

VITAE

Gordon M. Burghardt

PROFESSIONAL ADDRESS

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HOME ADDRESS

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EDUCATION

S.B. - University of Chicago, 1959-1963; major: Biopsychology

Ph.D. - University of Chicago, 1963-1966; Biopsychology

POSITIONS

Visiting Professor, Kyoto University (Museum) – working in Zoology Department and Kyoto Primate Institute (Inuyama), 2008

Distinguished Scientist Lecturer, American Psychological Association, 2007

Editor, Journal of Comparative Psychology (APA) for term from 2006-2011.

Visiting Senior Scientist, National Amphibian Conservation Center, Detroit Zool. Inst., 2004

Instructor, Amphibian Professional Development Program course (American Zoo and Aquarium Association), National Amphibian Conservation Center, April, 2004

James R. Cox Chaired Professorship Chair (2002-2005)

Alumni Distinguished Service Professor, University of Tennessee, 1992-

Director, UT Graduate Program in Ethology, 1981-91

Professor of Ecology and Evolutionary Biology, Univ. of Tennessee, 1995-

Professor of Zoology, University of Tennessee, 1979-95

Professor of Psychology, University of Tennessee, 1974-

Associate Professor of Psychology, University of Tennessee, 1970-1974

Assistant Professor of Psychology, University of Tennessee, 1968-1970

Instructor of Biology, University of Chicago, 1966-67

Research Associate, Smithsonian Tropical Research Institute, 1978-94

Visiting Professor, The Rockefeller University, 1976-1977

Visiting Scientist, Peabody, J.F. Kennedy Center for Research, summer, 1972

AWARDS, GRANTS, and CONTRACTS

National Institute for Mathematical and Biological Synthesis – NSF (NIMBioS.org): Award supporting 2 year working group on Play, Evolution, & Sociality. PI along with Marc Mangel, Elisabetta Palagi, and Sergio Pellis (2011-13).

Haines Morris Endowment: Award supporting a Symposium on Animals, Ethics and Law. PI along with John Nolt, Joan Heminway, Iris Goodwin, and John Garthoff (2011-12)

Museum of Manitoba: Molecular genetic studies of northern populations of common gartersnakes, *Thamnophis sirtalis* (2006-12)

- National Park Service (Genetics and behavior of gartersnakes on Isle Royale, National Park (MI) with John Placyk and Gary Casper (2010-13)
- Faculty Development and RFTW funding for research at the Kyoto University Primate Institute in Inuyama and on Japanese religions in conjunction with visiting professorship in Japan (2008)
- Wisconsin Department of Natural Resources: Nuclear DNA analysis of an intergrade zone between *Thamnophis butleri* and *Thamnophis radix* in Wisconsin (2007-8)
- Ohio Wildlife Survey: Development and competitive ability of a declining isolated population of the plains gartersnake, *Thamnophis radix* and the common gartersnake, *Thamnophis sirtalis* (2006)
- Strachan & Vivian Donnelley Fund: Comparative studies on behavioral development and conservation (2005-2008)
- University of Tennessee Macebearer (2005-2006): highest academic award at the University of Tennessee
- Faculty Development Leave, Detroit Zoological Institute: Assessing play behavior and environmental enrichment in amphibians (2004)
- Japan Society for the Promotion of Science Research Grant: From toad skin glands to snake nuchal glands: Examination of sequestered chemical compounds and analysis of physiological function and behavioral cost (Co-PI with Akira Mori, Kyoto University) (2004-6)
- Wisconsin Department of Natural Resources: Genetic distinctiveness of *Thamnophis butleri* in Wisconsin (2004-6)
- N.S.F. Research Grant: The influence of selection and gene flow on geographic variation in antipredator behavior (DDIG with John Placyk) 2003-2005, (IBN 0309339)
- UTK University Studies Faculty Award for Interdisciplinary Contributions (2002)
- UTK Faculty First 2002 Award (for multimedia/website development of research presentations)
- UT Science Alliance Research Excellence Award (2001)
- Cleveland Zoological Society: Assessing Genetic and Management Issues in a Threatened Species of Garter Snake in Ohio (2001-02)
- Dallas Zoological Society: Neurological effects of an enriched environment in varanid lizards. (with Ruston Hartdegen, Dallas Zoo) (2000-02)
- Chicago Zoological Society: Assessing hybridization and management issues in a threatened species of garter snake (*Thamnophis butleri*) in southeastern Wisconsin (2000-02)
- College of Arts and Sciences (UTK) Faculty Public Service Award (1999)
- Ohio Wildlife Survey: Genetic distinctiveness of *Thamnophis radix* in Ohio (1999-2001)
- UTK Travel Award to Bangalore, India to the International Ethological Conference (1999).
- UTK/Science Alliance Research funding award (1997-2000)
- N.S.F./Japan Program Research Grant: Function and Ontogeny of a Remarkable Venomous Vertebrate Neck Gland (with Akira Mori, Kyoto Univ.), 1996-99, (INT95-13100)
- University of Vienna Konrad Lorenz lecturer (1995)
- UTK Travel Award to Austria and Germany to attend the World Play Congress and visit ethological research institutes (1995)
- Okinawa Pref. Institute of Public Health, Habu Study Section, Research Grant: Behavior of juvenile habu (*Trimeresurus flavoviridis*) (1993-98)
- N.S.F. Research Grant: Genetic Diversity and Behavioral Ontogeny (with G. F. McCracken), 1994-1998 (IBN94-11140)

