

EDUARDO FERNANDEZ-DUQUE

ASSISTANT PROFESSOR OF ANTHROPOLOGY
DEPARTMENT OF ANTHROPOLOGY
UNIVERSITY OF PENNSYLVANIA
3260 SOUTH STREET
PHILADELPHIA, PA 19104-6398
PHONE: 001-215-898-1072, FAX: 001-215-898-7462
E-MAIL: EDUARDOF@SAS.UPENN.EDU
WEBSITE: [HTTP://WWW.SAS.UPENN.EDU/~EDUARDOF/](http://WWW.SAS.UPENN.EDU/~EDUARDOF/)

EDUCATION

1996 Ph.D., Animal Behavior. University of California, Davis.
1994 M.S., Animal Behavior. University of California, Davis.
1988 Licenciatura in Biology. University of Buenos Aires, Argentina.

APPOINTMENTS

2007- Present **Consulting Curator**, University of Pennsylvania Museum of Archaeology and Anthropology.
2006- Present **Term Assistant Professor**, Department of Anthropology, University of Pennsylvania.
2007- Present **Research Associate**, Population Studies Center, University of Pennsylvania
2006-Present **Faculty**, Psychology Graduate Group, University of Pennsylvania.
2000-2005 **Postdoctoral Fellow**, Zoological Society of San Diego.
2002-present **Director of Science**, Fundación ECO, Formosa, Argentina.
1999-present **Adjunt Researcher**, Conicet, Argentina.
1999-present **Research Associate**, National Zoological Park, Smithsonian Institution.
1999-2001 **President**, Fundación ECO, Formosa, Argentina.
1999-2001 **Research Associate**, Department of Anthropology, Harvard University.
1999-2000 **Visiting Scholar**, Rockefeller Center for Latin American Studies, Harvard University.
1996-98 **Post-Doctoral Researcher**, National Zoological Park, Smithsonian Institution.

RESEARCH PROJECTS

2002-present Comparative Socioecology of Monogamous Primates in Argentina and Ecuador. In collaboration with Dr. Anthony Di Fiore (Anthropology, NYU).
2000-present Behavior, Ecology, and Genetics of Owl Monkeys in the Argentinean Chaco.
2001-present Population Dynamics and Demography of Howler Monkeys (*Alouatta caraya*) in the Argentinean Chaco.
2001-present Behavior, Ecology and Conservation of Armadillos and Anteaters in the Argentinean Chaco.

9/24/2009

- 1996-present Population Biology of Red Howlers (*Alouatta seniculus*) in Venezuela. In collaboration with Dr. Rudy Rudran, National Zoological Park, USA.
- 1992-1996 Male-Female Relationships in Captive Titi Monkeys (*Callicebus moloch*). Ph.D. Dissertation, Advisor: Dr. William A. Mason, Animal Behavior Graduate Group, University of California at Davis, USA.
- 1987-1989 Learning and Memory in the Crab *Chasmagnathus granulatus*. Undergraduate Thesis, Comparative Physiology Laboratory, Department of Biology, University of Buenos Aires, Argentina.

MANUSCRIPTS TO BE SUBMITTED DURING 2009 AND AVAILABLE UPON REQUEST

- J. P. Perea-Rodriguez, A. M. Milano, B. E. Osheroov and **E. Fernandez-Duque**. Gastrointestinal parasites of owl monkeys (*Aotus azarai azarai*) in the Argentinean Chaco. *Folia Primatologica*.
- C.A. Aktipis & **E. Fernandez-Duque**. Parental investment without kin recognition: simple conditional rules for parent-offspring behavior. *Behavioral Ecology and Sociobiology*.
- E. Fernandez-Duque**, H. De la Iglesia, & H. G. Erkert. Moonstruck primates: wild owl monkeys need moonlight for nocturnal activity.
- Dacier, A., de Luna, G., **E. Fernandez-Duque** & A. Di Fiore. Estimating population density of Amazonian titi monkeys (*Callicebus discolor*) via playback point counts. *Biotropica*.
- G. De Luna, R. Sanmiguel, A. Di Fiore & **E. Fernandez-Duque**. Predation of a red titi monkey (*Callicebus discolor*) by a harpy eagle (*Harpya harpya*) and other unsuccessful attacks by predators on Pitheciines in Lowland Amazonia. *Folia Primatologica*.

