

# SCOTT C. PEDERSEN

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## EDUCATION

- 1993 Ph.D., University of Nebraska - Lincoln, School of Biological Sciences
- 1988 M.A., University of Colorado - Boulder, Department of EPO-Biology
- 1984 B.A., University of Colorado - Boulder, Department of EPO-Biology

## PROFESSIONAL EXPERIENCE

- 2014+ Professor, Dept. of Biology & Microbiology & adjunct in the Dept. of Natural Resource Management
- 04-14 Associate Professor, Department of Biology & Microbiology, SDSU
- 99-03 Assistant Professor, Department of Biology & Microbiology, South Dakota State University
- 97-99 Research Associate (NIH), Department of Orthodontics, University of Washington – Seattle
- 94-97 NRSA Post-Doctoral Fellow (NIDR), Department of Orthodontics, University of Washington - Seattle
- 93-94 Assistant Professor, American University of the Caribbean - School of Medicine, Montserrat W.I.
  
- 2007+ Research Associate, Division of Zoology, Museum of Texas Tech University – Lubbock
- 1999+ Curator, Division of Mammals, South Dakota State University
- 97-99 Research Associate, Division of Mammals, University of Washington Burke Museum - Seattle
- 1993+ Research Associate, Division of Zoology, University of Nebraska State Museum - Lincoln
  
- 91-93 Instructor, Nebraska Scholars Institute: AP courses for HS students in Anatomy & Mammalogy
- 90-93 Gross Anatomy Lab Coordinator: University of Nebraska - Lincoln, School of Biological Sciences
- 89-93 Technical Advisor: Totten Center for Biosystematic Technology, UNSM Morphometrics Lab
- 88-93 Graduate Teaching Assistant: UNL, Human anatomy & General biology
- 86-88 Graduate Teaching Assistant: CU-Boulder, Human anatomy
- 85-86 Curatorial Assistant, Division of Mammals, University of Colorado Museum

## SPECIALIZED TEACHING & EXPERTISE

Gross anatomy, Vertebrate evolution, & Vertebrate embryology

## PROFESSIONAL MEMBERSHIPS

- 2011+ Human Anatomy and Physiology Society
- 1999+ Bat Working Group - South Dakota (Vice-Chair)
- 1987+ North American Society for Bat Research
- 1984+ Society for Integrative & Comparative Biology
- 1984+ American Society of Mammalogists
  
- '98-02 Washington State Bat Working Group (Steering Committee)
- '97-04 Bats Northwest (Research Advisory Committee)
- '93-98 Society for the Study of Mammalian Evolution
- '91-04 Society for the Study of Evolution