N.S.F. Research Grants: Ontogeny and Behavioral Diversity, 1987-1991 (BNS87-09629), 1991-1993 (BNS91-11387)
N.I.C.H.D. Training Grant (Director): Communication: Development, Genetics, and Physiology, 1986-1992 (T32-HD07303)
Science Alliance, UTK Center of Excellence, 1984-2000 (annual competitive salary stipend) - now permanent
N.S.F. Equipment Grant: Controlled Environmental Chambers - A Group Request (with S. Riechert, G. McCracken, S. Pimm, and G. Saylor), 1988-1989 (BSR87-11826)
N.S.F. Research Grants: Early Experience and Sensory Processes, 1975-1978 (BNS75-03444), 1978-1983 (BNS78-14196), 1983-1987 (BNS82-17569)
Chancellor's Research Scholar award, University of Tennessee: 1983
Smithsonian Institution: Scholarly Studies and I.E.S.P. awards to study behavior and ecology of green iguanas in Panama and Venezuela, (with A.S. Rand), 1979-84
N.S.F. Faculty Science Fellowship: 1978-1979. (primarily in Panama - STRI; with A. S. Rand)
John Simon Guggenheim Foundation Fellow: 1976-1977. (worked in laboratories of Carl Pfaffmann and Donald Griffin)
N.S.F. Equipment Grant: Animal Behavior & Ecology (with S. Riechert), 1975-77 (HES75-11082)
N.I.M.H. Research Grant: Investigations on Perception and Behavior, 1967-75 (MH-15707)
N.I.M.H. Research Grant: Behavior and Ontogeny (black bear) 1971-73 (MH-20565)
U.S.P.H.S. Traineeship in Experimental-Biological Psychology (1963-1966)

SELECTED CURRENT MEMBERSHIPS AND OFFICES HELD

American Association for the Advancement of Science (elected as Fellow, 1996)
American Association of University Professors (membership award 1997). Local chapter officer
American Psychological Association (elected as Fellow, 1983 – Division 6; Behavioral Neuroscience and Comparative Psychology; 2004 – Division 3: Experimental Psychology; 2011 – Division 1: General Psychology)
Association for Psychological Science (formerly American Psychological Society), Charter member (elected as Fellow, 1990)
American Society of Ichthyologists and Herpetologists (Life member, Distinguished Herpetologist Lecturer in 1985)
Animal Behavior Society (Delegate at Large, 1980-83; Presidential sequence, 1984-88; Fellow, 1991; Research proposal evaluation committee, 2005)
Behavioral Neuroscience and Comparative Psychology, Division 6 of the American Psychological Association. (President-elect, 2009-10; President, 2010-11; Past-President, 2011-12)
Herpetologist's League (Student research proposal committee, 2009-10)
Human Behavior and Evolution Society
International Ethological Conference Comm. (U.S., elected for term 1984-90)
International Iguana Society (Advisory Board 1991-2004)
International Society of Chemical Ecology (charter & life member; award for 24 years service on editorial board)
International Society for Human Ethology (Executive Committee, 1981-83)
Scientists Center for Animal Welfare (Board of Trustees, 1993-99)
Sigma XI (UTK chapter - Admissions Comm., 1981-1983)
Society for the Study of Amphibians and Reptiles (Symposium Coordinator. 1981-82).

