

January 14, 2008

## **CURRICULUM VITAE**

DOUGLASS H. MORSE

Hermon Carey Bumpus Professor of Biology Emeritus

Research Professor

Department of Ecology and Evolutionary Biology

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Providence, Rhode Island 02912

<http://www.brown.edu/Departments/EEB/faculty/Morse.html>

### **Education**

Bachelor of Science, Bates College, 1960 (Biology)

Master of Science, University of Michigan, 1962 (Zoology)

Doctor of Philosophy, Louisiana State University, 1965 (Zoology)

### **Professional Appointments**

1960-62 Teaching Fellow, University of Michigan

1962-65 Graduate Assistant, Louisiana State University

1965-66 Research Associate, University of Maryland

1966-69 Assistant Professor, University of Maryland

1969-75 Associate Professor, University of Maryland

1975-79 Professor, University of Maryland

1979-05 Hermon Carey Bumpus Professor of Biology, Brown University

2005- Hermon Carey Bumpus Professor of Biology Emeritus, Brown University

2005- Research Professor, Brown University

### **Visiting Appointments**

1972-73 Senior Visiting Researcher, Edward Grey Institute, University of Oxford, England

1981-82 Visiting Professor, Department of Animal Ecology, University of Uppsala, Sweden

1988-89 Visiting Scientist, Imperial College, University of London, England

1995 Visiting Professor, Department of Animal Ecology, University of Uppsala, Sweden

1996 Erskine Fellow, Department of Zoology, University of Canterbury, Christchurch, New Zealand

2002-03 Visiting Fellow, Department of Zoology, University of Melbourne, Melbourne, Australia

### **Books**

Morse, D. H. 1980. Behavioral mechanisms in ecology. Harvard University Press. 383 pp.

Morse, D. H. 1989. American warblers: an ecological and behavioral perspective. Harvard University Press. 406 pp.

Morse, D. H. 2007. Predator upon a flower. Harvard University Press. 377 pp.

### **Completed Research**

Morse, D.H. 1966. The contexts of songs in the yellow warbler. *Wilson Bulletin* 78: 444-455.