## PEER-REVIEWED PAPERS (n = 29)

- 2015 He W, Pedersen S, Gupta A, Simmons J, & Müller R. Lancet dynamics in greater horseshoe bats, *Rhinolophus ferrumequinum*. *PLoS One*. 2015;10(4):e0121700
- 2012 Pedersen SC, Popowicz TE, Kwiecinski GG, & Knudsen DEB. Pathology in phyllostomid fruit bats associated with volcanic ash fall on Montserrat. *J. Mamm.* 93:1380-1392.
- 2012 Larsen RJ, Larsen PA, Genoways HH, Catzeflis FM, Geluso K, Kwiecinski GG, Pedersen SC, Simal F, & Baker RJ. Evolutionary history of Caribbean *Myotis*: with evidence of a 3rd L-A endemic. *Mamm. Biol.* 77:124-134.
- 2011 Larsen PA, Siles L, Pedersen SC, & Kwiecinski GG. A new species of *Micronycteris* from St. Vincent, Lesser Antilles. *Mamm. Biol.*, 76:267-700.
- 2011 Genoways HH, Larsen RJ, Pedersen SC, Kwiecinski GG, & Larsen PA. (2012) Bats of Barbados. *Chiroptera Neotropical* 17:963-988.
- 2010 Lindsay KC, Kwiecinski GG, Pedersen SC, Bacle J-P, & Genoways HH. First record of *Ardops nicholli* from Antigua, Lesser Antilles. *Mammalia* 74:93-95.
- 2010 Genoways HH, Kwiecinski GG, Larsen PA, Pedersen SC, Larsen RJ, Hoffman JD, de Silva M, Phillips CJ, & Baker RJ. Bats of the Grenadines, West Indies & placement of Koopman's line. *Chiro. Neotrop*, 16:501-521.
- 2007 Pedersen SC, Larsen PA, Genoways HH, Morton MN, Lindsay KC, & Cindric J. Bats of Barbuda, Northern Lesser Antilles. *Occ. Papers, Museum of Texas Tech University*, 271:1-20.
- 2007 Larsen RJ, Boegler KA, Genoways HH, Masefield WP, Kirsch RA, & Pedersen SC. Mist netting bias, species accumulation curves, & rediscovery of two bats on MNI. *Acta Chiro.*, 9:423-435.
- 2007 Larsen PA, Hooper SR, Bozeman MC, Pedersen SC, Genoways HH, Phillips CJ, Pumo DE, & Baker RJ. Phylogenetics & phylogeography of *A. jamaicensis* based on cyt-b DNA sequences. *J. Mamm.*, 88:712-727.
- 2007 Genoways HH, Pedersen SC, Larsen PA, Kwiecinski GG, & Huebschman JJ. Bats of St. Martin, French West Indies/St. Maarten, Netherlands Antilles. *Mast. Neotrop.* 14(2):169-188.
- 2007 Genoways HH, Larsen PA, Pedersen SC, & Huebschman JJ. Bats of Saba, Northern Lesser Antilles. *Acta Chiropterologica*, 9:91-114.
- 2007 Genoways HH, Pedersen SC, Phillips CJ, & Gordon LK. Bats from Anguilla, Northern Lesser Antilles. *Occ. Papers, Museum of Texas Tech University*, 270:1-12.
- 2006 Pedersen SC, Genoways GG, Morton MN, Swier VJ, Larsen PA, Lindsay KC, Adams RA, & Appino JD. Bats of Antigua, Northern Lesser Antilles *Occ. Papers, Museum of Texas Tech University*, 249:1-18.
- 2006 Larsen PA, Genoways HH, & Pedersen SC. New Records of Bats from Saint Barthélemy (St. Barts), French West Indies. *Mammalia* 70:321-325.
- 2005 Pedersen SC, Genoways HH, Morton MN, Kwiecinski GG, & Courts SE. Bats from St. Kitts, Northern Lesser Antilles. *Carib. J. Sci.* 41:4:744-760.
- 2005 Herring SW, Pedersen SC, & Huang X. Ontogeny of bone strain: the zygomatic arch in pigs. *J. Exp. Biol.* 208:4509-4521.
- 2004 Carstens BC, Sullivan J, Davalos LM, Larsen PA, & Pedersen SC. Exploring population genetic structure in three species of Lesser Antillean bats. *Mol. Ecology*, 13:2557-2566.
- 2003 Pedersen SC, Genoways HH, Morton MN, Johnson JW, & Courts SE. Bats of Nevis, Northern Lesser Antilles. *Acta Chiropterologica*, 5:251-267.
- 2003 Adams RA, Pedersen SC, Thibault KM, Jadin J, & Petru B. Calcium as a limiting resource to insectivorous bats? *Journal of Zoology, London*, 260:189-194.
- 1998 Pedersen SC & Anton SC. Biconal synostosis in a child from historic Omaha cemetery 25DK10. *AJPA*, 105:369-376.
- 1998 Pedersen SC. Morphometric analysis of the chiropteran skull with regard to mode of echolocation. *J. Mamm.*, 79:91-103.
- 1996 Pedersen SC. Skull growth & the presence of auxiliary fontanels in rhinolophid bats. *Zoomorphology*, 116:205-212.
- 1996 Pedersen SC, Genoways HH, & Freeman PW. Bats from Montserrat with comments concerning the affects of Hurricane Hugo. *Carib. J. Sci.*, 32:206-213.
- 1995 Pedersen SC. Cephalometric correlates of echolocation in the Chiroptera II: Fetal development. *J. Morph.*, 225:107-123.
- 1993 Pedersen SC. Skull Growth in cannibalistic Tiger salamanders, *Ambystoma tigrinum*. *SW. Nat.*, 38:316-324.
- 1993 Pedersen SC. Cephalometric correlates of echolocation in the Chiroptera. *J. Morph.*, 218:85-98.
- 1993 Fenton MB, Audet D, Dunning DC, Long J, Merriman CB, Pearl D, Syme DM, Adkins B, Pedersen SC, & Wohlgenant T. Activity patterns & roost selection by *Noctilio albiventris* in Costa Rica. *J. Mamm.*, 74:607-613.
- 1991 Pedersen SC. Dental morphology of the cannibal morph in the Tiger salamander, *A. tigrinum*. *Amphibia-Reptilia*, 12:1-14.

