

Current Positions

Research Associate, Duke University Department of Biology, USA

Research Director and Macaw Project Director, Rainforest Expeditions, Peru

Education

1999 Ph.D. in Zoology, Duke University.

1993 MS in Wildlife Ecology, University of Arizona.

1990 BS in Natural Resources with honors and distinction, Cornell University.

1989 Oxford University, England, visiting student in Zoology.

Professional Publications

Brightsmith, D. J. Submitted, April 2004. Community-wide patterns of parrot nesting in the southwestern Amazon Basin. *Wilson Bulletin*.

Brightsmith, D. J. In press. Competition, predation and nest niche shifts among cavity-nesting parrots and trogons: phylogeny and natural history evolution. *Journal of Avian Biology*.

Brightsmith, D. J. In press. Competition, predation and nest niche shifts among cavity-nesting parrots and trogons: ecological evidence. *Journal of Avian Biology*.

Brightsmith, D., J. Hillburn, A. del Campo, J. Boyd, M. Friesius, R. Friesius, Janik, D. and Guillen, F. 2004. The use of hand-raised psittacines in reintroduction projects: a case study of Scarlet Macaws in Peru and Costa Rica. *Biological Conservation*.

Brightsmith, D. J. and R. Aramburu. 2004. Avian geophagy in se Peru: the roles of toxin neutralization and mineral supplementation in soil choice. *Biotropica* 36(4).

Brightsmith, D. J. 2004. Effects of weather on avian geophagy in Tambopata, Peru. *Wilson Bulletin*, 116(2).

Brightsmith, D. J. 2004. Nest sites of termitarium nesting birds in se Peru. *Neotropical Ornithology*. 15.

Brightsmith, D. J. 2000. Use of arboreal termite mounds by nesting birds in the Peruvian Amazon. *Condor: an International Journal of Ornithology* 102: 529-538.

Brightsmith, D. J. 1999. Los roles de la competencia y depredación en los nichos deiferentes de anidación: evidencia de los nidos termiteros de loros y trogones. *Anales de la III Jornada Nacional de Ornotología Calca*. Agosto 1999, Cuzco, Peru. 62-63.

Brightsmith, D. J. 1999. Book review: Handbook of the birds of the world. *The Auk* 116:1159-1160.

Brightsmith, D. J. 1999. Book review: Parrots a guide to parrots of the world. *The Auk* 116: 868-870.

Brightsmith, D. J. 1999. The roles of predation and competition in nest niche differentiation: evidence from termitarium nesting parrots and trogons. Ph.D. dissertation. Duke University, Department of Zoology, Durham NC.

Brightsmith, D. J. 1999. White-winged Parakeet (*Brotogeris versicolurus*) and Yellow-chevroned Parakeet (*Brotogeris chiriri*). In *Birds of North America*, No. 386-387 (a. Poole and F. Gill, eds.). The Birds of North America, Inc., Philadelphia, PA.

- Miller, B., R. Reading, J. Strittholt, C. Carroll, R. Noss, M. Soulé, O. Sánchez, J. Terborgh, D. Brightsmith, T. Cheeseman, and D. Foreman. 1998. Using Focal Species in the Design of Nature Reserve Networks. *Wild Earth* 8(4):81-92.
- Cortner, H. J., M. N. Jensen, and D. J. Bright-Smith. 1995. Evaluating Forest Policies in the United States: Components of the Process and a Case Example. In Solberg, B. and P. Pelli (eds.) *Forest Policy Analysis--Methodological and Empirical Aspects*. EFI Proceedings 2:5-20.
- *Bright-Smith, D. J. and R. W. Mannan. 1994. Habitat characteristics of male northern goshawks on the Kaibab Plateau. *Studies in Avian Biology* 16:58-65.
- *Bright-Smith, D. J. 1994. Habitat use by breeding male northern goshawks in northern Arizona. MS Thesis, University of Arizona, Tucson, AZ.
- *Smith, D. J. and C.R. Smith. 1992. Henslow's sparrow and grasshopper sparrow: a comparison of habitat use on Finger Lakes National Forest, New York. *Bird Observer* 20:187-194.
- *Smith, D. J. 1991. Winter Bird Population Studies: 5. Isolated Beech-maple Woods. *J. Field Ornithology* 62(1 supp.):10.
- *Note name changes.

Current research projects

- Nesting of Blue-and-yellow Macaws in se Peru. Data have been collected and are awaiting analysis. In conjunction with Adriana Bravo, Peruvian biologist.
- The roles of aggression and dominance in spatial use of a clay lick in Tambopata, Peru. Data have been collected. In conjunction with Ursula Showing, Peruvian university student.
- Impacts of tourism at avian geophagy sites in southeastern Peru. Data have been collected and are awaiting analysis.
- Impacts of ecotourism on lowland tropical amphibians. Data have been collected and are being analyzed. Thesis project of Aleyda Curo, Peruvian university student.
- The potentials and pitfalls of censusing parrot populations at geophagy sites. Data have been collected are awaiting analysis.
- The role of soil characteristics in spatial use of a clay lick in Tambopata, Peru. Bird data have been collected, soil samples are being analyzed.
- Year-round census of macaws and parrots in Tambopata, Peru. Data collection started in January 2003 and will terminate in February 2004. In conjunction with Peruvian biologist, Aida Figari.
- The roles of nest temperature and humidity in hatching success among natural and artificial macaw nests. One preliminary season of data have been collected, data collection will continue in 2003-2004.
- Nesting success of Scarlet Macaws in natural and artificial nests. Data collection underway since 2000 and is scheduled to continue.
- Growth rates of Scarlet Macaw chicks. Data have been collected since 2000 and will continue.
- Nest attendance patterns by Scarlet Macaws in Peru. Over 1000 hours of observations of Scarlet Macaw nests have been logged. Data collection will continue in 2004.
- Supplemental feeding as a method to increase fledging success of large macaws. Three seasons of data have been collected, one more is needed to obtain sufficient sample sizes.
- Nutritional analysis of crop contents from Scarlet Macaw chicks in Peru. Data collection scheduled for 2004. In conjunction with Debora McDonald, avian nutritionist from Australia.