- Morse, D.H. 1966. Notes on the wren-thrush (*Zeledonia coronata*). *Condor* 68: 520-521.
- Morse, D.H. 1966. Hog Island (a coastal spruce forest) and its breeding vertebrate fauna. *Maine Field Naturalist* 22: 127-133.
- Morse, D.H. 1967. Foraging relationships of brown-headed nuthatches and pine warblers. *Ecology* 48: 94-103.
- Morse, D.H. 1967. The contexts of songs in the black-throated green and blackburnian warblers. *Wilson Bulletin* 79: 62-72.
- Morse, D.H. 1967. Competitive relationships between parula warblers and other species during the breeding season. *Auk* 84: 490-502.
- Morse, D.H. 1968. The use of tools by brown-headed nuthatches. *Wilson Bulletin* 80: 220-224.
- Morse, D.H. 1968. A quantitative study of foraging of male and female spruce woods warblers. *Ecology* 49: 779-784.
- Ficken, R.W., M.S. Ficken, and D.H. Morse. 1968. Competition and character displacement in two sympatric pine-dwelling warblers. (*Dendroica*, Parulidae). *Evolution* 27: 307-314.
- Morse, D.H. 1969. Distraction display of a pair of black-throated green warblers. *Wilson Bulletin* 81: 106-107.
- Morse, D.H. 1969. Commitments of speakers. *Bioscience* 19: 964.
- Morse, D.H. 1970. Ecological aspects of some mixed-species foraging flocks of birds. *Ecological Monographs* 40: 119-168.
- Morse, D.H. 1970. Differences between courtship and territorial songs. *Nature* 226: 659-661.
- Morse, D.H. 1971. The foraging of warblers isolated on small islands. *Ecology* 52: 216-228.
- Morse, D.H. 1971. Great horned owls and nesting seabirds. *Auk* 88: 426-427.
- Morse, D.H. 1971. The insectivorous bird as an adaptive strategy. *Annual Review of Ecology and Systematics* 2: 177-200.
- Morse, D.H. 1971. Effects of the arrival of a new species upon habitats utilized by two forest thrushes in Maine. *Wilson Bulletin* 83: 57-65.
- Morse, D.H. 1972. Habitat utilization of the red-cockaded woodpecker during the winter. *Auk* 89: 429-435.
- Morse, D.H. 1972. Habitat differences of Swainson's and hermit thrushes. *Wilson Bulletin* 84: 206-208.
- Morse, D.H. 1973. The foraging of small populations of yellow warblers and American redstarts. *Ecology* 54: 346-355.
- Morse, D.H. 1973. Interactions between tit flocks and sparrowhawks *Accipiter nisus*. *Ibis* 115: 591-593.
- Morse, D.H. 1973. Habitat utilization of meadow voles on small islands. *Journal of Mammalogy* 54: 792-794.
- Morse, D.H. 1974. Niche breadth as a function of social dominance. *American Naturalist* 108: 818-830.
- Morse, D.H. 1974. Foraging of pine warblers allopatric and sympatric to yellow-throated warblers. *Wilson Bulletin* 86: 474-477.
- Morse, D.H. 1975. Ecological aspects of adaptive radiation in birds. *Biological Reviews* 50: 167-214.
- Morse, D.H. 1975. Mourning doves breeding in an unusual habitat: the coastal spruce forest. *Wilson Bulletin* 87: 422-424.
- Morse, D.H. 1975. Erratic flights of goldcrests and treecreepers. *Ibis* 117: 379-382.
- Morse, D.H. 1976. Variables determining the density and territory size of breeding spruce-woods warblers. *Ecology* 57: 290-301.
- Morse, D.H. 1976. Hostile encounters among spruce-woods warblers (*Dendroica*, Parulidae). *Animal Behaviour* 24: 764-771.
- Morse, D.H. 1977. Feeding behavior and predator avoidance in heterospecific groups. *Bioscience* 27: 332-339.
- Morse, D.H. 1977. Estimating proboscis length from wing length in bumblebees (*Bombus* spp.). *Annals of the Entomological Society of America* 70: 311-315.
- Morse, D.H. 1977. The occupation of small islands by passerine birds. *Condor* 79: 399-412.
- Morse, D.H. 1977. Heterospecific groups. *Bioscience* 27: 713.
- Morse, D.H. and C.W. Buchheister. 1977. Age and survival of breeding Leach's storm-petrels in Maine. *Bird-banding* 48: 341-349.
- Morse, D.H. 1977. Resource partitioning in bumble bees: the role of behavioral factors. *Science* 197: 678-680.
- Morse, D.H. 1977. Foraging of bumble bees: the effect of other individuals. *Journal of the New York Entomological Society* 85: 240-248.
- Morse, D.H. 1978. Structure and foraging patterns of tit flocks in an English woodland. *Ibis* 120: 298-312.
- Morse, D.H. 1978. Populations of bay-breasted and Cape May warblers during an outbreak of the spruce budworm. *Wilson Bulletin* 90: 404-413.

- Morse, D.H. 1978. Size-related foraging differences of bumble bee workers. *Ecological Entomology* 3: 189-192.
- Morse, D.H. 1978. Interactions among bumble bees on roses. *Insectes Sociaux* 25: 365-371.
- Morse, D.H. 1979. Habitat use by the blackpoll warbler. *Wilson Bulletin* 91: 234-243.
- Morse, D.H. 1979. Foraging rate, worker size, and flower position: their role in bumble bee foraging. *Proceedings of the International Pollination Symposium* 4: 447-452.
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- Morse, D.H. 1980. The effect of reward size on foraging patterns of bumble bees. *Ecological Entomology* 5: 53-59.
- Morse, D.H. 1980. Foraging and coexistence of spruce-woods warblers. *Living Bird* 18: 7-25.
- Morse, D.H. 1980. Population limitation: breeding or wintering grounds? In: Keast, A., and E.S. Morton, eds. *Migrant birds in the American tropics*. Smithsonian Institution Press pp. 505-516.
- Morse, D.H. 1980. Behavioral mechanisms in ecology (book). Cambridge, Massachusetts. Harvard University Press. 383 pp.
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- Morse, D.H. 1981. Modification of bumble bee foraging: the effect of milkweed pollinia. *Ecology* 62: 89-97.
- Morse, D.H. 1981. Prey capture by the crab spider *Misumena vatia* (L.) (Thomisidae) on three common native flowers. *American Midland Naturalist* 105: 358-367.
- Morse, D.H. 1981. Foraging speeds of warblers in large populations and in isolation. *Wilson Bulletin* 93: 334-339.
- Fritz, R.S. and D.H. Morse. 1981. Nectar parasitism of *Asclepias syriaca* by ants: effect on nectar levels, pollinia insertion, pollinia removal and pod production. *Oecologia* 50: 316-319.
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- Morse, D.H. 1982. The turnover of milkweed pollinia on bumble bees, and implications for outcrossing. *Oecologia* 53: 187-196.
- Morse, D.H. 1982. Behavior and ecology of bumble bees. In: Hermann, H.R., ed. *Social Insects*, Vol. 3, pp. 245-322. New York, Academic Press.
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- Morse, D.H. 1985. Milkweeds and their visitors. *Scientific American* 253(1): 112-119.
- Morse, D.H. and J. Schmitt. 1985. Propagule size, dispersal ability, and seedling performance in *Asclepias syriaca*. *Oecologia* 67: 372-379.
- Morse, D.H. 1985. Nests and nest-site selection of the crab spider *Misumena vatia* (Araneae, Thomisidae) on