## MANUSCRIPTS SUBMITTED OR IN PREPARATION

- Larsen R, Larsen P, Phillips C, Genoways H, Kwiecinski G, Pedersen S, Phillips C, & Baker R. Patterns of morphological and molecular evolution in the Antillean tree bat, *Ardops nicholli* (Chiroptera: Phyllostomidae). Submitted *Biol. J. Linnean Soc.*
- Kwiecinski et al., Bats of St. Vincent, Lesser Antilles
- Pedersen et al., Bats of St. Lucia, Lesser Antilles
- Larsen et al., Bats of St. Eustatius, Northern Lesser Antilles

## CO-EDITED BOOKS (n = 2)

- 2013 Adams RA & Pedersen SC. Co-editors: *Bat Evolution, Ecology, & Conservation*. Springer Press. 547p
- 2000 Adams RA & Pedersen SC. Co-editors: *Ontogeny, Functional Ecology & Evolution of Bats*. Cambridge Univ. Press. 398p

## BOOK CHAPTERS (n = 9)

- 2013 Pedersen SC & Müller R. Noseleaves & nasal emission. 72-91p. in: Bat Evolution, Ecology, & Conservation. Springer Press.
- 2013 Pedersen SC, Genoways HH, Kwiecinski GG, Larsen PA, & Larsen RJ. Biodiversity, biogeography, and conservation of bats in the Lesser Antilles. Pp. 62-73, 330, in Biodiversité insulaire: la flore, la faune et l'homme dans les Petites Antilles, eds. J.-L. Vernier and M. Burac. France: Schoelchers, Martinique, Direction de l'Environnement, de l'Aménagement et du Logement de Martinique et Université des Antilles et de la Guyane, 335 pp.
- 2012 Pedersen SC & Timm DW. Cephalometry & evolutionary constraint in bats. in: Evolutionary History of Bats: Fossils, Molecules & Morphology. (eds) G. Gunnell & N. Simmons, Cambridge Univ. Press, pp. 470-499.
- 2010 Pedersen SC, Kwiecinski GG, Larsen PA, Morton MN, Adams RA, Genoways HH, & Swier VJ. Population fluctuation in response to hurricanes & volcanoes, pp. 302-340 in: Island bats: Ecology, Evolution & Conservation. (eds) Fleming & Racey. University of Chicago Press, Chicago. 549 pp.
- 2009 Morton MM & Pedersen SC. Mammals of Montserrat. In: Montserrat: Field guide to the Centre Hills. (ed.) Holiday. West Indies Publ.
- 2008 Pedersen SC, Young RP, Morton MN, & Masefield WP. Bats of the Centre Hills & Montserrat. In: A Biodiversity Assessment of the Centre Hills, Montserrat. Durrell Conservation Monograph #1 (ed.) Young. p. 130-138. Durrell Wildlife Conservation Trust.
- 2006 Herring SW & Pedersen SC. Bone strain in infant mammals & the orientation of bone growth. pp. 91-98. In: Biological Mechanisms of Tooth Eruption, Resorption & Movement, ed. Davidovitch Z, et al., Printing House, Bangkok, Thailand,
- 2000 Pedersen SC. Skull growth & the acoustical axis of the head in bats. pp.174-213.in: Ontogeny, Functional Ecology & Evolution of bats, Cambridge Univ. Press. (eds) Adams & Pedersen.
- 2000 Adams RA & Pedersen SP. Integrating ontogeny into ecological & evolutionary investigations. pp. 1-8.in: Ontogeny, Functional Ecology & Evolution of bats, Cambridge Univ. Press. (eds) Adams & Pedersen.

