizing committee, Texas A&M University, College Station, TX.

2003: Texas Academy of Sciences annual meeting at Stephen F. Austin State University, Nacogdoches, TX, USA, 3rd place and a $ 200.00 award for presenting: "Diet induced phenotypic plasticity in mosquitofish, *Gambusia affinis*"

2002-2004: Coastal Conservation Association fellowship $5,000.00/yr.

2001-2003: Sustainable Coastal Margins Program Graduate Assistantship $15,000/yr.

2000: Dean's List

1993: Eagle Scout

Invited Presentations

2004: Ruehl, Clifton B. and DeWitt TJ. "Trophic plasticity and fine-grained resource variation in the western mosquitofish, *Gambusia affinis*." Trinity University, San Antonio, TX, USA.

National Meeting Presentations

2008: Ruehl, Clifton B. "Separating consumptive and non-consumptive predator effects in the presence of nutrient enrichment" Ecological Society of America. Milwaukee, WI, USA.

2007: Ruehl, Clifton B., Dorn, N.J., Gaiser, E.E., Trexler, J.C. "Seasonality and Cage Design in Food Web Experiments" Ecological Society of America. San Jose, CA, USA.

2005: Ruehl, Clifton B., Shervette, V., DeWitt, TJ. "Scale of morphological variation in estuarine fish species" Ecological Society of America. Montreal, Quebec, CA.

2005: Ruehl, Clifton B., Shervette, V., DeWitt, TJ. "Scale of morphological variation in estuarine fish species" American Society of Ichthyologists and Herpetologists. University of South Florida, Tampa, FL, USA.

2004: Ruehl, Clifton B. and DeWitt TJ. "Trophic plasticity and fine-grained resource variation in the western mosquitofish, *Gambusia affinis*." Ecological Society of America. Portland, Oregon, USA.

2004: Ruehl, Clifton B. and DeWitt TJ. "Trophic specialization and performance in Red drum, *Sciaenops ocellatus*." American Society of Ichthyologists and Herpetologists. University of Oklahoma, Norman, OK, USA.

Other Presentations

2009: Ruehl, Clifton B. "Separating consumptive and non-consumptive predator effects in the presence of nutrient enrichment" Biology Research Symposium. Florida International University, Miami, FL, USA.

2007: Ruehl, Clifton B., Dorn, N.J., Trexler, J.C. "Experimental venue and spatial scale in food-web manipulations." Biology Research Symposium. Florida International University, Miami, FL, USA.

2005: Ruehl, Clifton B. and DeWitt TJ. "Trophic specialization and performance in Red drum, *Sciaenops ocellatus*." Biology Research Symposium. Fairchild Tropical Gardens, Coral Gables, FL, USA.

2004: Ruehl, Clifton B. and DeWitt, TJ. "Can phenotypic plasticity affect the success of fish living among different habitat types?" Texas Academy of Sciences. Schreiner University, Kerrville, TX, USA.

2004: Ruehl, Clifton B. and DeWitt, TJ. "Phenotypic plasticity and performance in Red drum, *Sciaenops ocellatus*." Texas A&M University Student Research Symposium. College Station, TX USA.

2004: Ruehl, Clifton B. and DeWitt, TJ. "Phenotypic plasticity and performance in Red drum, *Sciaenops ocellatus*." Texas Chapter of the American Fisheries Society. Texas A&M University, College Station, TX, USA.

2003: Ruehl, Clifton B. and DeWitt, TJ. "Diet induced phenotypic plasticity in mosquitofish, *Gambusia affinis*." Texas Academy of Sciences. Stephen F. Austin State University, Nacogdoches, TX USA.

2003: Ruehl, Clifton B. and DeWitt, TJ. "Diet induced phenotypic plasticity in mosquitofish, *Gambusia affinis*." Texas A&M University Student Research Symposium. College Station, TX USA.

2003: Ruehl, Clifton B. and DeWitt, TJ. "Diet induced phenotypic plasticity in mosquitofish, *Gambusia affinis*." Texas A&M University Departmental Seminar. College Station, TX USA.

2002: Langerhans, Brian, Clifton B. Ruehl "Studies of Diversification: Ecology and Evolution" Texas A&M chapter of the National Association of Environmental Professionals. College Station, TX USA.

2002: Ruehl, Clifton B. "History and Significance of Phenotypic Plasticity" Texas A&M University Student Research Symposium. College Station, TX USA.

Service as Reviewer

Biological Journal of the Linnean Society (2)
Ecological Indicators
Fishery Bulletin
Journal of Fish Biology
Marine and Freshwater Ecology
Oceologia (2)

Scientific Interests

My professional interest lies in the evolutionary ecology of fishes and invertebrates. I use field and lab experiments to ask questions about the influence of abiotic and biotic factors on the growth, morphology, and behavior of organisms and how these effects cascade to other trophic levels.

References

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