

CURRICULUM VITAE

NANCY B. SIMMONS

Department of Mammalogy
Division of Vertebrate Zoology
American Museum of Natural History
Central Park West at 79th Street
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PERSONAL DATA

Born: 10 July 1959

CURRENT POSITIONS

Chairman, Division of Vertebrate Zoology, American Museum of Natural History
(AMNH; 2000--present)
Curator-in-Charge, Department of Mammalogy, Division of Vertebrate Zoology,
AMNH (1999--present)
Curator, Department of Mammalogy, Division of Vertebrate Zoology, AMNH
(2004—present; Associate Curator 1998—2004; Assistant Curator 1993—
1998)
Professor, Richard Gilder Graduate School, American Museum of Natural History
(2008—present)
Adjunct Faculty, Graduate Program in Ecology and Evolutionary Biology,
Columbia University (1997--present)
Adjunct Associate Professor, Ph.D. Program in Biology, City University of New
York Graduate School (1993--present)

EDUCATION

Ph.D. 1989, University of California, Berkeley, California
Ph.C. 1985, University of California, Berkeley, California
B.A. 1981, Cum Laude, Pomona College, Claremont, California

Special Courses Completed:

1990 Four-week course in scanning electron microscopy (AMNH)
1989 Six-week course in optical microscopy (University of California)
1984 Fifteen-week course in scientific illustration (University of
California)

PREVIOUS POSITIONS

1991--1993 Research Scientist, AMNH Department of Mammalogy
1991--1993 Adjunct Assistant Professor, Department of Natural Sciences,
Baruch College, City University of New York

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PREVIOUS POSITIONS (continued)

- 1989--1991 Kalbfleisch/Hoffman Research Fellow, AMNH Department of Mammalogy
- 1989 Lecturer, Department of Biological Sciences, San Francisco State University
- 1987--1989 Instructor, Department of Paleontology, University of California, Berkeley
- 1988 Lecturer, Department of Zoology, University of California, Berkeley
- 1986--1987 Teaching Assistant and Associate, Department of Zoology, University of California, Berkeley
- 1982--1986 Senior Museum Preparator, University of California Museum of Paleontology

GRANTS FUNDED

- 2006—2011 National Science Foundation AToL Program “AToL: Collaborative Research: Resolving Mammalian Phylogeny with Genomic and Morphological Approaches.” PD = Mike Novacek, CoPIs = Jin Meng and John Flynn. \$861,588.
- 2004--2006 National Science Foundation Dissertation Grant "Dissertation Research: Sources of Neotropical bat diversity: Have cave-rich areas been centers of cave bat speciation? " (Dissertation grant for Adrian Tejedor) \$9,585.
- 2004--2005 National Science Foundation Biological Research Collections Grant “Support for meeting and workshop on emergency preparedness, response, and salvage in natural history collections” (CoPIs = Christopher Norris and Lisa Kronthal) \$9,912
- 2002—2005 National Aeronautics and Space Administration Grant "New ways to see, understand, teach and conserve biological diversity." (PD = Darrel Frost; I am PI for the “Vertebrate Zoology Database” component of the grant). \$410,462.
- 2002--2004 National Science Foundation Dissertation Grant "Doctoral Dissertation: Historical biogeography of the Antilles: earth history and phylogenetics of endemic chiropteran taxa" (Dissertation grant for Liliana Davolos; CoPI = Rob DeSalle). \$9,470.
- 2000--2004 National Science Foundation Biological Research Collections Grant "Improvement of specimen storage in the mammal collections of the American Museum of Natural History" (CoPI = R. S. Voss). \$188,845.
- 2001--2003 National Geographic Society Grant "Rainforest mammal diversity and Matses ethnozoology in the Peruvian Amazon." (For fieldwork in 2002 and 2003; PD = Rob Voss). \$25,000.