REFEREED ARTICLES

- Juárez, C. P., Rotundo, M. & W. Berg, & **Fernandez-Duque, E.** Costs and benefits of radio-collaring on the behavior, demography and conservation of owl monkeys (*Aotus azarai*) in Formosa, Argentina. *International Journal of Primatology* (submitted).
- Babb, P., **E. Fernandez-Duque**, P. Gagneux & T. G. Schurr. Phylogeography and Population Structure of mtDNA Diversity in Azara's owl monkeys (*Aotus azarai azarai*) of the Argentinean Chaco. *Molecular Phylogenetics and Evolution* (submitted).
- Valeggia, C., Burke, E. & **E. Fernandez-Duque**. The impact of socioeconomic change on nutritional status among Toba and Wichí populations of Argentina. *Economics and Human Biology* (in press). [32]
- E. Fernandez-Duque**, C. R. Valeggia & S.P. Mendoza (2009). The Biology of Paternal Care. *Annual Review of Anthropology*, Volume 38:115-130. [31]
- E. Fernandez-Duque, E.** (2009). Natal dispersal in monogamous owl monkeys (*Aotus azarai*) of the Argentinean Chaco. *Behaviour* 146:583-606. [30]
- E. Fernandez-Duque**, A. Di Fiore & G. Carrillo-Bilbao (2008). Behavior, ecology and demography of *Aotus vociferans* in Yasuní National Park, Ecuador. *International Journal of Primatology* 29:421-431. [29]

9/24/2009

- C.K. Wolovich, J.P. Perea-Rodriguez, **E. Fernandez-Duque** (2008). Food transfers to young and mates in wild owl monkeys (*Aotus azarai*). American Journal of Primatology 70: 211-221. [28]
- E. Fernandez-Duque**, C. Juárez & A. Di Fiore (2008). Adult Male Replacement and Subsequent Infant Care by Male and Siblings in Socially Monogamous Owl Monkeys (*Aotus azarai*). Primates 49: 81-84. [27]
- Macdonald, E.; **E. Fernandez-Duque**, L. Hagey & S. Evans (2008). Sex, Age and Family Differences in the chemical composition of owl monkey (*Aotus nancymae*) subcaudal scent secretions. American Journal of Primatology 70: 12-18. [26]
- Di Fiore, A.; **Fernandez-Duque, E.** & Hurst, D. (2007). Male Adult Replacement in a Group of Socially Monogamous Saki Monkeys in Ecuadorian Amazon. Folia Primatologica 78: 88-98. [25]
- Levenson, D.; **Fernandez-Duque, E.**; Evans, S. and G. H. Jacobs, (2007). Mutational Changes in S-Cone Opsin Genes Common to Both Nocturnal and Cathemeral *Aotus* Monkeys. American Journal of Primatology, 69 (7): 757-765 [24]
- Fernandez-Duque, E.** & Erkert, H. (2006). Cathemerality and lunar periodicity of activity rhythms in owl monkeys of the Argentinian Chaco. Folia Primatologica, 77: 123-138. [23]
- Juárez, C.; Dvoskin, R., & **E. Fernandez-Duque** (2005). Structure and Composition of Wild Black Howler Troops (*Alouatta caraya*) in Gallery Forests of the Argentinean Chaco. Neotropical Primates, 13(1):19-22. [22]
- Rotundo, M., **Fernandez-Duque, E.** & Dixson, A.F. (2005). Infant development and parental care in free-ranging *Aotus azarai azarai* in Argentina. International Journal of Primatology, 26 (6): 1459-1473. [21]
- Carrillo, G.; Di Fiore, A. & **E. Fernandez-Duque** (2005). Dieta, Forrajeo y Presupuesto de Tiempo en Cotonillos (*Callicebus discolor*) del Parque Nacional Yasuní en la Amazonia Ecuatoriana. Neotropical Primates 13 (2): 7-11. [20]
- Lau, J., **Fernandez-Duque, E.**, Evans, Si, Dixson, A.F., & O.A. Ryder (2004). Heterologous amplification and diversity of microsatellite loci in three owl monkey species (*Aotus azarai*, *A. lemurinus*, *A. nancymae*). Conservation Genetics, 5 (5):727-731. [19]
- Dvoskin, R., Juárez, C.P., & **E. Fernandez-Duque** (2004). Population Density of Black Howlers (*Alouatta caraya*) in the Gallery Forests of the Argentinean Chaco: A Preliminary Assessment, Folia Primatologica, 75 (2): 93-96. [18]
- Ceresoli, N. & **E. Fernandez-Duque** (2003). Datos Morfométricos de los Armadillos del Complejo Ecológico Municipal de Sáenz Peña, Provincia del Chaco, Argentina, Edentata, 5: 35-37. [17]
- Fernandez-Duque, E.** (2003). Influences of moonlight, ambient temperature and food availability on the diurnal and nocturnal activity of owl monkeys (*Aotus azarai*), Behavioral Ecology and Sociobiology, 54: 431-440. [16]
- Fernandez-Duque, E.** & M. Rotundo (2003). Field Methods for Capturing and Marking Azarai Night Monkeys. International Journal of Primatology: 24(5): 1113-1120. [15]