Teaching Materials

- Tropical Ecology Field Handbook. Villalobos, E. V. and D. J. Brightsmith. Four editions 2000 – 2003. Produced for the Organization for Tropical Studies' Undergraduate Summer course in Tropical Ecology. Pp 93.
- Training information for EarthWatch volunteers to research project Macaws of the Peruvian Amazon. 2001 – 2003. Pp 30.
- Inkenishiku: Nuestro Bosque, Material de consulta para el docente. 1998 Proyecto Educacion Ambiental en Manu. A conservation education book for secondary school teachers in the local communities surrounding Manu National Park, Peru (by L. Pautrat with contributions by D. J. Brightsmith).

Teaching Experience

- June 02,01,00,99 Tropical Ecology, Instructor, Duke University and the Organization for Tropical Studies, Undergraduate Program
- Nov 02 Introduction to Biology for Future Guides from the Native Community of Infierno, Instructor, (in Spanish)
- Feb 03,02,01,00 Rainforest Expeditions Guide and Investigator Course, Ecology Instructor, (in Spanish)
- Aug 00 Biodiversity, Graduate Course Instructor, Organization for Tropical Studies
- Jan 99 Tropical Ecology, Teaching Assistant, Duke University
- Oct 98 + 94 Introductory Ecology, Teaching Assistant, Duke University
- Jan 98 + '97 Animal Physiology, Teaching Assistant, Duke University
- Jan 95 + '96 Introductory Biology, Teaching Assistant, Duke University
- Jan 90 Bird Biology and Conservation, Teaching Assistant, Cornell University

Grants and Fellowships

- 3/03, 02, 01, 00 Center for Field Studies and the EarthWatch Institute
- 2/01 Conservation, Food and Health Foundation
- 6/00 Tambopata Research Society
- 5/00 Pukara Magazine
- 10/93,98,99,00 Conservation Research Grant, Raleigh-Durham Caged Bird Society
- 10/99 Research Grant, Aviculture Society of Tucson
- 3/98 - 3/95 The Rotary Club of West Hempstead and L.I. District
- 5/97, 5/95 Duke University Graduate School Dissertation travel award
- 5/97, 5/95 Duke/UNC Latin American Studies Travel Grant
- 5/96 - 8/93 James B. Duke Memorial Fellowship, Duke University Graduate School
- 8/95 National Science Foundation Dissertation Improvement Grant
- 5/95 Explorers Club Exploration Grant
- 5/95 Chapman Fund Grant, American Museum of Natural History
- 4/91, 4/92 Research Grant: Habitat use by N. Goshawks, USDA Forest Service
- 4/90 National Science Foundation Graduate Student Fellowship

Magazine Articles and Reports

- 10/03 Helping local people value their natural treasures. (Johnson and Brightsmith). PsittaScene: Newsletter of the World Parrot Trust.
- 11/03 The real dirt on parrot clay licks. Bird Talk Magazine.
- 7/03 Battle for Amor: a wild macaw nest site war. (Wilson and Brightsmith). Bird Talk Magazine.
- 2/03 My macaws. Ranger Rick Magazine.
- 12/01 Macaw Management Part 2. Parrots, UK 37: 67-69
- 8/01 Tambopata Macaw Project: Annual Report 1999-2000, American Federation of Aviculture Watchbird 28(3):24-30.
- 9/00 Scarlet Macaw Nest Box Design, unpublished report sent to Amigos de las Aves Costa Rica and Zoo Ave Costa Rica to guide them in their construction of nest boxes.
- 8/00 Macaw Reproduction and Management in Tambopata, Peru II: Nest box design and use. This report was published in magazines in the US, the Netherlands, New Zealand, France, Germany, Sweden and the UK.
- 6/00 Macaw Reproduction and Management in southeastern Peru I: Blue-and-gold Macaws. Published in magazines in the US, the Netherlands, New Zealand, France, Germany, Sweden and the UK.
- 10/99-12/00 As part of a regular column for Bird Talk Magazine I have published text and photos for the following topics Cooperative Breeding, Extinction of the Glaucus Macaw, Predation and the Sociable Parrot, Nest Sites of Wild Parrots, Amazon Release in Venezuela, Becoming a Field Biologist, Canary-winged Parakeets, Quaker Parakeets, Blue-and-gold Macaws.
- 10/99 An Evaluation of the Guayaquil Macaw Project, Bosque Protector Cerro Blanco, Guayaquil, Ecuador. Submitted to Yves de Soye, Scientific Director, Loro Parque Foundation.
- 9/ 98 1998. Termites y la Coexistencia con Aves Tropicales. Parque Nacional del Manu. En: Xilema. Revista de los Estudiantes de la Facultad de Ciencias Forestales. UNALM. Año 1, No. 1. (authors Brightsmith, D. J. and L. Pautrat).
- 8/98, 10/98 Journey to the Amazon, parts one and two. Bird Times Magazine.