- milkweed. *Journal of Arachnology* 13: 383-390.
- Morse, D.H. 1986. Inflorescence choice and time allocation by insects foraging on milkweed. *Oikos* 46: 229-236.
- Morse, D.H. 1986. Predatory risk to insects foraging at flowers. *Oikos* 46: 223-228.
- Morse, D.H. 1986. Foraging decisions of crab spiders (*Misumena vatia*) hunting on inflorescences of different quality. *American Midland Naturalist* 116: 341-347.
- Morse, D.H. and R.S. Fritz. 1987. The consequences of foraging for reproductive success. In: Kamil, A.C. et al., eds. *Foraging Behavior*, pp. 443-455. Plenum Press, New York.
- Morse, D.H. 1987. Attendance patterns, prey capture, changes in mass, and survival of crab spiders *Misumena vatia* (Araneae, Thomisidae) guarding their nests. *Journal of Arachnology* 15: 193-204.
- Morse, D.H. 1987. The roles of pollen and ovary age in follicle production of the common milkweed *Asclepias syriaca*. *American Journal of Botany* 74: 851-856.
- Morse, D.H. 1988. Interactions between the crab spider *Misumena vatia* (Clerck) (Araneae) and its ichneumonid egg predator *Trychosis cyperia* Townes (Hymenoptera). *Journal of Arachnology* 16: 132-135.
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- Morse, D.H. 1988. Cues associated with patch-choice decisions by foraging crab spiders *Misumena vatia*. *Behaviour* 107: 297-313.
- Morse, D.H. 1988. Relationship between crab spider *Misumena vatia* nesting success and earlier patch-choice decisions. *Ecology* 69: 1970-1973.
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- Morse, D.H. 1990. Leaf choices of nest-building crab spiders (*Misumena vatia*). *Behavioral Ecology and Sociobiology* 27:265-267.
- Morse, D.H. 1991. Song types of Black-throated Green Warblers on migration. *Wilson Bulletin* 103:93-96.
- Jennersten, O. and D.H. Morse. 1991. The quality of pollination by diurnal and nocturnal insects visiting common milkweed, *Asclepias syriaca*. *American Midland Naturalist* 125: 18-28.
- Morse, D. H. 1991. Homing by crab spiders *Misumena vatia* (Araneae, Thomisidae) separated from their nests. *Journal of Arachnology* 19: 111-114.
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- Kahn, A.P. and D.H. Morse. 1991. Pollinium germination and fertilization in self and cross-pollinated common milkweed *Asclepias syriaca*. *American Midland Naturalist* 126: 61-67.
- Morse, D. H. 1992. Predation on dispersing *Misumena vatia* spiderlings and its relationship to maternal foraging decisions. *Ecology* 73: 1814-1819.
- Morse, D. H. 1992. Dispersal of the spiderlings of *Xysticus emertoni* (Araneae, Thomisidae), a litter-dwelling crab spider. *Journal of Arachnology* 20: 217-221.
- Morse, D. H. 1993. Choosing hunting sites with little information: patch choice responses of crab spiders to distant cues. *Behavioral Ecology* 4: 61-65.
- Morse, D. H. 1993. Some determinants of dispersal by crab spiderlings. *Ecology* 74: 427-432.
- Morse, D. H. 1993. Placement of crab spider (*Misumena vatia*) nests in relation to their spiderlings' hunting sites. *American Midland Naturalist* 129: 241-247.
- Morse, D. H. 1993. The twinning of follicles by common milkweed (*Asclepias syriaca*). *American Midland Naturalist* 130: 56-61.
- Morse, D. H. 1993. Black-throated Green Warbler. *Birds of North America* 55: 1-20.