## ARTICLES OR BOOK CHAPTERS FOR THE GENERAL PUBLIC (n = 9)

- 2013 Pedersen SC. Volcanoes & Fruit Bats - Fear & loafing on Montserrat. Pp. 167-180. in: Into the Night (ed) R. Adams. University of Colorado Press, 206 pp.
- 2004 Pedersen SC, Tigner J, & Smith A. Living with bats. SD Conservation Digest 71:10-15.
- 2003 Phelps BJ, Wogen EC, & Pedersen SC. Dead Silence. Skeptic, 10:2:15-16.
- 2003 Pedersen SC. Earth Wind, & Fire, the Story of the Fruitbats of Montserrat. Natural History 112:20-24.
- 2003 Pedersen SC & Morton MN. Field Guide: Bats of the Northern Lesser Antilles.
- 1998 Pedersen SC & Glover J. Bats in City Parks. Washington Park Arboretum Bulletin, 60:10-12
- 1998 Pedersen SC, Bats in military service: USAF, RAF & Commonwealth Air Forces. Bat Research 38:59-68.
- 1996 Pedersen SC & Siegfried D. Bats in military service: United States Naval & USMC aviation. Bat Research 37:42-48.
- 1994 Adams RA & Pedersen SC. Development on the wing. Natural History 103:1:49-54.

## REPORTS

- 2015 Lindsay et al., Bat roosts of Antigua, Barbuda, and Redonda – their status and conservation. United Nations Environment Programme (UNEP) and the Global Environmental Facility (GEF).
- 2004 Kiesow et al., South Dakota Bat Management Plan - SD-GFP & SD-BWG
- 2001 Pedersen et al., Bat survey of Brookings County, South Dakota. Report to SD-GFP.
- 1997 Pedersen & Glover, Technical Report: Biodiversity analysis: Bats in the Washington Park Arboretum, Seattle.

## ABSTRACTS (n = 58) provided upon request

## INVITED SYMPOSIUM TALKS & INVITED LECTURES

- 2010 Biodiversity, Biogeography & Conservation of bats. DIREN & UAG, Martinique, Lesser Antilles
- 2007 Cephalometry and packaging of the head in bats – SVP Evolution History of Bats, Austin TX.
- 2004 Fruit bats of MNI-Population fluctuation in response to hurricanes & volcanoes: ATBC, Miami, FL
- 2014 Non-linear model of the nasopharynx in rhinolophid bats. School of Physics, Shandong University, Jinan
- 2009 Bats of MNI-Biodiversity issues in the Centre Hills Montserrat. Durrell Conservation (UK) MALHE, MNI
- 2009 Morphological constraints on the evolution of rhinolophid skulls. School of Physics, Shandong University, Jinan
- 2007 Bat survey efforts in the Lesser Antilles. University of the West Indies – Barbados.
- 2007 Bat biodiversity in the Lesser Antilles. TTU – Departmental Evolution Seminar.
- 2004 Bat Biology & Behavior – SD Pest Control (PCO) Recertification Courses (04, 06-07, 09) – Brookings SD
- 2003 Current status of fruit bat populations on EUX - Environmental awareness group - St. Eustatius, WI
- 2003 Biogeographic patterns in the Lesser Antilles - Environmental awareness group - Antigua, WI
- 2002 Blown in, Blown off, and Blown up - the bats of Montserrat - SDSU 2002 Hansen Lecture Series
- 2002 Biogeographic patterns in the Lesser Antilles - Environmental awareness group - St. Eustatius, WI
- 1999 Craniofacial growth and the acoustic axis of the head in bats. Dept. Biology, University of Cincinnati.
- 1998 Bat Biology and Behavior - Washington State DOH - Rabies Prevention and Control Workshop.
- 1997 Skull growth and the acoustical axis of the head in bats - Dept. Anatomy, NEO College of Medicine.