9/24/2009

- Rudran, R., and **Fernandez-Duque, E.** (2003). Demographic Changes over Thirty Years in a Red Howler Population in Venezuela. International Journal of Primatology: 24 (5): 925-947. [14]
- Fernandez-Duque, E.** and Huntington, C. (2002). Disappearances of individuals from social groups have implications for understanding natal dispersal in monogamous owl monkeys (*Aotus azarai*). American Journal of Primatology, 57: 219-225. [13]
- Rotundo, M; **Fernandez-Duque, E.** & Giménez, M. (2002). Cuidado Biparental en el Mono de Noche (*Aotus azarai azarai*) de Formosa, Argentina. Neotropical Primates, 10 (2), 70-73. [12]
- Fernandez-Duque, E.**; Rotundo, M & Ramirez-Llorens, P. (2002). Environmental Determinants of Birth Seasonality in Night Monkeys (*Aotus azarai*) of the Argentinean Chaco. International Journal of Primatology 23 (3), 639-656. [11]
- Fernandez-Duque, E.**; Rotundo, M. & Sloan, C. (2001). Density and population structure of owl monkeys (*Aotus azarai*) in the Argentinean Chaco. American Journal of Primatology 53 (3): 99-108. [10]
- Fernandez-Duque, E.**, Valeggia, C. & W.A.Mason (2000). Effects of pair-bond and social context on male-female interactions in captive titi monkeys (*Callicebus moloch*, Primates: Cebidae). Ethology 106: 1067-1082. [9]
- Rotundo, M., C. Sloan & **Fernandez-Duque, E.** (2000). Cambios Estacionales en el Ritmo de Actividad del Mono Mirikiná (*Aotus azarai*) en Formosa Argentina. Pp 413-417. In: Cabrera, E., C. Mercolli & R. Resquin. Manejo de Fauna Silvestre en Amazonía y Latinoamérica. Asunción. 578 pp. [8]
- Valeggia, C.R., Mendoza, S.P., **Fernandez-Duque, E.**, Mason, W.A., and Lasley, B. (1998). Reproductive Biology of Female Titi Monkeys (*Callicebus moloch*). American Journal of Primatology, 47:183-195. [7]
- Fernandez-Duque, E.**, W.A. Mason & S.P. Mendoza (1997). Effects of duration of separation on responses to mates and strangers in the monogamous titi monkey (*Callicebus moloch*). American Journal of Primatology 43 (3): 225-237. [6]
- Fernandez-Duque, E.** & S.P. Bravo (1997). Population Genetics and Conservation of Owl Monkeys (*Aotus azarai*) in Argentina: A Promising Field Site. Neotropical Primates, 5 (2): 48-50. [5]
- Fernandez-Duque, E.** (1997). Comparing and combining data across studies: alternatives to significance testing. Oikos 79 (3): 616-618. [4]
- Fernandez-Duque, E.** and C. Valeggia (1994). Meta-Analysis: A valuable Tool in Conservation Research. Conservation Biology, 8 (2): 555-561. [3]
- Fernandez-Duque, E.**, Valeggia, C. and H. Maldonado (1992). Multitrial Inhibitory Learning in the Crab *Chasmagnathus*. Behavioral and Neural Biology, 57: 189-197. [2]
- Valeggia, C., **Fernandez-Duque, E.** and H. Maldonado (1989). Danger stimulus-induced analgesia in the crab *Chasmagnathus granulatus*. Brain Research, 481:304-308. [1]

