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National Marine Fisheries Service
Southeast Fishery Science Center
Division of Protected Resources and Biodiversity
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Present Position:

Feb. 2004-
Present Research Ecologist, USDOC NOAA, National Marine Fisheries Service, Southeast Fishery Science Center, Division of Protected Resources and Biodiversity. Evaluating sea turtle and other protected species bycatch with statistical and population models.

Education:

May 2003 Ph.D.; Department of Biology, University of Miami
Title: The American crocodile (*Crocodylus acutus*) in Florida: Conservation issues and population modeling.

July 1992 M.S.; Biological Sciences, University of Illinois at Chicago
Title: Predatory effects, life cycle and husbandry of the staphylinid beetle (*Quedius erythrogaster*) in the cave rat latrine

August 1987 B.S.; Biological Sciences, University of Illinois at Chicago

Experience:

Sept 2002-
Feb 2004 Post-Doctoral Research Associate;
School of Computational Science and Information Technology, Florida State University. Modeling the evolution of life history traits in least killifish (*Heterandria formosa*).

Sept 2001 –
Aug 2002 Post-Doctoral Research Associate; Department of Biological Sciences, Florida State University. Developing landscape level models for the conservation of Red-cockaded woodpeckers and the longleaf pine ecosystem.

Experience (continued):

- July 1995 - August 2001 Research Assistant, Department of Biology, University of Miami
Developing a herpetological assemblage model in the Everglades and a spatially explicit individual based model of the American crocodile in S. Florida.
- Dec. 1998 - August 2001 Mentor for the University of Miami Bridges program
Directing undergraduate research on *Anolis* lizards
- Summer 1999 - Summer 2000 Instructor, Department of Biology, University of Miami
NIH Young Scholars Program
- Sept. 1996 - Dec. 1996 Teaching Assistant, Department of Biology, University of Miami
- Aug. 1993 - July 1995 Lecturer, Department of Biological Sciences,
University of Illinois at Chicago
- June 1992 - July 1993 Research Associate, Department of Entomology,
Louisiana State University Agricultural Center
- Sept. 1991 - May 1992 Teaching Assistant, Department of Biological
University of Illinois at Chicago
- March 1990 - March 1991 Research Assistant, Department of Biological Sciences,
University of Illinois at Chicago
- March 1988 - March 1990 Teaching Assistant, Department of Biological Sciences,
University of Illinois at Chicago
- Sept. 1986 - June 1992 Volunteer, Cranberry Slough Nature Preserve, Cook County IL
Site restoration, prescribed burns, brush cutting of exotics,
and re-seeding of native prairie species.
- 1991 summer Field Assistant, Rocky Mountain Biological Laboratory
Censusing of amphibian species, plankton sampling.
- 1988 summer Volunteer, Lockport Nature Preserve, Will County IL
Censusing of turtle species, radio-tracking, mark and recapture, habitat identification of an endangered species.

Publications Peer reviewed:

Miller, T. E., J. H. Burns, P. Munguia, E. L. Walters, J. M. Kneitel, P. M. Richards, N. Mouquet, and H. L. Buckley. 2005. A critical review of twenty years' use of the resource-ratio theory. *American Naturalist* 165(4):429-438.

Richards, P. M., W. M. Mooij, and D. L. DeAngelis. 2004. Evaluating the effect of salinity on a simulated American Crocodile (*Crocodylus acutus*) population with applications to conservation and Everglades restoration. *Ecological Modelling* 180:371-394.

James, F.C., P.M. Richards, C.A. Hess, K.E. McCluney, E.L. Walters and M.S.Schrader. 2004. Sustainable forestry for the red-cockaded woodpecker's ecosystem. Pp 60-69 in R. Costa and S.J. Daniels (editors). *Red-cockaded Woodpecker: Road to Recovery*. Hancock House Publishers, Blain, Washington.

Richards, P. M. 2003. Evaluating the relative effects of life history stages in the conservation of the American Crocodile (*Crocodylus acutus*) in Florida. *Florida Scientist* 66(4).

Richards, P.M. and J. Wasilewski. 2003. *Crocodylus acutus* cannibalism. *Herpetological Review* 34(4).