The Association for the Study of Play (TASP)

REVIEWS, PANELS, AND EDITORIAL WORK

Review research proposals for National Science Foundation, National Institutes of Health, National Geographic Society, among others; **regularly review mss** for a number of journals and over the years have reviewed for *Acta Herpetologica*; *Aggressive Behavior*; *American Journal of Physical Anthropology*; *American Naturalist*; *American Psychologist*; *American Zoologist*; *Animal Behaviour*; *Animal Cognition*; *Animal Conservation*; *Animal Learning & Behavior*; *Animals & Society*; *Anthrozoös*; *Behavioral Biology*; *Behavioral & Brain Sciences*; *Behavioral Ecology*; *Behavioral Ecology & Sociobiology*; *Behavioral Neuroscience*; *Behavioural Processes*; *Biology Letters*; *Canadian Journal of Zoology*; *Carnivore*, *Clinical Psychology Review*; *Conservation Biology*; *Comparative Cognition & Behavior Reviews*; *Copeia*; *Current Zoology*; *Developmental Psychobiology*; *Ecology, Ethology, Evolution*; *Evolution and Human Behavior*; *Evolutionary Psychology*; *Herpetologica*; *Herpetological Journal*; *Herpetological Monographs*, *Iguana*; *ILAR Journal*; *Interaction Studies*; *Journal of Applied Animal Welfare Science*; *Journal of Applied Behavior Analysis*; *Journal of Chemical Ecology*; *Journal of Comparative and Physiological Psychology*; *Journal of Comparative Psychology*; *Journal of Ethology*; *Journal of Herpetology*; *Journal of Theoretical Biology*; *Journal of Tropical Ecology*; *Journal of Zoology*; *Learning & Motivation*; *Natural Areas Journal*; *Nature*; *Naturwissenschaften*; *Neuroscience and Biobehavioral Reviews*; *Open Evolution Journal*; *Pharmacology, Biochemistry & Behavior*; *Physiology & Behavior*; *Proceedings of the National Academy of Sciences (PNAS)*; *Proceedings of the Royal Society: Biological Sciences*; *Paleobiology*; *Psychological Science*; *Psychopharmacology*; *Psychology*; *Quarterly Review of Biology*; *Science*; *Scientific Reports*; *Society & Animals*; *Ursus*; *Zeitschrift für Tierpsychologie*; and *Zoo Biology*. Also numerous book manuscripts (Cambridge, Chicago, Harvard, Johns Hopkins, MIT, Oxford, Wisconsin, etc.), textbooks, and chapters.

Currently on editorial boards of *Ethology*, *Evolutionary Psychology*, *Journal of Applied Animal Welfare Science*, *Society & Animals*, *American Journal of Play*, *Herpetologica*, *Herpetological Monographs*; *International Journal of Play*, *Journal of Comparative Psychology*, and *Open Behavioral Science Journal*.

