

SANDRA BIBIANA CORREA

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Department of Wildlife and Fisheries Sciences
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Research Interests

General interest in the study of ecology and conservation of tropical freshwater fishes and aquatic ecosystems. Specific interests in community ecology of Amazon fishes of floodplain habitats. Evolution of frugivorous fishes associated to seasonally flooded forest.

Education

- 2005 – present Ph. D. student. Department of Wildlife and Fisheries Sciences. Texas A&M University.
Major advisor: Dr. Kirk Winemiller.
- 2002 – 05 Master's of Science, University of Florida, Zoology Department.
Thesis title: Comparison of fish assemblages in flooded forest versus floating meadows habitats of an upper Amazon floodplain (Pacaya Samiria National Reserve, Peru)
Major advisor: Dr. James Albert (Florida Museum of Natural History)
- 1993 – 99 Bachelor studies in Biology (Major in Marine Biology), Biology Department, Universidad del Valle. Colombia. Average grade: 3.50/5.00 (B+).
Thesis title: Estudio ecológico preliminar de asociaciones de peces en el Lago Taraira, Amazonía Colombiana (Preliminary ecological study of fish assemblages in Taraira Lake, Colombian Amazon).

Research and Teaching Experience

- 2006 – present Graduate Teaching Assistant, Department of Wildlife and Fisheries Sciences, Texas A&M University, WFSC 311L: Ichthyology Laboratory (spring and fall 2006, fall 2007, fall 2008)
- 2008 Graduate Teaching Assistant, Department of Wildlife and Fisheries Sciences, Texas A&M University: Natural History of the Vertebrates (spring)
- 2005 Invited teacher to the Tropical Ecology and Conservation Course, Organization for Tropical Studies (OTS) 05 – 2. La Selva Biological Station, Costa Rica (January – February)
- 2002 – 2005. Graduate Teaching Assistant, Biological Science Department, University of Florida, BIO 2010L: Integrated Principals in Biology I, Laboratory (fall 2002 – summer 2005)
Teaching Assistant in the Ecology of Amazon Ecosystems Course, OTS 02-13. Iquitos & Pto. Maldonado, Peru. (May)
Assistant for the Graduate Education Division. OTS. Durham, North Carolina. (October 2001 – April 2002).
- 2001 Research Assistant in the project “Phenology of *Pentaclethra macroloba*”. Project of Dr. N. Bynum at La Selva Biological Station, Costa Rica. (June)
Teaching Assistant in the Ecology of Amazon Ecosystems Course, OTS 01-13. Iquitos, Peru. (May)
Research Assistant in the project “Long term studies of herbivory and pathogen damage to tropical trees: The Leguminosae”. Project of Drs. P. D. Coley and T.A. Kursar at the Smithsonian Tropical Research Institute, Barro Colorado Island. Panama. (July 2000 – March 2001).
- 2000 Teaching Assistant in the Ecology of Amazon Ecosystems Course, OTS 00-13. Iquitos, Peru. (May)

- 1999 Independent research on Taxonomic determination of three ichthyological collections, from the Lower Apaporis River. Instituto de Ciencias Naturales, Universidad Nacional de Colombia and Instituto Alexander Von Humboldt, Bogotá, Colombia. (August – October).
Consultant on Fish monitoring in the Rio Dagua, for the Pacific Pipeline Program. Ecopetrol and Dept. of Chemical and Biological Processes, Universidad del Valle. (February – March).
Consultant on Taxonomic determination of four species of fish important for farming. Rio Putumayo. Amazon Regional Corporation – Corpoamazonía. (February – March).