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GRANTS FUNDED (continued)

- 1999--2003 National Science Foundation Research Grant "Collaborative Research: higher level relationships among microchiropteran bats based on mitochondrial gene sequences, morphology, and echolocation call structure." \$123,796.
- 1999 AMNH Center for Biodiversity and Conservation Research Grant "Rainforest mammal diversity and Matses ethnozoology in the Peruvian Amazon: Part 2." (CoPIs = R. S. Voss and D. W. Fleck)
- 1999 Columbia University Center for Environmental Research and Conservation Preliminary Implementation Grant "Plants dispersed by bat in the lowland forests of central French Guiana" (CoPIs = S. Mori, R. Voss, and E. Dierenfeld)
- 1998 AMNH Center for Biodiversity and Conservation Research Grant "Rainforest mammal diversity and Matses ethnozoology in the Peruvian Amazon." (CoPIs = R. S. Voss and D. W. Fleck)
- 1991--1996 National Science Foundation Research Grant "Higher-level phylogeny of Chiroptera: evidence from the postcranial musculoskeletal system" (Co-PI = M. J. Novacek)
- 1993--1994 National Geographic Society Grant "Mammalian faunal inventory research at Paracou (French Guiana)" (PD/Co-PI = R. S. Voss)
- 1988 University of California Miscellaneous Student Aid Grant (for travel to present talk at Society of Vertebrate Paleontology Meetings)
- 1987 American Museum of Natural History Collection Study Grant
- 1987 University of California Miscellaneous Student Aid Grant (for travel to present talk at Society of Vertebrate Paleontology)
- 1986 University of California Education Improvement Grant (to design and teach a new undergraduate paleontology course, "Vertebrate Adaptations")

AWARDS AND FELLOWSHIPS

- 2008 Gerrit S. Miller Award (from the North American Society for Bat Research for outstanding contributions in the field of chiropteran biology)
- 1989--1991 American Museum of Natural History Kalbfleisch/Hoffman Postdoctoral Research Fellowship
- 1989 Outstanding Graduate Student Instructor Award, University of California
- 1988 Romer Prize, Society of Vertebrate Paleontology (for best student paper presented at annual meetings)
- 1988 Stirton Award, Department of Paleontology, University of California, Berkeley (for excellence in teaching and research)

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AWARDS AND FELLOWSHIPS (continued)

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| 1986 | Honorable Mention, Romer Prize, Society of Vertebrate Paleontology (for best student paper presented at annual meetings) |
| 1983--1986 | National Science Foundation Graduate Fellowship |
| 1982--1983 | University of California Graduate Fellowship |
| 1981 | Phi Beta Kappa, Pomona College |

TEACHING EXPERIENCE

Major Advisor for Ph.D. Students:

- | | |
|------------|---|
| 1999--2008 | Valeria Taveres, City University of New York EEB program, degree awarded May 2008 |
| 2000--2006 | Adrian Tejedor, City University of New York EEB program, degree awarded December 2006 |
| 1998--2004 | Liliana Davalos, Columbia University CERC/E3B, degree awarded May 2004 |
| 1995--2003 | Andrea Wetterer, Columbia University CERC/E3B, degree awarded May 2003 |

Major Advisor for Masters Students:

- | | |
|------------|---|
| 2003--2006 | Scott Carrdiff, Columbia University CERC/E3B, degree awarded May 2006 |
|------------|---|

Ph.D Committee Member for Students:

- | | |
|--------------|---|
| 2006—present | Esther Quintero, Columbia University E3B program |
| 2004—present | Cullen Geiselman, Columbia University E3B program |
| 2004—2008 | Kevin Olival, Columbia University E3B program |
| 2003—2006 | Rasit Bilgin, Columbia University E3B program |
| 2002—2006 | Karen Samonds, SUNY Stony Brook Ph.D. Program in Anatomical Sciences, degree awarded May 2006 |
| 2002--2004 | Sushma Reddy, City University of New York EEB program, degree awarded December 2004 |
| 1996--2004 | Marcelo Weksler, City University of New York EEB program, degree awarded December 2004 |
| 1998--2003 | Amy Russell, University of Tennessee at Knoxville Ph.D. Program in Ecology and Evolutionary Biology, degree awarded August 2003 |
| 1997--2003 | Ana Luz Porzecanski, Columbia University CERC/E3B, degree awarded May 2003 |
| 1996--2003 | Victor Pacheco, City University of New York EEB program, degree awarded May 2003 |

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- 1999--2001 Jonathan Geisler, Columbia University Vertebrate Paleontology Ph.D. Program, degree awarded May 2001
- 1998--2000 Rebecca Kirchner, New York University Ph.D. Program in Genetics, no degree awarded