Have served as Editor of the *Journal of Comparative Psychology* (2005-2011), American Editor of *Ethology* (formerly *Zeitschrift für Tierpsychologie*) (1981-87) and as Associate Editor of *Animal Learning & Behavior* (1977-78). Have also served on the editorial boards of *Developmental Psychobiology*, *Journal of Chemical Ecology* (1975-1998), *Journal of Herpetology*, *Zoo Biology*, and *Carnivore*. Ethology editor for Garland Publishing Co. (1977-82). Advisory board of the Encyclopedia of the World's Zoos (3 vols., Fitzroy Dearborn, 2001)

National Science Foundation Psychobiology Grant Proposal Review Panel: 1978-1981. National Science Foundation Dissertation Improvement Grant Program Review Panel (Animal Behavior): 2002. National Science Foundation Graduate Student Fellowship Program Review Panel (Psychology): 2003. (declined serving in 2002, 2004-2009)

OTHER PROFESSIONAL RESPONSIBILITIES

Member IUCN Species Survival Commission (SSC) Boa and Python specialist group (2011 -)
Member, AZA Komodo Dragon Species Survival Plan management group grant panel (2003 - 9)

Workshop participant, ongoing NSF working group on behavioral metadata systems (Ethoinformatics) to develop Ethosource, a web-based data archive (2002, 2004, 2005).
Member, IUCN Species Survival Commission (SSC) Iguana Specialist Group, 2001-.
Science Advisor, Earth & Sky radio series, Bryd & Block Communications, Austin, TX, 1998-.
Science consultant to numerous film productions on animal behavior, play, and reptiles (BBC, National Geographic, Green Umbrella, Zebra, and others).
Member, ASIH Comm to revise animal care guidelines for amphibians and reptiles (1996-97)
Member Smithsonian Institution Site Visit Team for Scientific Staff Evaluations (Smithsonian Tropical Research Institute and the National Zoo) various years between 1980 - 1992.
Member, Site Visit Team to Laboratory of Comparative Ethology (NICHD), 1988.
Member, IUCN Ethics Working Group
Core member of Hastings Center working groups on Ethics of Animal Experimentation (1988-90), Biotechnology & the Environment (1990-4), Legacies of Darwin & Leopold (1996-99), Human Nature Project: Genes, Ecosystems, and Evolution (2000-02).
Center for Humans and Nature (NYC) (Consultant and core workshop participant, 2003-12)

SELECTED PRESENTATIONS

Over the years I have given **papers or invited addresses** at a variety of meetings including: Animal Behavior Society, American Association for the Advancement of Science, American Association of Zoological Parks & Aquariums, American Psychological Association, American Society of Ichthyologists and Herpetologists, International Behavioural and Neural Genetics Society (invited symposium speaker), International Conference on Environmental Enrichment (invited plenary speaker), International Herpetological Symposium, International Society of Chemical Ecology, International Ethological Conferences, Midwestern Psychological Association, Southeastern Psychological Association, Southwestern Psychological Association, Western Psychological Association, Southern Comparative Psychology Association, American Chemoreception Society, Psychonomic Society, Society for the Quantitative Analysis of Behavior, Society for the Study of Amphibians & Reptiles, Scientists Center for Animal Welfare, Snake Ecology Group, Southern Society of Philosophy and Psychology, Tennessee Herpetological Society, The Association for the Study of Play (TASP) (Invited Keynote Speaker, 2012). Wolfgang Wickler Ecological Intelligence Hypothesis Symposium (Tützing, Germany), World Congress of Herpetology (Adelaide, Australia), Croatian Biological Congress (invited plenary speaker), Winter Conference on Animal Learning and Behavior, and World Play Congress (Salzburg, Austria). Invited participant to all Winter Animal Behavior Conferences. Invited participant in many symposia and organizer of several.

Invited talks at Indiana University, Washington University, Purdue University, Massachusetts Institute of Technology, University of California at Davis, University of Chicago, Monell Chemical Senses Center, University of Kansas, University of Pennsylvania, University of Colorado, Universidad Complutense de Madrid, Bucknell University, Carleton College, Central Michigan University, City College of New York, Downstate (NY) Medical Center, University of Minnesota, University of Waterloo (Canada), University of Tennessee Medical Units (Memphis), Institut für Hirnforschung (University of Bremen, Germany), University of Lethbridge, Louisiana State University, Memphis State University, Maryville College, Middle Tennessee State University, Missouri Western State University, Northeastern University, Ohio University Eastern, SUNY (Binghamton), Vanderbilt University, Rollins College, Florida State University, University of Oklahoma, Cornell University, Peabody, Princeton University,