Diffendorfer, J. E, P. M. Richards, G. H. Dalrymple, and D. L. DeAngelis. 2001. Applying Linear Programming to estimate fluxes in ecosystems or food webs; an example from the herpetological assemblage of the freshwater Everglades. *Ecological Modelling*. 144:99-120.

Nicholson, K. E., A. Paterson and P. M. Richards. 1999. Cannibalism in the brown Anole (*Anolis sagrei*). *Herpetological Review* 31(3):173-174.

Publications, Non-peer reviewed:

Garrison, L. P. and P. M. Richards. 2004. Estimated bycatch of marine mammals and turtles in the U.S. Atlantic pelagic longline fleet during 2003. NOAA Technical memorandum NMFS-SEFSC-527: 57 p.

Richards, P. M. and J. A. Wasilewski. 2000. Successful Nesting and Status of the American Crocodile *Crocodylus acutus* at the Turkey Point Power Plant in South Florida. pp. 393-400. *In* *Crocodyles: Proceedings of the Working Meetings of the Crocodile Specialist Group. 15th Working Meeting, Varadero, Cuba. 2000. 1 volume, 543 p.* IUCN—The World Conservation Union, Gland, Switzerland.

Nicholson, K. E. and P. M. Richards. 1999. *Natural History and Ecology of Anolis*

equestris. Anolis Newsletter V:33-35.

Publications, Non-peer reviewed (continued):

Richards, P. M. 1990. The Effects of Predation on Invertebrate Community Structure in the Cave Rat Fecal Latrine. Cave Research Foundation Annual Report. pp. 58-61.

Richards, P. M. 1989. Predation in the Cave Rat Latrine. Cave Research Foundation Annual Report. pp. 45-47.

Presentations:

April 2003 Talk: Greater Everglades Ecosystem Restoration Meeting, Florida Bay Program, Palm Harbor, FL.
Title: "Evaluating the effect of salinity on a simulated American crocodile (*Crocodylus acutus*) population."

April 2003 Invited Speaker: Frances C. James Retirement Symposium, Florida State University, Tallahassee, FL.
Title: "Modeling longleaf pine forests."

May 2002 Talk: Greater Everglades Ecosystem Restoration Workshop
Nova Southeastern University, Davie, FL.
Title: "Population modeling of the American crocodile for conservation and management in S. Florida."

Feb 2001 Talk: Department of Biological Sciences, Florida State University
Title: "Population modeling of the American crocodile, *Crocodylus acutus*, for conservation and management in South Florida."

Dec. 2000 Talk: Greater Everglades Ecosystem Restoration Science Conference, Fort Myers, FL.
Title: "Population modeling of the American crocodile for conservation and management in S. Florida."

July 2000 Talk: ASIH Joint meetings, La Paz, Mexico.
Title: "Population modeling of the American crocodile for conservation and management in S. Florida."

April 1999 Talk: Florida Ecology and Evolution Conference, Archbold Biological Station, Lake Placid, FL.
Title: "Population modeling of the American Crocodile in South Florida with implications for conservation."

Presentations (continued):

- Feb. 1999 Invited Speaker: The Netherlands Institute of Ecology
 Title: "A biomass flux model of the herpetological assemblage
 of the Everglades, USA."
- Feb. 1999 Invited Speaker: The Netherlands Institute of Ecology
 Title: "Population ecology of the American crocodile."
- August 1997 Talk: The Ecological Society of America Meetings,
 Albuquerque, NM
 Title: "A Biomass flux model of the herpetological assemblage
 of Everglades National Park."
- June 1997 Talk: The Joint meetings of the SSAR, ASIH and Herp League,
 Seattle, WA.
 Title: "A Matrix Model of the American crocodile
 (*Crocodylus acutus*) in Florida."
- April 1992 Talk: Ecology and Evolution seminar series, University of
 Illinois at Chicago.
 Title: "Predation and Community Structure in the Cave Rat
 Fecal Latrine."
- July 1990 Poster: Ecological Society of America Meetings, Snowbird, UT
 Title: "Apparent Competition in the Cave Rat Latrine."
- Aug. 1989 Invited speaker: National Speleological Society Convention
 Title: "The Effects of Predation on Community Structure."
- May 1989 Talk: Ecology and Evolution seminar series, U of Illinois at Chicago.
 Title: "Community Structure in a Cave Rat Latrine."