REPRINTED ARTICLES (PEER REVIEWED)

9/24/2009

Fernandez-Duque, E. (in press). Aotinae: Social Monogamy in the Only Nocturnal Haplorhines. In: *Primates in Perspective* (Eds: S. Bearder et al.), Second Edition, Oxford University Press.

Fernandez-Duque, E. (2007). Aotinae: Social Monogamy in the Only Nocturnal Haplorhines. In: *Primates in Perspective* (Eds: S. Bearder et al.), Oxford University Press.

Fernandez-Duque, E. and C. Valeggia (1995). Meta-Analysis: A valuable Tool in Conservation Research. Reprinted in: *Readings from Conservation Biology, To Preserve Biodiversity - An Overview*. Editor: David Ehrenfeld, 208-214.

BOOK CHAPTERS

E. Fernandez-Duque & Anthony Di Fiore (submitted). The behavior, ecology, and social evolution of New World monkeys. In: *Primate Societies*, Eds: Josep Call, Peter Kappeler, Ryne Palombit, Joan Silk and John Mitani.

C. Juárez, M. Kowaleski, C. Baldovino & **E. Fernandez-Duque** (in press). The conservation status of primate species in Argentina. In: *Wildlife Management in Argentina: An Action Plan for the Conservation of Endangered Species*. Editor: National Wildlife Directorate, Argentina.

E. Fernandez-Duque. Owl Monkeys. In *All the World's Primates* (Ed: Noel Rowe), (in press).

E. Fernandez-Duque & A. Di Fiore (in press). Comparing Social Behaviour and Parenting in *Pithecia* and *Callicebus*. In: *The Pithecines* (Ed: L. Veiga), Cambridge University Press.

Fernandez-Duque, E. (2007). Aotinae: Social Monogamy in the Only Nocturnal Haplorhines. In: *Primates in Perspective* (Eds: S. Bearder et al.), Oxford University Press. 139-154

REFEREED AND PUBLISHED ABSTRACTS (TOTAL: 36)

Van der Heide, G. W. E., Iriart, D., Juárez, C. P., Rotundo, M. & **Fernandez-Duque, E.** Do forest composition and fruit availability predict demographic differences between owl monkey (*Aotus azarai*) groups inhabiting a gallery forest in Formosa, Argentina? *American Journal of Primatology* **S** (2009).

Gustison, M., **Fernandez-Duque, E.** & Snowdon, C. T. Social monogamy: proximity maintenance and foraging patterns in the Argentinean owl monkey (*Aotus azarai azarai*). *American Journal of Primatology* **S** (2009).

Babb, P., **E. Fernandez-Duque** and T.G. Schurr (2009). Vasopressin receptor V1a (*avpr1a*) gene variation in the monogamous owl monkey, *Aotus azarai azarai*. *American Journal of Physical Anthropology*, S48: 81.

SC Antón, JJ Snodgrass, C Crowder, A Di Fiore, DL Duren, **E Fernandez-Duque**, WR Leonard, SR Leigh, FC Madimenos, WS McGraw, E Middleton, C Schmitt, RJ Sherwood, S Stinson, P Stubblefield, T Turner, CR Valeggia, and FJ White (2009). Integrative measurement protocol for morphological and behavioral research in human biology. *American Journal of Physical Anthropology*, S48: 78

M.N. Coleman, A. Di Fiore, and **E. Fernandez-Duque** (2009). A preliminary report on the interaction between ambient acoustics and primate vocalizations in the Ecuadorian Amazon. *American Journal of Physical Anthropology*, S48:108.

