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CURRICULUM VITAE

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Hermon Carey Bumpus Professor of Biology Emeritus

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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: life history and fitness in a crab spider. 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.
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- 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.

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- 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.
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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.
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- Morse, D.H. 1991. Song types of Black-throated Green Warblers on migration. *Wilson Bulletin* 103:93-96.
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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.

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- 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. 1995. Gains of biomass by penultimate-instar crab spiders *Misumena vatia* (Araneae: Thomisidae) hunting on flowers. *Journal of Arachnology* 23:85-90.
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- 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.
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- Morse, D. H. 1998. The effect of wounds on desiccation of prey: implications for a predator with extra-oral digestion. *Oecologia* 115:184-187.
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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
 1982-05 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
 1984-85 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)
 1988-89 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
 2007-08 Ad-hoc Committee on Academic Conduct, Division of Biology and Medicine

Editorial Service

Editor, *Ecology*, 1983-1987
 Editorial Board, *Northeastern Naturalist*, 2002-2008
 Editorial Board, *Journal of Insect Behavior*, 2005-2007
 Managing Editor, *Journal of Arachnology*, 2009-2014

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</i>	<i>Annales Zoologici Fennici</i>
<i>Society of Ontario</i>	<i>Behavioral Ecology</i>
<i>Ethology, Ecology, Evolution</i>	<i>International Council for Bird</i>
<i>Birds of North America</i>	<i>Preservation, Technical Publication</i>
<i>Revue Suisse de Zoologie</i>	<i>Series</i>
<i>Bulletin of the Torrey Botanical Club</i>	<i>Functional Ecology</i>
<i>Journal of Experimental Zoology</i>	<i>Rhode Island Natural History Survey</i>
<i>Hydrobiologia</i>	<i>Proceedings of the Royal Society of</i>
<i>Journal of Insect Behavior</i>	<i>London B</i>
<i>Journal of Animal Ecology</i>	<i>Northeastern Naturalist</i>

Behavioral Ecology and Sociobiology
CSIRO Wildlife Research
Cahiers de Biologie Marine
Austral Ecology
Ornitologia Colombiana
Journal of Orthopteran Research
Biodiversity and Conservation
Evolutionary Ecology
Population Ecology
Revista Ibérica de Aracnología
Insect Science
Psyche
Journal of Natural History
Studies in Neotropical Fauna and Environment

Journal of Experimental Biology
Animal Cognition
New Zealand Journal of Zoology
Biological Journal of the Linnean Society
Journal of Ethology
Basic and Applied Ecology
Journal of Insect Science
Naturwissenschaften
Journal of Economic Entomology
Acta Zoologica Mexicana
Ecology Letters
Acta Ethologica
Entomologia Experimentalis et Applicata

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.