## EXTERNAL GRANTS & AWARDS

2014 Research & Travel award: National NSF-China & School of Physics, Shandong University, Jinan (via PI Rolf Mueller)  
2013 Educational Fellow in the Life Sciences 2013. National Academies NorthStar Institute (HHMI)  
10-14 USFWS - Occupancy & Artificial Roost Selection in South Dakota (research support to S. Lewis)  
2010 URIEL Wind Inc. - Affect of wind farm development on bat migration Eastern SD.  
2009 Travel award: National NSF-China (Project 10774092: via PI Rolf Mueller)  
2009 Research & Travel award: Ministry of Education, P.R. China (Projects 985 & 211: via PI Rolf Mueller)  
2005 Durrell Wildlife - Centre Hills Biodiversity Project – Montserrat BWI  
2002 SD Non-Game Wildlife Conservation Program - Bats (research support to B. Bales)  
2001 SD GF&P - Wildlife Diversity Grants Program II (research support to V. Swier)  
2000 SD GF&P - Wildlife Diversity Grants Program I (research support to V. Swier)  
1995 Individual National Research Service Award (NIDR Post-Doctoral Fellowship)

## INTERNAL AWARDS & GRANTS

2015 Outstanding Teacher Award – Alpha-Lambda-Delta Honor Society  
2014 Honors College - Teacher of the Year Award  
2013+ Honors College Medallion certificates – 7 in 2013; 5 in 2014; 3 in 2015; 5 in 2016  
2013 F. O. Butler Teaching Award - Highest honor for teaching at SDSU  
2012 Outstanding Teacher Award – Alpha-Lambda-Delta Honor Society  
2011 TRiO Teaching Award (Title IV HEA, 1965) – Wintrode Success Center  
2005 Webster Excellence in Teaching Award - Phi-Kappa-Phi Honor Society  
  
2009 Sabbatical – Spring Semester  
2008 New Ideas Fund in support of ASM  
2007 Griffiths Trust - Research Support Fund  
2006 Nelson Research Support Fund  
2006 Bentley Trust - Research Support Fund  
2005 New Ideas Fund (Research tools 1999, 2001, 2002)  
  
2010 Honorary member – Golden Key Honor Society  
2004 Honorary member – Alpha-Lambda-Delta Honor Society

## MANUSCRIPT EDITING – JOURNALS (alphabetical)

Acta Anatomica, Acta Chiropterologica, American Midland Naturalist, Australian J Zoology, Biological J Linn. Society, BioScience, Caribbean J Science, Cells Tissues Organs, Check-list, EcoScience, Great Basin Naturalist, J Mammalian Evolution, J Mammalogy, J Morphology, J Anatomy, Mastozoologica, Northeast Naturalist, Quaternary Science Reviews, ScienceNow, Scientific Reports, Western American Naturalist, Zoologischer Anzeiger,

## CONSULTING - TECHNICAL ADVISOR

2010+ Batworks LLC  
2005+ Durrell Conservation Trust (UK)  
2000+ Co-Chair of the South Dakota Bat Working Group  
1997+ Montserrat National Trust, Montserrat, BWI  
1997+ Ministry of Agriculture, Department of Forestry, Montserrat, BWI  
  
2013 Coral Caye Conservation – Surrey (UK)  
13-15 Bat Conservation Trust  
10-12 Uriel Wind Inc.  
2010 Applied Ecological Solutions, Inc., Lawrence KS.  
2008 3M Manufacturing - Brookings  
05-09 Darwin Project – Centre Hills Biodiversity Survey – Montserrat  
2004 FREDON – Martinique  
2004 BBC Natural History Unit  
1999 Technical Advisor to Herrera Consulting Firm - Tacoma, WA.  
97-02 Bats Northwest NPO – Seattle WA

## UNIVERSITY SERVICE

- 2015+ AAC - University Internship/Learning Experience Committee
- 2015+ Campus Planning & Design Committee
- 2013+ Academic Affairs Committee
- 2012+ Faculty Senate – Task force on Classroom Design
- 2011+ Faculty Senate – AG-Bio Senator
- 2001+ Departmental Scholarship Committee
- 2001+ Departmental Graduate Committee (Chair '01-02)
  
- 06-15 Harding Lectureship Committee
- 12-14 Faculty Senate – Task force on Academic Quality & Rigor
- 06-10 Advisor to the Ultimate Frisbee Club at SDSU
- 2009 SD Thriving magazine (Ag-Bio) - Promotion of Pre-Pro Program (article/video)
- 00-09 Advisor to the Sigma Phi Epsilon fraternity
- 2008 Co-Host Annual Meeting of the American Society of Mammalogists
- 05-08 Advisor to the Pre-Professional Club at SDSU
- 2007 Host Committee for the SDAS meetings
- 03-05 Science Fair Judge – Zoology
- 99-01 Departmental Assessment Committee