Postdoctoral Fellows Advised

- 2002--present AMNH Postdoctoral Research Program, Advisor for Research Fellow Dr. Norberto Giannini (full time 2002-2007; part time 2007-present)
- 2007--2009 AMNH Postdoctoral Research Program, Advisor for Research Fellow Dr. Francisca Almeida
- 2001 AMNH Postdoctoral Research Assistant, Supervisor for Dr. Jonathan Geisler
- 1997--1998 AMNH Postdoctoral Research Program, Advisor for Research Fellow Dr. Albert Ditchfield
- 1995--1997 AMNH Postdoctoral Research Program, Advisor for Research Fellow Dr. William Schutt

Undergraduate Teaching and Mentoring

- 1992--present AMNH Research Experiences for Undergraduates Program, Intern Advisor in all years except 2003 and 2006-2008
- 1991--1992 Baruch College (City University of New York), Adjunct Assistant Professor: Biology 1003, "A Survey of the Living World" (Fall 1991, Spring 1992)
- 1991 AMNH/CUNY "Courses for Teachers" Program, Instructor: AMNH 6023, "A Survey of Mammals of the World" (Spring 1991)
- 1989 San Francisco State University, Lecturer: Biology 492, "Comparative Vertebrate Anatomy" (Spring 1989)
- 1988 University of California at Berkeley, Department of Zoology, Lecturer: Zoology 106, "Evolutionary and Functional Vertebrate Anatomy" (Spring 1988; Teaching Assistant in 1986, 1987)
- 1988 University Of California Extension, Instructor: Paleontology XB2H, "Vertebrate Adaptations" (Summer, 1988)
- 1987--1989 University of California at Berkeley, Department of Paleontology, Instructor: Paleontology 2A, "Ecology and Evolution of Dinosaurs" (Summer 1989)
Paleontology 2C, "The Age of Mammals" (Spring 1989)
Paleontology 2H, "Vertebrate Adaptations" (Summer and Fall 1987, 1988)

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FIELD EXPERIENCE

- 2009 One week in Tobago capturing small mammals
- 2007 Two weeks in Malaysia and Thailand; captured pteropidids for tissue samples, use of harp traps to capture hipposiderids and rhinolophids
- 2002 Two weeks in Belize; survey of bat diversity and methods of using harp traps to capture bats.
- 1999 Three weeks in French Guiana; study of seed dispersal by bats in a lowland tropical rainforest
- 1994 Two months in French Guiana; continuation of survey of mammal diversity at a single Neotropical rainforest locality; emphasis bats and assessment of systematic biases introduced by different collecting techniques
- 1992 Two months in French Guiana; continuation of survey of mammal diversity at a single Neotropical rainforest locality
- 1991 Two months in French Guiana; survey of mammal diversity in a Neotropical lowland rainforest; collection of small mammals with emphasis on bats
- 1987 One month in Petrified Forest National Park (Arizona); Assistant Field Director for University of California Research Expeditions program "Field Paleontology: Life at The Beginning of the Age Of Dinosaurs"
- 1986 One week in Sierra Nevada Mountains (California); trapping small mammals
- 1986 Two weeks in western Nevada; collection of Barstovian and Clarendonian mammals
- 1985 One month in Petrified Forest National Park (Arizona); collection of Late Triassic marine and terrestrial vertebrates
- 1985 Two weeks in western Nevada; collection of Miocene mammals, fish, and plants
- 1984 One month in Hell Creek Badlands (Montana); geologic mapping, collection of LateCretaceous and Paleocene vertebrates
- 1983 Six weeks in Hell Creek Badlands (Montana); collection of Late Cretaceous and Paleocene vertebrates
- 1981 Three months at Lamb Spring (Colorado); excavation of archaeological site containing mammoth and bison remains
- 1981 One month field study in San Gabriel Mountains (California); mark and recapture study of habitat utilization of Dipodomys (kangaroo rats) in fire succession communities
- 1980 Three months at Lamb Spring (Colorado); excavation of archaeological site containing mammoth and bison remains
- 1979 Three months at Dolores Project (Colorado); attended archaeological field school; prepared recent vertebrate skeletons