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- Morse, D. H. 1994. Environmental correlates of sex in the ichneumonid wasp *Trypoxys cyperia*, a spider egg predator. *American Midland Naturalist* 131: 281-287.
- Morse, D. H. 1994. Blackburnian Warbler. *Birds of North America* 102: 1-20.
- Morse, D. H. 1994. Numbers of broods produced by the crab spider *Misumena vatia* (Araneae, Thomisidae). *Journal of Arachnology* 22:195-199.
- Morse, D. H. 1995. Gains of biomass by penultimate-instar crab spiders *Misumena vatia* (Araneae: Thomisidae) hunting on flowers. *Journal of Arachnology* 23:85-90.
- Morse, D. H. and E. G. Stephens. 1996. The consequences of adult foraging success on the components of lifetime fitness in a semelparous, sit-and-wait predator. *Evolutionary Ecology* 10:361-373.
- Erickson, K. S. and D. H. Morse. 1997. Profitability of a common prey to different developmental stages of a sit-and-wait predator. *Oecologia* 109:608-614.
- Morse, D. H. 1997. Distribution, movement, and activity patterns of an intertidal wolf spider *Pardosa lapidicina* population (Araneae: Lycosidae). *Journal of Arachnology* 25:1-10.
- Chien, S. A. and D. H. Morse. 1998. Foraging patterns of male crab spiders *Misumena vatia* (Araneae: Thomisidae). *Journal of Arachnology* 26:238-243.
- Morse, D. H. 1998. The effect of wounds on desiccation of prey: implications for a predator with extra-oral digestion. *Oecologia* 115:184-187.
- Morse, D. H. 1999. Attack sites of newly-emerged crab spiders *Misumena vatia* (Araneae, Thomisidae) on their prey. *Journal of Arachnology* 27:171-175.
- Morse, D. H. 1999. Choice of hunting site as a consequence of experience in late-instar crab spiders. *Oecologia* 120:252-257.
- Holdsworth, A. R. and D. H. Morse. 2000. Frequencies of male guarding and female aggression in the crab spider *Misumena vatia*. *American Midland Naturalist* 143:201-211.
- Morse, D. H. 2000. The role of experience in determining patch-use by adult crab spiders. *Behaviour* 137:265-278.
- Morse, D. H. 2000. Flower choice by naive young crab spiders and the effect of subsequent experience. *Animal Behaviour* 59:943-951.
- Morse, D. H. 2000. The effect of experience on the hunting success of newly-emerged spiderlings. *Animal Behaviour* 60:827-835.
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- Dukas, R. and D. H. Morse. 2003. Crab spiders affect patch visitation by bees. *Oikos* 101:157-163.
- Morse, D. H. 2004. A test of sexual cannibalism models, using a sit-and-wait predator. *Biological Journal of the Linnean Society* 81:427-437.
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- Morse, D. H. 2008. Defecation behavior of adult female crab spiders *Misumena vatia*. Submitted. *Journal of Arachnology* (12 MS pages).
- Morse, D. H. 2008. Post-reproductive changes in female crab spiders (*Misumena vatia*) exposed to a rich prey source. Submitted. *Journal of Arachnology* (20 MS pages).

## Service

Brown University:

- 1979-80 Search Committee for Invertebrate Zoologist
- 1979-80 Search Committee for Theoretical Ecologist (Chairman)
- 1980-81 Curriculum Committee
- 1980-81 Library Committee
- 1980-81 Search Committee for Plant Ecologist (Chairman)
- 1981-02 Executive/Advisory Committee, Program in Biology, Division of Biology and Medicine
- 1981-87 Director, Graduate Program in Ecology & Evolutionary Biology
- 1982-83 Acting Chairman, Section of Population Biology & Genetics
- 1982- Undergraduate Advisor
- 1982-83 Search Committee for Comparative Anatomist
- 1983-84 Academic Advisory Committee on Anatomy
- 1983-84 Search Committee for Theoretical Ecologist (Chairman)
- 1983-84 Promotions Committee, Chairman
- 1984-92 Ad-hoc Committees on Endowed Chairs
- 1984 Ad-hoc Committee on Selection of Dean of Biology
- 1984-85 Chairman, Section of Population Biology and Genetics
- 1985-93 Chairman, Section of Population Biology, Morphology and Genetics
- 1985-86 Search Committee for Population Geneticist (Chairman)
- 1986-87 Search Committee for Population Ecologist (Chairman)
- 1987-88 Search Committee for Evolutionary Geneticist (Chairman)
- 1987-88 Ad-hoc Committee on Statistics (Chairman)
- 1988 Search Committee for Evolutionary Biologist
- 1988-89 Search Committee for Evolutionary Morphologist
- 1989-90 Search Committee for Evolutionary Geneticist (Chairman)
- 1989-90 Search Committee for Evolutionary Morphologists
- 1990-93 Interim Dean of Biology
- 1990-92 University Biomedical Research Support Committee, (Chairman)
- 1990-92 Institutional Animal Care and Use Committee (member 1990-91, observer 1991-92)

1990-93 Biology Curriculum Committee  
 1990-93 Executive Staff (Biology and Medicine)  
 1990-92 Medical Council  
 1990-92 Medical Faculty Council  
 1990-92 Academic Awards Committee (Biology and Medicine)  
 1990-91 Search Committee for Dean of Biological Sciences (Chairman)  
 1991-92 Search Committee for Dean of Medicine and Biological Sciences  
 1991-96 NIH Training Grant in Environmental Pathology, Executive  
 Committee  
 1993-95 Department Chairs Agenda Committee  
 1993-02 Chairman, Department of Ecology and Evolutionary Biology  
 1993-95 Committee to Establish Guidelines and Procedures for New  
 Departments (Biology & Medicine)  
 1993-94 Search Committee for Marine Ecologist (Chairman)  
 1993-94 Committee on Mission for Division of Biology and Medicine  
 1993-94 Committee on Mission for Program in Biology (Chairman)  
 1994-95 Task Force to Develop Environmental Science (Co-chairman)  
 1994-95 Committee to Develop Strategic Plan for Division of Biology and  
 Medicine  
 1994-95 Search Committee for Evolutionary Morphologist  
 1997-98 Building Committee for Division of Biology and Medicine  
 1998-99 Search Committee for Conservation Biologist (Chairman)  
 1999-00 Search Committee for Dean of Faculty  
 2000-02 University Committee on Endowed Chairs  
 2001-02 Steering Committee for Strategic Plan, Division of Biology and Medicine  
 2003- Editor, Ecology & Evolutionary Biology Newsletter  
 2007 Ad-hoc Committee on Academic Conduct, Division of Biology and Medicine

### Editorial Service

Editor, *Ecology*, 1983-1987  
 Editorial Board, *Northeastern Naturalist*, 2002-2008

Publication referee:

<i>Animal Behaviour</i>	<i>Ecological Monographs</i>
<i>Auk</i>	<i>Estuaries</i>
<i>Ecology</i>	<i>Canadian Entomologist</i>
<i>Oikos</i>	<i>Journal of Field Ornithology</i>
<i>Bioscience</i>	<i>American Midland Naturalist</i>
<i>Biotropica</i>	<i>Journal of Mammalogy</i>
<i>Science</i>	<i>American Naturalist</i>
<i>Nature</i>	<i>Ecological Entomology</i>
<i>Evolution</i>	<i>Ornithological Monographs</i>
<i>Oecologia</i>	<i>Systematic Zoology</i>
<i>Emu</i>	<i>Wilson Bulletin</i>
<i>Ibis</i>	<i>Ornis Scandinavica</i>
<i>Condor</i>	<i>Florida Field Naturalist</i>
<i>Behaviour</i>	<i>Canadian Journal of Zoology</i>
<i>Holarctic Ecology/ Ecography</i>	<i>Environmental Entomology</i>
<i>American Scientist</i>	<i>Journal of Arachnology</i>
<i>Rhodora</i>	<i>Publications of the Nuttall</i>
<i>Zeitschrift fur Tierpsychologie/</i>	
<i>Ethology</i>	<i>Ornithological Club</i>

