Curriculum Vitae

**RANDALL W. FITZGERALD**

Coordinator of Education and Research

MONTCLAIR STATE UNIVERSITY

School of Conservation

Branchville, New Jersey 07826

[www.csam.monclair.edu/njsoc](http://www.csam.monclair.edu/njsoc)

973-948-4646

**Education**

B.A. with Honors, June 1979

Environmental Sciences

State University of New York at Purchase

Ph.D., January 1985

Biological Sciences

State University Center of New York at Binghamton

**Research Interests**

Evolutionary ecology, mate selection in mammals, gender differences in cognitive processing, microtine social systems, conservation photography.

**Professional Positions**

Summer 1979 **Research Assistant, Institute for Ecosystem Studies, Millbrook, NY**

•Assessed small mammal damage in apple orchards through live trapping and habitat assessment

1979-1981 **Graduate Research Assistant, State University Center at Binghamton**

•Developed a radiotelemetry system to study microtine rodents

•Uncovered the social dynamics and behavioral ecology of the pine vole (*Microtus pinetorum*)

•Assessed habitat quality and small mammal density

1981-1984 **Graduate Teaching Assistant, State University Center at Binghamton**

•Assisted in the teaching of ornithology, ecology, biology, and cell biology

Spring 1983 **Adjunct Lecturer in Zoology, State University Center at Binghamton**

•Taught zoology and supervised 16 teaching assistants (enrollment: 244)

1984-1985 **Adjunct Professor in Biology, State University Center at Binghamton**

•Taught general biology to non-majors (enrollment: 162)

1985-1987 **Research Assistant Professor, University of Pittsburgh**

•Directed and carried out field and lab research investigating the evolution of sex difference in cognitive processing

•Taught several graduate level courses in the Anthropology Dept.

1987-1990 **Assistant Professor of Environmental Studies and Coordinator of**

**Programs, Montclair State University**

*Administrative Duties:*

**•**Develop and implement over 100 individual academic programs annually for visiting teachers and their students

1987-1990 **Assistant Professor of Environmental Studies and Coordinator of**

**Programs, Montclair State University - *Continued***

*Administrative Duties -* ***Continued****:*

•Organize and implement weekend teacher training workshops

•Assign weekly teaching responsibilities for five faculty members, four graduate teaching fellows and six graduate teaching interns

•Implement and direct the academic and administrative computer services for the field campus

•Direct the development of audio visual and print media that promotes the educational activities of the field campus

•Secure grants in environmental education and biology

•Advise the Executive Director on the generation of annual budget, maintenance of buildings, operation of food services, and the development of environmental quality policies for the school.

*Teaching Responsibilities:*

•Teach a variety of courses in biology, ecology, and the environment including the following graduate courses: Society and the Natural Environment, Community Ecology, Critical Environmental Issues in New Jersey, and Environmental Education.

*Research:*

•Responsible for evaluating the effectiveness of the academic programs at the field center.

•Responsible for directing and coordinating all the research projects that take place on the field campus. This includes the required research projects of our four graduate teaching fellows. These graduate research projects have ranged from assessing the effectiveness of our school program to developing and testing ecological hypotheses.

•Past research has been in population/behavioral ecology, biological anthropology, and evolutionary psychology (see publication list).

1990-2002 **Associate Professor of Environmental Studies and Coordinator of**

**Programs, Montclair State University**

•Same as above

2002-2010 **Associate Professor of Environmental Studies, and Coordinator of Education and Research MSU**

**•** Teach a variety of courses in biology, ecology, and the environment to in-service teachers and their students at the School of Conservation.

•Oversee all educational and research programs at the School of Conservation

•Webmaster for the field center

2010-Present **Associate Professor of Environmental Studies, and Associate Director of the New Jersey School of Conservation, MSU**

•Oversee all educational and research programs at the School of Conservation

•Webmaster for the field center

•Teach graduate classes in ecology, environmental studies, biology, and conservation photography

**Awards for Study and Research**

1979-1981 Doctoral Dissertation Grant, U.S. Fish and Wildlife Service

1981-1984 Graduate Fellowship, New York State Univer. Center at Binghamton

1985-1987 NSF Post-doctoral Fellowship, University of Pittsburgh

1989-1990 Endangered and Nongame Species Grant, NJDEP

1991-1993 Department of Higher Education Research Grant, NJDHE

2011-2012 Endangered and Nongame Species Grant, NJDEP

**Professional Memberships/Appointments**

American Society of Mammalogists

Society for Conservation Biology

Orion Society

National Alliance for Environmental Education

Alliance for New Jersey Environmental Education

Animal Behavior Society

\*Advisory Committee Member, New Jersey Endangered and Nongame Species Program

\*Mid-Atlantic Regional Coordinator, U.S. Forest Service Environmental Ed. Unit

**Publications**

1981. "Spacing, movements and social organization in a free-ranging population of pine voles, *Microtus pinetorum*" in R.E. Byers, ed. ***Proceedings of the Fifth Eastern Pine and Meadow Vole Symposium*,** Gettysburg, PA. pp. 54-59.

1981. "Radiotelemetric evaluation of the effects of horticultural practices on pine and meadow voles in apple orchards: I. Rotary Mowing" in R.E. Byers, ed. ***Proceedings of the Fifth Eastern Pine and Meadow Vole Symposium*,** Gettysburg, PA. pp. 45-53.

1982. "Radiotelemetric evaluation of the effects of horticultural practices on pine and meadow voles in apple orchards: II. Herbicide Application" in R.E. Byers, ed. *P****roceedings of the Sixth Eastern Pine and Meadow Vole Symposium*,** Gettysburg, PA. pp. 74-79.

1983. "Social organization of a free-ranging population of pine voles, *Microtus pinetorum*" ***Behavioral Ecology and Sociobiology***, 13:183-187.

1983. "Movements of meadow voles in winter: Implications for vole management in orchard habitat" in R.E. Byers, ed. ***Proceedings of the Seventh Eastern Pine and Meadow Vole Symposium***, pp. 69-86.

1984. "Dynamics of social nesting in over-wintering meadow voles, *Microtus pennsylvanicus*: Possible consequences for population cycling" ***Behavioral Ecology and Sociobiology***, 15:9-17.

1985. "A user's guide to the successful radiotracking of small mammals in the field" in *P****roceedings of the Fifth International Conference on Wildlife Biotelemetry***, pp. 28-39.

1986. "Sex differences in spatial ability: An evolutionary hypothesis and test" ***American Naturalist***, 127:74-88.

1988. "Home range size as a predictor of mating system in *Microtus*" ***Journal of Mammalogy***, 69:311-319.

1989. "Sexual selection for spatial-learning ability" ***Animal Behavior***., 37:322-331.

1990. “Sex differences in spatial ability and activity in two vole species (*Microtus ochrogaster* and *M. pennsylvanicus*)” ***Journal of Comparative Psychology***, 104:88-93.

2002. “Field Studies in Geography and Environmental Science as a Vehicle for Teaching Science and Mathematics Skills” ***Middle States Geographer*** : 35

**Courses Taught**

General Biology, Zoology, Evolutionary Psychology, Behavioral Ecology, Animal Behavior, Community Ecology, Critical Environmental Issues in New Jersey, Environmental Education, Society and the Natural Environment, Curriculum Development in Environmental Education, Humanities and the Environment, Conservation Biology, Research Project in Environmental Education.