American Museum of Natural History, National Zoological Park, Chicago Zoological Society (Brookfield), Detroit Zoological Institute, North Carolina Center for the Advancement of Teaching, Department of Habu (Okinawa Pref. Institute of Public Health), Kyoto University, Kyoto Primate Institute, University of the Ryukyus (Okinawa, Japan), Max Planck Institut für Verhaltensphysiologie, University of Valencia, University of Vienna, Austrian Academy of Sciences (Konrad Lorenz Institut für Verhaltensforschung), Konrad Lorenz Institute for Evolution and Cognition, Smithsonian Tropical Research Institute, Smithsonian Institution, Southern College (TN), St Joseph's University (PA), Tlaxcala University (MX), University of Texas (Tyler), University of Valencia (Spain), Zoo Atlanta, University of Zagreb (Croatia), University of Veracruz, Western Carolina University, and Rockefeller University.

LOCAL PROFESSIONAL ACTIVITIES

Host committee, Animal Ethics and Law symposium, Mar., 2012, Baker Center, UT (2011-12)
College of Arts and Sciences Dean's committee on AAAS Fellow nominations (2008-10)
University Studies Colloquy on Spirituality and Critical Inquiry (Co-chair, 2007-11)
College of Arts and Sciences Speakers Bureau (2002-09)
Local Committee, UT Environmental Semester (2003-5)
Local Committee, National meeting of the Society for the Study of Evolution, Society of Systematic Biologists, and the American Society of Naturalists. Knoxville, 2001.
Vice-President, UT Chapter of the AAUP (2000-01), Executive Committee (2001-03),
Nominating Committee (2005-7).
Local Committee, meeting of the International Bear Association, Gatlinburg, TN, 1997-98.
Founding member of the Appalachian Zoological Society. Board member 1972-1976.
Knoxville Zoo (Acting Curator of Research, 1974-76; Medical Advisory Board, 1981-86, and
Research Board, 1990-
Board member of the Appalachian Black Bear Rehabilitation and Research Center (1991-99),
Vice-President for Operations (1996-99).
Local and International Science Fair Judging.
Hosted national meeting of the Animal Behavior Society, June 1981.

UNIVERSITY SERVICE

Served on numerous Psychology and Zoology department committees and others including Department and Division Head Search Committees, Undergraduate Curriculum Revision Committee, University Senate (elected), Campus Environment Committee, Triad Committee (Humanities), Equal Opportunity Panel, Commencement Speaker Advisory Committee, WLS Animal Care Committee, Biology Consortium Faculty Advisory Committee, Liberal Arts College Advisory Committee, Science Alliance Selection Committee, Biology Consortium Review Committee, Counseling Psychology Program Review Committee (1995), Institutional Animal Care and Use Committee (1993-97), University Graduate Council (1993-96, alternate 1996-99), and College of Arts and Sciences Speakers Bureau. Member of the University Senate Leadership Retreat (September, 2001, 2002). American Association of University Professors: Executive Committee Univ. Tennessee Chapter (2002-3); Vice President (2001-2); Nominating Committee (2005). Have served on the University Studies Executive Committee and organizer/convener of the Association of Distinguished Service Professors (UTK).

Publications of Gordon M. Burghardt

Books

- Burghardt, G. M. & Bekoff, M. (eds.). The Development of Behavior: Comparative and Evolutionary Aspects. Garland STPM press, New York, 1978.
- Burghardt, G. M. & Rand, A. S. (eds.). Iguanas of the World: Their Behavior, Ecology, and Conservation. Noyes Publications, New Jersey, 1982 (reprinted, 1995); Reprinted and currently available from William Andrew Publishing.
- Burghardt, G. M. (ed.). Foundations of Comparative Ethology. Benchmark papers in Behavior Series, Van Nostrand Reinhold, New York, 1985.
- Burghardt, G. M., Bielitski, J. T., Boyce, J. R., & Schaefer, D. O. (eds.). The Well-being of Animals in Zoo and Aquarium Sponsored Research. Scientists Center for Animal Welfare, Greenbelt, MD, 1996.
- Bekoff, M., Allen, C., & Burghardt, G. M. (eds.). The Cognitive Animal: Empirical and Theoretical Perspectives on Animal Cognition. MIT Press, Cambridge, MA, 2002.
- Burghardt, G. M. The Genesis of Animal Play: Testing the Limits, MIT Press, Cambridge, MA, 2005. Paperback (corrected) edition (2006).