Publications

- Correa, S.B. 2008. Fish assemblage structure is consistent through an annual hydrological cycle in habitats of a floodplain-lake in the Colombian Amazon. *Neotropical Ichthyology* 6 (2): 257-266.
- Correa, S.B., Crampton W.G.R., Chapman L.J. & Albert J.S. 2008. A comparison of flooded forest and floating meadow fish assemblages in an upper Amazon floodplain. *Journal of Fish Biology* 72: 629–644.
- Correa, S.B., Winemiller K., López-Fernández H. & M Galetti. 2007. Evolutionary perspectives on seed consumption and dispersal by fishes. *BioScience* 57 (9): 748–756.
- Correa, S.B., Crampton W.G.R., and Albert J.S. 2006. Three New Species of the Neotropical Electric Fish *Rhabdolichops* (Gymnotiformes: Sternopygidae) from the Central Amazon basin, with a new diagnosis of the genus. *Copeia* 1: 27–42
- Correa S. 2003. Ichthyofauna of Lago Taraira, lower Rio Apaporis, Colombian Amazon. *Dahlia* 6: 59–68.
- Correa S. and Zorrilla X. 1996. Fijación de embriones de mangle al sustrato, en un manglar de borde ubicado en el puerto de Buenaventura, Costa Pacífica Colombiana. *Proceedings I National Meeting of Biology, Universidad Javeriana, Bogotá. Abstract.*

Work in progress

- Correa S.B., Daza F., Ambruster J., Betancurt, R. Shift in feeding ecology following introduction into a foreign habitat: a case study of a Neotropical frugivorous fish introduced into the East Sepik River, Papua New Guinea. To be submitted to *Conservation Biology*.
- DeWitt T. J., Papadopoulos A., Correa, S. B., Berryhill L. Native Variance and the Venn of Morphometrics—Shared and Unique Components of Phenotypic Variation. To be submitted to *Systematics Biology*.
- Correa, S.B., Cárdenas, D., Winemiller, K. Isotopic variability among plant tissues in Amazonian flooded forest trees. To be submitted to *Biotropica*.

Documents and Technical Reports

- McEachran, J.D., Prestige, H. & Correa S.B. 2006. *Ichthyology Laboratory Manual*. 3rd Edition. Department of Wildlife and Fisheries Sciences. Texas A&M University.
- McEachran, J.D., Prestige, H., Correa S.B., and Tobler, M. 2008. *Ichthyology Laboratory Manual*. 4th Edition. Department of Wildlife and Fisheries Sciences. Texas A&M University.

Awards

- 2008 Department of Wildlife and Fisheries Sciences, Texas A&M University, Outstanding Ph. D. Student Award, April 29, 2008.
- 2008 International Federation of University Women, Recognition Award of 1500 Swiss francs for research during 2008-2009.

Fellowships and Grants

- 2008 Wildlife Conservation Society, Research Fellowship to conduct dissertation research Jan 01 2009 to Jan 31 2010 (Department of Wildlife and Fisheries Sciences, Texas A&M University, GPEF Travel Grant to cover traveling expenses to the Joint Meeting of Ichthyologist and Herpetologists, Montreal, Canada, July 2008 (\$750).
Section of Ecology and Evolutionary Biology, Texas A&M University. Travel Grant to cover traveling expenses to the Joint Meeting of Ichthyologist and Herpetologists, Montreal, Canada, July 2008 (\$490)
- 2006 Section of Ecology and Evolutionary Biology, Texas A&M University. Travel Grant to cover traveling expenses to the Joint Meeting of Ichthyologist and Herpetologists, New Orleans, July 2006 (\$650).
- 2005 Graduate Merit/The Association of Former Students Fellowship, Texas A&M University, fellowship to pursue graduate studies (\$31,000)
- 2003 Idea Wild, donation of equipment (\$600).
British Ecological Society, Scholarship for the field course TBA 03: Tropical Biology (\$360)
Zoology Department and Office of Research and Graduate Programs, UF, fellowship for the field course TBA 03: Tropical Biology, Uganda (\$800).
- 2002 Grinter Fellowship, UF, fellowship to pursue graduate studies (\$9,000)
- 2001 Andrew Melon Foundation & Smithsonian Tropical Research Institute (\$500)
Organization for Tropical Studies – OTS, fellowship for the field course OTS 01-18: Botanical Systematics, Costa Rica (\$3,100).
Andrew Melon Foundation & Smithsonian Tropical Research Institute, Latin American Internship Program (\$3,000).
- 1999 WWF-Women in Conservation Scholarship, fellowship for the field course OTS 99 – 13: Ecology of Amazon Ecosystems, Peru (\$1,800)
Organization for Tropical Studies – OTS, fellowship for the field course OTS 99 – 13: Ecology of Amazon Ecosystems, Peru (\$2,400)
Andrew Melon Foundation, Short Term Fellowship, project: “Ichthyofauna of Lower Apaporis River. Identification of fishes from three taxonomic collections” (\$350)
- 1997 – 98 The Tropenbos Foundation, grant to pursue undergraduate thesis research (\$1,500)