## COMMUNITY SERVICE & PRESENTATIONS FOR THE GENERAL PUBLIC

- 2010 Bats in the Military — Invited lecture - 265th RRC (Army Airborne), Cedar Rapids, IA
- 2010 Bats 101. Science at the Pub & Science Visions Institute – Brookings, SD
- 2009 SDPB – SDPB Dakota Midday Interview & Science Café presentation – SD Bats (Aberdeen)
- 2009 University Center: Osher Lifelong Learning Institute (OLLI) presentation (Sioux Falls SD)
- 07-09 Brookings Bats and their Behavior – Science Visions Institute – Brookings, SD
- 2006 Bats of Montserrat BWI: 20 years in the Belham Valley. Downtown Kiwanis Club, Brookings SD
- 2006 Bats of Montserrat and SDSU students in the Caribbean. Golden K Kiwanis Club, Brookings SD
- 2005 Fruit bats of MNI-Population fluctuation in response to hurricanes & volcanoes. Phi-Kappa-Phi Society
- 2005 Bat Biology & Behavior – Nebraska Humane Society – Omaha NE.
- 2002 Bat Biology & Behavior – Nebraska Humane Society – Omaha NE.
- 2001 Sublethal pathology in Montserrat's bats- Rotary Club of Montserrat, BWI
- 1999+ Public relations & nuisance bat extractions from private residences (Brookings SD)
- 99-06 Public relations re: bats at the Washington Pavilion – “Spooky Science Night”, Sioux Falls SD
- 1998 Bats of Montserrat BWI: 20 years in the Belham Valley. Environmental Lecture Series - REI-Coop, Seattle.
- 97-99 Seattle – Weekly night nature-walks & ad hoc lectures in the Seattle City Parks, Bat-education slide-shows for K-12
- 88-99 Public relations & nuisance bat extractions from private residences (Lincoln NE & Seattle WA)

## FIELD EXPERIENCE

- 2014 Shandong Province, China: Collection of bats
- 2013 Belize: Collection & census of bats
- 2011 Montserrat, West Indies: Collection & census of bats
- 2010 South Dakota, Bat censuses of Moody County
- 2009 Phong Nha, Vietnam & Shandong Province, China: Collection of bats
- 2009 Montserrat, St. Lucia, & St. Eustatius – West Indies: Collection & census of bats
- 07-08 Montserrat, St. Lucia, & Barbados – West Indies: Collection & census of bats
- 2006 Montserrat, St. Vincent, & the Grenadines – West Indies: Collection & census of bats
- 2005 Montserrat and St. Vincent: Collection & census of bats
- 2004 Montserrat, St. Maarten, St. Barths, St. Eustatius – West Indies: Collection & census of bats
- 2003 Antigua, Barbuda, Saba, St. Eustatius, St. Maarten – West Indies: Collection & census of bats
- 2002 Montserrat, Saba, St. Eustatius, St. Maarten – West Indies: Collection & census of bats
- 2001 Montserrat, Nevis, St. Kitts – West Indies: Collection & census of bats
- 2000 South Dakota, Bat censuses of Brookings County & the Oak Lake Field Station, SDSU.
- 2000 Montserrat & Antigua – West Indies: Collection & census of bats
- 1998 Montserrat, West Indies: Collection and census of bats.
- 97-99 Washington, Seattle: Bat censuses of Discovery, Arboretum, Greenlake, & Carkeek City Parks
- 1997 Montserrat, West Indies: Collection and census of bats.
- 93-94 Montserrat, West Indies: Collection and census of bats.
- 1992 Costa Rica, Guanacaste: Collection of bats with M. B. Fenton, York University, Ontario.
- 1992 Colorado, Div. Wildlife: Inactive mine project. Bat census with R. Adams, UW-Whitewater.
- 1989 Trinidad, Grenada, St. Vincent – West Indies: Collection of bats with C. Phillips, Hofstra University, NY.
- 88-92 Wyoming, Fort Laramie Nat. Hist. site: Bat census with R. Adams, UC-Boulder.
- 1988 Colorado, Orient mine: Bat census with R. Adams, UC-Boulder.
- 1985 Germany and Austria: Collection of small mammals with R. Sage, UC-Berkeley.