Journal Articles

- Burghardt, G. M. Effects of prey size and movement on the feeding behavior of the lizards *Anolis carolinensis* and *Eumeces fasciatus*. Copeia 1964, 576-578.
- Burghardt, G. M. Stimulus control of the prey attack response in naive garter snakes. Psychonomic Science 1966, 4, 37-38.
- Burghardt, G. M. & Hess, E. H. Food imprinting in the snapping turtle, *Chelydra serpentina*. Science 1966, 151, 108-109. [Reprinted in The competent infant: Research and commentary, edited by L. J. Stone, H. T. Smith & L. B. Murphy, Basic Books, New York, 1973; Behavior of the newborn: Prenatal and perinatal influences, edited by L. J. Stone, H. T. Smith, & L. B. Murphy, Basic Books, New York, 1978; Imprinting, edited by E. H. Hess & S. B. Petrovich, Benchmark Papers in Animal Behavior, Vol. 5, Dowden, Hutchinson & Ross, New York, 1977.]
- Burghardt, G. M. Chemical-cue preferences of inexperienced snakes: Comparative aspects. Science 1967, 157, 718-721. [Reprinted in Readings in animal behavior, T. A. McGill, ed. Holt, Rinehart, and Winston, New York, 2nd ed. 1973, 3rd ed., 1977.]
- Burghardt, G. M. The primacy effect of the first feeding experience in the snapping turtle. Psychonomic Science 1967, 7, 383-384. [Reprinted in Current topics in experimental psychology, edited by K. L. Beauchamp, R. L. Bruce & D. W. Matheson, Holt, Rinehart, and Winston, New York, 1970.]
- Burghardt, G. M. The reinforcement potential of the consummatory act in the modification of chemical-cue preferences. American Zoologist 1968, 8, 745.
- Burghardt, G. M. Chemical preference studies on newborn snakes of three sympatric species of *Natrix*. Copeia 1968, 732-737.
- Burghardt, G. M. & Hess, E. H. Factors influencing the chemical release of prey attack in newborn snakes. Journal of Comparative and Physiological Psychology 1968, 66, 289-295.