9/24/2009

- Depeine, C. C., M. Rotundo, C. Juárez and **E. Fernandez-Duque**. (2008). "Hoot calling in owl monkeys (*Aotus azarai*) of Argentina: sex differences and function." American Journal of Primatology: 70 (S1):69.
- Juárez, C. P., W. Berg and **E. Fernandez-Duque** (2008). "An evaluation of the potential long-term effects of radio-collars on the reproduction and demography of owl monkeys (*Aotus azarai*) in Formosa, Argentina." American Journal of Primatology: 70(S1):49.
- Perea-Rodriguez, J. P., A. Milano, **E. Fernandez-Duque** and B.E. Oscherov (2008). "Gastrointestinal parasites of owl monkeys (*Aotus azarai*) living in edge and non-edge territories in a gallery forest in Northern Argentina." American Journal of Primatology: 70 (S1): 53
- Fernandez-Duque, E.** & Juárez, C. (2008). Ecological, behavioral and demographic aspects of natal dispersal in monogamous owl monkeys (*Aotus azarai*) of the Argentinean Chaco. *Primate Eye* **96**, Abstr#321.
- Chowdhury, S., **Fernandez-Duque, E.** & Rudran, R. (2008). Influence of group structure on life histories of female red howler monkeys (*Alouatta seniculus*) of Venezuela. *PRIMATE EYE* **96** Abst #858 (2008).
- Dacier, A., De Luna, A. G., **Fernandez-Duque, E.** & Di Fiore, A. (2008). Estimating population density of titi monkeys (*Callicebus discolor*) through playback calls. *PRIMATE EYE* **96** Abst #218.
- P.L. Babb, P. Gagneux, **E. Fernandez-Duque**, T.G. Schurr (2008). Genetic Variation and Population Structure in the Owl Monkey, *Aotus azarai*. *American Journal of Physical Anthropology*, Suppl 46: 62.
- M.V. McLaughlin, **E. Fernandez-Duque** (2007). Range, activity, and tree selection in *Aotus azarai* ranges. *American Journal of Physical Anthropology* 132 (S44): 169.
- C.A. Schmitt, A. Di Fiore, A. Link, L.J. Matthews, M.J. Montague, A.M. Derby, D. Hurst, G. Carrillo, C. Sendall, and **E. Fernandez-Duque** (2007). Comparative ranging behavior of eight species of primates in a western Amazonian rainforest. *American Journal of Physical Anthropology* 132 (S44): 208.
- C. Sendall, **E. Fernandez-Duque**, and A. Di Fiore (2007): A preliminary study of mate-guarding in wild titi monkeys (*Callicebus discolor*). *American Journal of Physical Anthropology* 132 (S44): 214.
- C.K. Wolovich, J.P. Perea-Rodriguez, **E. Fernandez-Duque** (2007): Food sharing as a form of paternal care in wild owl monkeys (*Aotus azarai*). *American Journal of Physical Anthropology* 132 (S44): 252 .
- E. Fernandez-Duque** (2007). Costs and benefits of paternal care in free-ranging owl monkeys (*Aotus azarai*). *American Journal of Physical Anthropology* 132 (S44): 108.
- A. Di Fiore and **E. Fernandez-Duque** (2007): A comparison of paternal care in three socially-monogamous neotropical primates. *American Journal of Physical Anthropology* 132 (S44): 99.