<i>Botanical Gazette</i>	<i>American Journal of Botany</i>	
<i>Apidologie</i>	<i>Conservation Biology</i>	
<i>Proceedings of the Entomological Society of Ontario</i>	<i>Annales Zoologici Fennici</i>	
<i>Ethology, Ecology, Evolution</i>	<i>Behavioral Ecology</i>	
<i>North America</i>	<i>International Council for Bird Preservation, Technical Publication Series</i>	<i>Birds of</i>
<i>Revue Suisse de Zoologie</i>	<i>Functional Ecology</i>	<i>Bulletin</i>
<i>of the Torrey Botanical Club</i>	<i>Journal of Experimental Zoology</i>	
	<i>Rhode Island Natural History Survey</i>	
	<i>Hydrobiologia</i>	
	<i>Proceedings of the Royal Society of London B</i>	
	<i>Journal of Insect Behavior</i>	
	<i>Northeastern Naturalist</i>	
	<i>Journal of Animal Ecology</i>	
	<i>Journal of Experimental Biology</i>	
	<i>Behavioral Ecology and Sociobiology</i>	
	<i>Animal Cognition</i>	
	<i>CSIRO Wildlife Research</i>	
	<i>New Zealand Journal of Zoology</i>	
	<i>Cahiers de Biologie Marine</i>	
	<i>Biological Journal of the Linnean Society</i>	
	<i>Austral Ecology</i>	
	<i>Ornitologia Colombiana</i>	

**Grant Review Boards:**

1982-88 Sigma Xi--Scientific Research Society of North America  
 1986 NSF - EPSCoR panel, facilitator.  
 1991 NSF - Population Biology and Physiological Ecology (declined)  
 1993-94 NSF - Population Biology  
 2000 NSF - Biocomplexity

**Proposal reviewer**

NSF--general ecology, psychobiology, population biology, systematic biology, animal behavior, LTER (long-term research in environmental biology)  
 ERDA--biological sciences  
 National Geographic Society  
 Xerces Society  
 Earthwatch  
 USDA  
 NSERC (Canada)  
 Center for Field Research  
 Austrian Science Fund (FWF)  
 Marston Fund, Cook Fellowships (Royal Society of New Zealand)

**Other:**

Visiting Committee:  
 Lehigh University, 1981-88  
 Clark University, 1990  
 University of Tennessee 1998  
 Vanderbilt University 1998

**Symposia and meetings coordinated:**

1983 - Population Biologists of New England, Coordinator  
 1984 - Second International Foraging Conference, Coordinator  
 1996 - Ecological Society of America, local co-chair

## Academic honors, research grants, fellowships, honorary societies

### Memberships in scientific societies

American Association for the Advancement of Science (fellow)  
Sigma Xi  
Ecological Society of America  
British Ecological Society  
Society for the Study of Evolution  
Animal Behavior Society  
American Ornithologists' Union (fellow)  
Cooper Ornithological Society  
Wilson Ornithological Society  
American Arachnological Society  
Botanical Society of America  
American Society of Naturalists (elected member)  
International Society for Behavioral Ecology  
Association of Field Ornithologists  
Rhode Island Natural History Survey

### Research in progress

Foraging ecology, life history and sexual selection of spiders  
Four-trophic-level studies of ferns, a moth, its parasitoids and hyperparasitoids

### Teaching

#### Undergraduate

Bio 143	Problems in Field Biology	1979-2003
Bio 148	Vertebrate Ecology	1979-84
Bio 195/196	Independent Study	1979-present (40 students)
Bio 12	Current Concepts in Biology II (team)	1980-84
Bio 4	Ecology in Current Society	1985-88
Bio 46	Insect Biology	1989-present
Bio 19.8	Natural History of the New England Landscape	2004-present

#### Graduate

Bio 293	Graduate Seminar in Pollination Biology	1984-85
Bio 244	Graduate Seminar in Life-history Strategies	1987-88
Bio 243	Graduate Seminar in Mutualistic Interactions	1990-91
Bio 243	Graduate Seminar in the Genetical Theory of Evolution and the Modern Synthesis	1994-95, 2000-01
Bio 244	Graduate Seminar in Conservation Biology	1998-99

Additional courses taught at the University of Maryland, 1966-1979: Introductory Ecology, Population and Community Ecology, Ecology and Population Biology, Behavioral Ecology, Graduate Seminar in Ecology, Graduate Research in Ecology, Comparative Anatomy, Evolution, Vertebrate Zoology.