- Sheffield, L. P., Law, J. H. & Burghardt, G. M. On the nature of chemical food sign stimuli for newborn snakes. Communications in Behavioral Biology Part A, 1968, 2, 7-12.
- Burghardt, G. M. Comparative prey-attack studies in newborn snakes of the genus *Thamnophis*. Behaviour 1969, 33, 77-114.
- Burghardt, G. M. Effects of early experience on food preference in chicks. Psychonomic Science 1969, 14, 7-8.
- Burghardt, G. M. Intraspecific geographical variation in chemical food cue preferences of newborn garter snakes (*Thamnophis sirtalis*). Behaviour 1970, 36, 246-257.
- Burghardt, G. M. A supplementary note on the feeding behavior of the lizard *Anolis carolinensis*. Psychonomic Science 1971, 23 (1A), 49.
- Burghardt, G. M. Chemical-cue preferences of newborn snakes: Influence of prenatal maternal experience. Science 1971, 171, 921-923.
- Burghardt, G. M. & Abeshaheen, J. P. Responses to prey chemical stimuli in newly hatched snakes of the genus *Elaphe*. Animal Behaviour 1971, 19, 486-489.
- Fuchs, J. & Burghardt, G. M. Effects of early feeding experience on the responses of garter snakes to food chemicals. Learning and Motivation 1971, 2, 271-279.
- Burghardt, G. M. Chemical release of prey attack: Extension to naive newly hatched lizards, *Eumeces fasciatus*. Copeia 1973, 178-181.
- Burghardt, G. M., Wilcoxon, H. C. & Czaplicki, J. A. Conditioning in garter snakes: Aversion to palatable prey induced by delayed illness. Animal Learning and Behavior 1973, 1, 317-320.
- Froese, A. D. & Burghardt, G. M. Food competition in captive juvenile snapping turtles, *Chelydra serpentina*. Animal Behaviour 1974, 22, 734-739.
- Herzog, Jr., H. A. & Burghardt, G. M. Prey movement and predatory behavior of juvenile western yellow-bellied racers, *Coluber constrictor mormon*. Herpetologica 1974, 30, 285-289.
- Burghardt, G. M. Chemical prey preference polymorphism in newborn garter snakes, *Thamnophis sirtalis*. Behaviour 1975, 52, 202-225.
- Burghardt, G. M. & Pruitt, C. H. The role of the tongue and senses in feeding of newborn garter snakes. Physiology and Behavior 1975, 14, 185-194.
- Froese, A. D. & Burghardt, G. M. A dense natural population of snapping turtles (*Chelydra s. serpentina*). Herpetologica 1975, 31, 204-208.
- Gove, D. & Burghardt, G. M. Responses of ecologically dissimilar populations of the water snake, *Natrix s. sipedon*, to chemical cues from prey. Journal of Chemical Ecology 1975, 1, 25-40.
- Hill, J. O., Pavlik, E. J., Smith, G. L. III, Burghardt, G. M., & Coulson, P. B. Species characteristic responses to catnip by undomesticated felines. Journal of Chemical Ecology 1976, 2, 239-253.
- Hanaway, T. P. & Burghardt, G. M. The development of sexually dimorphic book-carrying behavior. Bulletin of the Psychonomic Society 1976, 7, 267-270.
- Spottswood, P. J. & Burghardt, G. M. The effects of sex, book weight, and grip strength on book-carrying styles. Bulletin of the Psychonomic Society 1976, 8(2), 150-152.
- Burghardt, G. M. Of iguanas and dinosaurs: Social behavior and communication in neonate reptiles. American Zoologist 1977, 17, 177-190.

- Burghardt, G. M., Greene, H. W. & Rand, A. S. Social behavior in hatchling green iguanas: Life at a reptile rookery. Science 1977, 195, 689-691.
- Herzog, H. A. Jr. & Burghardt, G. M. Vocal communication signals in juvenile crocodylians. Zeitschrift für Tierpsychologie 1977, 44, 294-304.
- Greene, H. W., Burghardt, G. M., Dugan, B. A. & Rand, A. S. Predation and the defensive behavior of green iguanas (Reptilia, Lacertilia, Iguanidae). Journal of Herpetology 1978, 12, 169-176.
- Greene, H. W. & Burghardt, G. M. Behavior and phylogeny: Constriction in ancient and modern snakes. Science 1978, 200, 74-77.
- Meredith, M. & Burghardt, G. M. Electrophysiological studies of the tongue and accessory olfactory bulb in garter snakes. Physiology and Behavior 1978, 21, 1001-1008.
- Burghardt, G. M. Closing the circle: The ethology of mind. Behavioral and Brain Sciences 1978, 1, 562-563.
- Weldon, P. J. & Burghardt, G. M. The ophiophage defensive response in crotaline snakes: Extension to new taxa. Journal of Chemical Ecology 1979, 5, 139-48.
- Burghardt, G. M. & Herzog, H. A., Jr. Beyond Conspecifics: Is Brer Rabbit our brother? BioScience 1980, 30, 763-768.
- Dugan, B. A., Rand, A. S., Burghardt, G. M. & Bock, B. C. Interactions between nesting crocodiles and iguanas. Journal of Herpetology 1981, 15, 409-14.
- Burghardt, G. M. Human ethology and animal ethics. Human Ethology Newsletter 1981, 3(3), 8-12.
- Burghardt, G. M. Comparison matters: Curiosity, bears, surplus energy and why reptiles don't play. Behavioral and Brain Sciences 1982, 5, 159-160.
- Drummond, H. & Burghardt, G. M. Geographic variation in the foraging behavior of the garter snake, *Thamnophis elegans*. Behavioral Ecology and Sociobiology 1983, 12, 43-48.
- Henderson, R. W., Binder, M. H. & Burghardt, G. M. Responses of Hispaniolan vine snakes (*Uromacer frenatus*) to prey extracts. Herpetologica 1983, 39, 75-77.
- Bacon, E. S. & Burghardt, G. M. Food preferences in the American black bear: An experimental approach. Int. Conf. Bear Res. Mang. 1983, 5, 102-105.
- Burghardt, G. M. & Denny, D. Effects of prey movement and prey odor on feeding in garter snakes. Zeitschrift für Tierpsychologie 1983, 62, 329-347.
- Burghardt, G. M. Aggregation and species discrimination in newborn snakes. Zeitschrift für Tierpsychologie 1983, 61, 89-101.
- Gove, D. & Burghardt, G. M. Context-correlated parameters of snake and lizard tongue-flicking. Animal Behaviour 1983, 31, 718-723.
- Scudder, R. M. & Burghardt, G. M. A comparative study of defensive behavior in three sympatric species of water snakes. Zeitschrift für Tierpsychologie 1983, 63, 17-26.
- Drummond, H. & Burghardt, G. M. Nocturnal and diurnal nest emergence in green iguanas. Journal of Herpetology 1983, 17, 290-292.
- Weldon, P. J. & Burghardt, G. M. Deception divergence and sexual selection. Zeitschrift für Tierpsychologie 1984, 65, 89-102.