9/24/2009

- M.V. Rakhovskaya, **E. Fernandez-Duque** and A. Di Fiore (2007). The effects of demographic and ecological factors on territory size and ranging patterns of Argentinean owl monkeys (*Aotus azarai*). American Journal of Physical Anthropology 132 (S44): 195.
- Di Fiore, A., **E. Fernandez-Duque**, G. Carrillo and D. Hurst. (2006). Comparative social behavior of males and females in three genera of socially monogamous platyrrhines. American Journal of Primatology **68** (Supplement 1): 99.
- Fernandez-Duque, E.**, A. Di Fiore, M. Rotundo and C. Juarez. (2006). Demographics and ranging of floaters in socially monogamous owl monkeys (*Aotus azarai*). American Journal of Primatology **68** (Supplement 1): 86.
- Barnett, A. A., E. Z. Setz, Pinto LP, Di Fiore A and **E. Fernandez-Duque**. (2006). Picky, picky: the bases for diet choice in pitheciines. International Journal of Primatology **27** (Supplement 1): Abstract #513.
- Veiga, L. M., M. Bowler, E. Cunningham, A. Di Fiore and **E. Fernandez-Duque**. (2006). Variability in pitheciine social organization. International Journal of Primatology **27** (Supplement 1): Abstract #516.
- D. Hurst, A. Di Fiore and **E. Fernandez-Duque**, 2005. Male replacement in a wild group of Equatorial Sakis (*Pithecia aequatorialis*). American Journal of Primatology: 66, S1: 118-199
- Fernandez-Duque, E.**; Valeggia, C.; Dixson, A.; Rudran, R. Fundación ECO of Formosa, Argentina: Capacity Building for the Conservation of the Biological and Cultural Diversity of the Argentinean Gran Chaco. Annual Meeting Society for Conservation Biology, Brasilia, August 15-19, 2005.
- Fernandez-Duque, E** 2004. High levels of intrasexual competition in sexually monomorphic owl monkeys. Folia Primatologica, 75 S1: 260.
- Fernandez-Duque, E.** & H. Erkert, 2004. Cathemerality and lunarphilia in owl monkeys of the Argentinean Chaco. Folia Primatologica, 75 S1: 67.
- Schwindt, D.M., Carrillo, G.A., Di Fiore, A., and **Fernandez-Duque, E.** 2004. Comparative Sociocology of Monogamous Primates in the Amazon and Gran Chaco. Folia Primatologica, 75 S1: 412.
- Fernández-Duque, E.** and M. Rotundo 2003. Are female owl monkeys imposing social monogamy on males? Revista de Etología, Suplemento: 5, p.92.
- Juárez, C.P., **E. Fernández-Duque**, and M. Rotundo 2003. Behavioral sex differences in the socially monogamous night monkeys of the Argentinean Chaco. Revista de Etología, Suplemento: 5, p.174.
- Giménez, M. and **E. Fernández Duque** 2003. Summer and Winter diet of night monkeys in the gallery and thorn forests of the Argentinean Chaco. Revista de Etología, Suplemento: 5, p. 164.
- Huntington, C. and **E. Fernandez-Duque** (2001). "Natal dispersal in the monogamous owl monkey (*Aotus azarai*) of Formosa, Argentina." American Journal of Physical Anthropology, Supplement 32: 83-84.

9/24/2009

- Fernandez-Duque, E.**, 1997. Proyecto Mirikiná: Behavior, Population Genetics and Conservation of Owl Monkeys (*Aotus azarae*) in Argentina. American Journal of Primatology: 42 (2):109.
- Fernandez-Duque, E.** and C.R. Valeggia, 1996. Meta-analysis in conservation biology: Effects of forest disturbance on primate populations. Bulletin of the Ecological Society of America, Supplement, 7 (3):139.
- Fernandez-Duque, E.**; W.A. Mason, and C.R. Valeggia, 1995. Effects of familiarity and context on interactions between heterosexual pairs of titi monkeys (*Callicebus moloch*). American Journal of Primatology, 36 (2):123.
- Valeggia, C.R., S.P. Mendoza, **E. Fernandez-Duque** and S.E. Schideler, 1994. Characterization of female titi monkey (*Callicebus moloch*) reproductive cycle by means of urinary steroids. Reproductive Biology. Biology of Reproduction, 50 (suppl. 1): 84.