Professional Presentations

- 1999 V Colombian Meeting of Ichthyology. Universidad Nacional de Colombia and Asociación Colombiana de Ictiólogos. Leticia, Amazonas, Colombia, May, 1999. S. B. Correa: Estudio ecológico preliminar sobre la estructura de una asociación de peces en el Lago Taraira, Amazonía colombiana. Oral presentation.
- 2006 Joint Meeting of Ichthyologist and Herpetologists, New Orleans, Louisiana, July 2006. S. B. Correa, W. Crampton, L. Chapman, and J. Albert: A comparison of flooded forest and floating meadow fish assemblages in an upper Amazon floodplain. Oral presentation (by SBC).
- 2008 Joint Meeting of Ichthyologist and Herpetologists, Montreal, Quebec, Canada, July 2008. S. B. Correa, J. W. Ambruster, R. Betancurt: Feeding Ecology of an Introduced Generalist Frugivorous Fish: the Fate of Pacu in the Sepik River, Papua New Guinea. Poster presentation (by SBC).

Service to Department/University, Professional Associations and Journals

- 2007 – 08 Organization Committee for the 9th Annual Ecological Integration Symposium. “Metacommunities; Connectivity, Dispersal and Invasion”. Department of Wildlife and Fisheries Sciences. Texas A&M University
- 2005 – present Reviewed manuscripts for *Copeia*, *Ichthyological Exploration of Freshwaters*, *Neotropical Ichthyology*, *Journal of Fish Biology*, and *Actualidades Biológicas* (Colombia).
- 2002 – 05 Zoology Graduate Students Association – ZGSA, University of Florida; I participated in the

incoming graduate students welcome committee, Fall 2004; and coordinated a book donation to Colombia, Spring 2004; and another book donation to Trinidad and Panama, Summer 2005.

Professional Affiliations

International Federation of University Women – IFUW

American Association of Ichthyologists and Herpetologists – ASIH (2003 – Present)

Brazilian Society of Ichthyology – SBI (2007 – Present)

Association of Graduate Wildlife and Fisheries Scientists – AGWFS, Texas A&M University, (2005 – Present)

Zoology Graduate Students Association – ZGSA, University of Florida, (2002 – 2005)

Colombian Association of Ichthyologists – ACICTIOS (2001 – 2003)

Specific Courses

2004 Frugivory and Seed dispersal. Universidade Estadual de Sao Paulo – UNESP. Brasil

2003 Tropical Biology. Tropical Biology Association-TBA. Makerere University Field Station (Kibale Forest National Park)

2001 Botanical Systematics. Organization for Tropical Studies-OTS. Costa Rica.

1999 Ecology of Amazon Ecosystems. Organization for Tropical Studies-OTS. Peru.

1999 Ecological and Economical Demarcation for GPS. Instituto de Investigaciones de la Amazonía Peruana – IIAP. Peru

1993 Scuba Diver. Universidad del Valle, Dive Club. Colombia.