- Allen, B. A., Burghardt, G. M. & York, D. S. Species and sex differences in substrate preference and tongue flick rate in three sympatric species of water snakes (*Nerodia*). Journal of Comparative Psychology 1984, 98, 358-367.
- Burghardt, G. M. Ethology and operant conditioning. Behavioral and Brain Sciences 1984, 7, 683-684. [Reprinted in The canonical papers of B. F. Skinner (A. C. Catania, ed.). Cambridge University Press 1988, pp 413-416.]
- Scudder, R. & Burghardt, G. M. The role of feeding regimens on the growth of neonate broad-banded water snakes, *Nerodia fasciata confluens*, and possible effects on reproduction. Developmental Psychobiology 1985, 18, 203-214.
- Burghardt, G. M. Animal awareness: current perceptions and historical perspective. American Psychologist 1985, 40, 905-919.
- Hammock, M. W. & Burghardt, G. M. *Lampropeltis alterna* (gray-banded kingsnake). An unusual slough. Herpetological Review 1985, 16, 56.
- Rodda, G. H. & Burghardt, G. M. *Iguana iguana* (green iguana). Terrestriality. Herpetological Review 1985, 16, 112.
- Burghardt, G. M. & Rand, A. S. Group size and growth rate in hatchling green iguanas (*Iguana iguana*). Behavioral Ecology and Sociobiology 1985, 18, 101-104.
- Jordan, R. H. & Burghardt, G. M. Employing an ethogram to detect reactivity of black bears (*Ursus americanus*) to the presence of humans. Ethology, 1986, 73, 89-115.
- Herzog, H. A. Jr. & Burghardt, G. M. The development of antipredator responses in snakes: I. Defensive and open-field behaviors in newborns and adults of three species of garter snakes (*Thamnophis melanogaster*, *T. sirtalis*, *T. butleri*). Journal of Comparative Psychology 1986, 100, 372- 379.
- Herzog, H. A. Jr. & Burghardt, G. M. Are we ready for a theory of human-animal relations? Anthrozoos 1987, 1, 145-146.
- Scudder-Davis, R. M. & Burghardt, G. M. Diet and growth in juveniles of the garter snakes *Thamnophis sirtalis infernalis* and *Thamnophis radix radix*. Growth 1987, 51, 74-85.
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