BOOK REVIEWS, NEWSLETTER AND MAGAZINE ARTICLES

- Fernandez-Duque, E.**, 2007. Book Review of “New Perspectives in the Study of Mesoamerican primates” (Eds: Estrada et al). International Journal of Primatology 28(2): 493-495.
- Fernandez-Duque, E.**, and N. Ceresoli, 2003. *Napamaló*: The Giant Armadillo of the Gran Chaco. Zoonooz: September, 15-17.
- Fernandez-Duque, E.**, 2001. Book review of: Primate Conservation Biology by Guy Cowlshaw and Robin Dunbar. Animal Behaviour: 62, 390-391.
- Sloan, C. and **Fernandez-Duque, E.** 1999. Cathemerality in Argentinian Owl Monkeys. AnthroQuest, (8, Spring 99).
- Fernandez-Duque, E.** and C.R. Valeggia, 1996. Poster sessions: an alternative term assignment in animal behaviour courses. Animal Behaviour Newsletter, 41(4): 5.
- Fernandez-Duque, E.**, 1994. Face to Face with the Woolly-Spider Monkey. American Journal of Primatology, 32 (1), 65-67. Book review of: Faces in the forest. The Endangered Muriqui Monkeys of Brazil by Karen B. Strier.

GRANTS (TOTAL: \$641,000)

Current Grants (2008-2010)

- Hewlett Award for Innovations in International Teaching** (\$16,500; 2009), Primate Behavior, Ecology and Conservation in the Ecuadorian Amazon and the Argentinean Chaco.
- National Science Foundation** (\$208,000; 2006-2008), Social monogamy in free-ranging owl monkeys (*Aotus azarai azarai*) of Argentina: an experimental study of male and female contributions to territoriality, parental care, and pair bond maintenance.
- Research Experience for Undergraduates, NSF** (\$8,520; 2009), Social monogamy in free-ranging owl monkeys (*Aotus azarai azarai*) of Argentina: an experimental study of male and female contributions to territoriality, parental care, and pair bond maintenance.
- National Geographic Society**, (\$20,000), The Evolution of Monogamy and Paternal Care in Titi Monkeys (*Callicebus discolor*) of the Ecuadorian Amazon. In collaboration with Anthony Di Fiore (NYU).

9/24/2009

The L.S.B. Leakey Foundation, (\$8,000), The Evolution of Monogamy and Paternal Care in Titi Monkeys (*Callicebus discolor*) of the Ecuadorian Amazon. In collaboration with Anthony Di Fiore (NYU).

Monogamous Primate Research (awarded: \$580,000)

University of Pennsylvania Research Foundation (\$29,691, 2007), Paternity analyses and Genetic Structure of a Monogamous Primate Population.

Conservation Trust, National Geographic Society, (\$15,350, 2007-2008), A national program for the conservation of owl monkeys and gallery forests in the Argentinean Gran Chaco.

National Geographic Society, 2 grants (2002 and 2004) to support the study of social monogamy in owl monkeys of Formosa, Argentina.

L.S.B. Leakey Foundation, 5 grants (1996, 1998, 2002, 2004 and 2005) for various studies on the behavior and ecology of owl monkeys in Formosa, Argentina and in Ecuador

Wenner-Gren Anthropological Foundation, 2 grants (2002 and 2005), Comparative Socioecology of Monogamous Neotropical Primates in the Ecuadorian Amazon and the Argentinean Chaco. (with Anthony Di Fiore, New York University).

Conicet, Argentina, Ecología del Mono Mirikiná (*Aotus azarai*) in Formosa, Argentina, 1999-2001.

Zoological Society of San Diego, 2000-2005, Ecology, Behavior and Genetics of Owl Monkeys of the Argentinean Chaco

Douroucouli Foundation, 1998, Behavioral Ecology of Owl Monkeys (*Aotus azarai*) of Formosa, Argentina.

Wenner-Gren Anthropological Foundation (2004). Divorce and Serial Monogamy in Owl Monkeys of the Argentinean Chaco.

University of California Research Expeditions Program, 1998, Owl monkeys and capybaras of Argentina.

Earthwatch Expeditions, 1997-1998, Population Genetics of Owl Monkey (*Aotus azarai*).

Training and Education (awarded: \$50,000)

Research Experience for Undergraduates, NSF (\$8,120; 2008), Social monogamy in free-ranging owl monkeys (*Aotus azarai azarai*) of Argentina: an experimental study of male and female contributions to territoriality, parental care, and pair bond maintenance.

Provost' Undergraduate Research Mentoring Program, University of Pennsylvania, Grant to support the participation of Arden Rienes, C'11, in the on-going field research in Argentina,

The SeaWorld&Busch Garden Foundation, 2006, Conservation Education Program in the Argentinean Chaco.