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PROFESSIONAL ACTIVITIES

- 2009—present Steering Committee Member, VertNet
(<http://vertnet.org/index.php>; VertNet is a global database network linking vertebrate museum collections around the world)
- 2009—present Steering Committee Member, “Future of Systematics” Initiative (NSF funded project to assess the needs and goals of the field of systematics)
- 2002--present Advisory Panel on Bat Taxonomy, Eurobats Committee Mammalogists
- 1999--present Editorial Board Member, Acta Chiropterologica
- 1997--present Checklist Committee Member, American Society of Mammalogists
- 1996--present Editorial Board Member, Journal of Mammalian Evolution
- 2004--2007 Board of Directors Member, North American Symposium for Bat Research
- 2004--2007 Treasurer, North American Symposium for Bat Research
- 2001--2007 American Society of Mammalogists Nomenclature Committee Member
- 2003--2004 Co-chair, Local Organizing Committee for the 2004 meeting of the Society for the Preservation of Natural History Collections (SPNHC)
- 2001--2003 Treasurer, North American Symposium for Bat Research
- 2001--2003 Advisory Committee Member, "First in Flight: Aerial Animals" Exhibition (North Carolina Museum of Natural Sciences)
- 2000--2003 Board of Directors Member, North American Symposium for Bat Research
- 2002 Working Group Member, Global Bat Biodiversity Initiative (co-sponsored by Conservation International and Bat Conservation International)
- 1998--2001 Editorial Board Member and Subject Editor, Biotropica
- 1996--2001 Systematic Collections Committee Member, American Society of Mammalogists
- 1994--2001 Secretary, Society for the Study of Mammalian Evolution (Acting Secretary, 1994--1995; Secretary, 1996--2001)
- 2000 National Science Foundation Biological Research Collections Advisory Panel Member
- 1997--1998 Society of Vertebrate Paleontology Program Committee
- 1995 National Science Foundation Systematics Advisory Panel Member (served on panels in Spring and Fall 1995)
- 1992--1993 Co-chair for Public Education Committee, Systematics Agenda 2000
- 1978--1988 Member, Society of Vertebrate Paleontology Publications Promotion Committee

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PROFESSIONAL ACTIVITIES

Symposia Organized:

- 2007 "Fossils, molecules, and morphology: evolutionary history of bats," 2007 meeting of the Society of Vertebrate Paleontology (half-day symposium; co-organized with Gregg Gunnell and Thomas Eiting; contributions to be published in an edited volume by Cambridge University Press)
- 2001 "Methods of Analyzing Faunal Composition and Community Structure," 12th International Bat Research Conference, Malaysia (half-day symposium; co-organized with Elisabeth Kalko)
- 1998 "Evolution of Echolocation and Flight Behavior in Bats," 11th International Bat Research Conference, Brasilia, Brazil (half-day symposium; co-organized with Elisabeth Kalko)
- 1995 "Phylogeny and Evolution of Bats," 10th International Bat Research Conference, Boston University (half-day symposium; contributions published by Smithsonian Institution Press; co-organized with Susanne Hand)

Reviewed research proposals for: National Science Foundation, National Geographic Society

Reviewed manuscripts for: Science, Biotropica, Journal of Mammalogy, Journal of Mammalian Evolution, Journal of Comparative Biology, Fieldiana, Acta Anatomica, Journal of Morphology, Cladistics, Journal of Vertebrate Paleontology, Studies on Neotropical Fauna and Environment, AMNH Novitates and Bulletin, Systematic Biology, Mammalia, Journal of Human Evolution, Acta Chiropterologica, Cornell University Press, Smithsonian Institution Press, Wildlife Conservation Society

Society Memberships:

- American Society of Mammalogists
- Society for the Preservation of Natural History Collections
- Society for the Study of Mammalian Evolution
- Society of Systematic Biology
- Society of Vertebrate Paleontology
- Bat Conservation International

INSTITUTIONAL SERVICE AT AMERICAN MUSEUM OF NATURAL HISTORY

Administrative Positions:

- Chairman, Division of Vertebrate Zoology (2000--present)
- Curator-in-Charge, Department of Mammalogy, AMNH (1999--present)

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Senate of the Scientific Staff:

- Senate Executive Committee Member (1998--2006)
- Senate Education Committee (2004—2006)
- Senate Library Committee Member (1995--1996, 1998--2004)
- Senate Nominating Committee Member (2006)
- Senate Ad Hoc Committee on Graduate and Postdoctoral Programs
(Chair, 2004)
- Vice-Chairman of the Senate (1998--2000)

Standing Committees, Task Forces, Ad Hoc Committees:

- Chapman Committee (1999--present)
- Lerner-Gray Grant Committee Member (1996, 1998--present)
- Strategic Planning Committee (2000—2002; 2004; 2007; 2009--present)
- Graduate School Task Force (2004—2006)
- Ad Hoc Committee on Conflict of Interest (2006)
- Appointments and Promotions Committee (Chair, 1999—2000, 2004—
2005; member, 2000-2001, 2005--2006)
- Theodore Roosevelt Memorial Fund Committee Member (1998—2000,
2006)
- Grants and Fellowships Committee (Chairman, 1995--1997; member,
1994, 2000, 2003, 2007)
- Public Programs Committee Member (1995--2000)
- Security Task Force (1999)
- Exhibition and Education Planning Committee Member (1994--1996)

Organizing Committee for Professional Meeting Hosted at AMNH:

- Co-chair, Local Organizing Committee for the 2004 meeting of the
Society for the Preservation of Natural History Collections (2003-
present)

Search Committees:

- 2008 Member of Search Committee for Invertebrates Curator (Estafania
Rodriguez hired)
- 2006 Chair of Search Committee for Herpetology Curator (no hire)
- 2004 Member of Search Committee for Microbial Systematics Curator
(Susan Perkins hired)
- 2004 Member of Search Committee for Astrophysics Curator
(Ben Oppenheimer hired)
- 2003 Member of Search Committee for Mammal Paleontology Curator
(John Flynn hired)
- 2003 Member of Search Committee for Microbial Systematics Curator
(no hire)
- 2001 Chair of Search Committee for Ichthyology Curator (John Sparks
hired)

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INSTITUTIONAL SERVICE AT AMERICAN MUSEUM OF NATURAL HISTORY

Search Committees (continued):

- 2001 Member of Search Committee for Ford Foundation Fellow (Department of Anthropology)
- 2000 Member of Search Committee for Assistant Director of Library Reference Services (no hire)
- 1999 Member of Search Committee for Vertebrate Paleontology Curator (Jin Meng hired)
- 1998 Member of Search Committee for Ornithology Curator (no hire)
- 1997 Member of Luce Postdoctoral Fellowship Committee (Department of Anthropology; Alexia Bloch hired)
- 1996 Member of Search Committee for Invertebrates Curator (Paula Mikkelson hired)
- 1995 Member of Search Committee for Ichthyology Curator (Scott Shaeffer hired)
- 1995 Member of Search Committee for Entomology Curator (Jim Miller hired)
- 1995 Member of Search Committee for Dean of Public Programs (no hire)
- 1994 Member of Search Committee for Invertebrates Curator (Alan Harvey hired)

Public Education:

- 2008 Subject of a 3-part video series produced by Scientific American “Beyond Twilight: Evolution of Bats”
<http://www.sciam.com/article.cfm?id=bats-beyond-twilight>
- 2008 Published article on bat evolution in Scientific American: “Taking Wing” (December 2008)
- 2008 Interviewed on “The Leonard Lopate Show” on NPR about bat evolution
- 2007 Subject of short TV feature “Bats” on CUNY “Study with the Best” series (DVD available)
- 2006 Subject of New York Times video on bats: available at
<http://video.on.nytimes.com>
- 2006 Worked with the AMNH Education Department and the National Center for Science Literacy, Education and Technology to produce two articles on my research on bats for Scholastic’s “Superscience” and “Science World” magazines for children.
<http://www.amnh.org/education/resources/scholastic/bats/>
- 2006 Worked with the AMNH Education Department and the National Center for Science Literacy, Education and Technology to design a web site on bats for Scholastic:
<http://teacher.scholastic.com/activities/explorations/bats/>

- 2005 Worked with the AMNH Education Department and the National Center for Science Literacy, Education and Technology on a “Meet the Scientist” profile of myself for use in MacMillan/McGraw Hill science text books

Special Programs:

- 2004 Sciend at Work Luncheon: “From Flying Foxes to Vampires: Bat Research and Collections in the Department of Mammalogy”
- 1995 Science at Work Supper: “Studying Mammal Diversity in French Guiana”
- 1992 American Museum of Natural History Members Evening, "Neotropical Bat Diversity and Global Warming"
- 1992 Behind-the-Scenes Presentation, "The Use of Collection Resources in Studying Bat Evolution"
- 1991 Visiting Committee Meeting, "Origin and Evolution of Bats: Did Flight Evolve Twice in Mammals?"

Other Activities:

- Judge for “Young Naturalists” essay contest sponsored by AMNH (1998, 2001, 2008, 2009)