The Offield Family Foundation, 2005, Conservation Education Program in the Argentinean Chaco.

Center for Reproduction of Endangered Species, Zoological Society of San Diego. II Latin American Primate Conservation Field Course, Formosa, Argentina.

Conservation International, II Latin American Primate Conservation Field Course, Argentina

Smithsonian Institution, Wildlife Conservation and Management Training Program, 2 grants (2003 and 2004), II and III Latin American Primate Conservation Field Courses, Argentina.

American Society of Primatologists, 2001, Conservation Research Grant, Primatology Library at Fundación ECO.

International Society of Primatologists, 2001, Primatology Library at Fundación ECO.

Giant Armadillo Research (awarded: \$18,700)

9/24/2009

- Conservation International**, 2 grants (2002 and 2003) for the study of Giant Armadillos (*Priodontes spp*) of the Argentinean Chaco (with Natalia Ceresoli, Fundación ECO, Argentina)
- Zoological Society of San Diego**, 2002, Preliminary Study of Wild Giant Armadillos (*Priodontes maximus*) in the Argentinean Chaco.
- The Offield Family Foundation**, 2005, Population Analysis of Giant Armadillos in Copo National Park, Argentina.

COURSES TAUGHT

- 2008 The Biology of Paternal Care, Department of Anthropology, Spring 2008, University of Pennsylvania.
- 2007-present Sex and Human Nature, Department of Anthropology, Spring and Fall 2007, Fall 2008, University of Pennsylvania
- 2007-present Introduction to Human Evolution, Department of Anthropology, Spring 2007, 2008 and 2009, University of Pennsylvania
- 2006-present Primate Behavior and Human Evolution, Department of Anthropology, Fall and Spring 2006, Spring 2009, University of Pennsylvania
- 2005 Gran Chaco Wildlife Conservation and Management Field Course, Argentina
- 2004 Smithsonian Institution Wildlife Conservation and Management Course, Namibia
- 2003-2004 I and II Latin American Primate Conservation Field Courses, Formosa, Argentina
- 2000 Introduction to Biological Anthropology, Harvard University Extension School
- 1998 Introduction to Physical Anthropology, Sierra College, California
- 1994 Research Methods, Dept. of Psychology, University of California, Davis
- 1995 Animal Behavior, Dept. of Psychology, University of California, Davis
- 1995 Introductory Psychology; Dept. of Psychology, University of California, Davis.
- 1994 Primate Socioecology, Dept. of Anthropology, University of California, Davis.
- 1990-1996 Teaching Assistant, Animal Behavior, Research Methods, Introductory Psychology, Introductory Anthropology, Primate Socio-ecology, Human Ecology.
- 1990 Teaching Assistant, Smithsonian Institution Wildlife Conservation and Management Training Course, Front Royal, VA.

STUDENT SUPERVISION

COMPLETED THESES

Morgan L. Gustison, Social Monogamy: Proximity Maintenance and Foraging Patterns in the Wild Argentinean Owl Monkey (*Aotus azarai azarai*). Undergraduate thesis, Univ. Wisconsin, Madison. Advisor: C. Snowdon.

Marina Giménez, Seasonal changes in the diet of Argentinean Owl Monkeys, 2004, Bachelor's Thesis, University of Buenos Aires, Argentina.

ON-GOING THESES

9/24/2009

Paul Babb, Genetic correlates of monogamy and pairbonds in owl monkeys, 2007-present, Doctoral Thesis, Anthropology, Penn

Cecilia Juárez, Demography and Metapopulation Dynamics of Owl Monkeys in the Argentinean Chaco”, 2006-present, Doctoral Thesis, University of Tucumán, Argentina.

Natalia Ceresoli, “Conservation and Ecology of Mammals in the Argentinean Chaco”, 2003-present, Doctoral Thesis, University of the Northeast, Argentina.

ADVISING

Noah Snyder-Mackler, Undergraduate Student, UPenn. A preliminary study of vocal communication and play-back experiments with titi monkeys at the Tiputini Biodiversity Station”, Ecuador (Summer 2006).

Maria Rakhovskaya, Doctoral Student, Psychology, UPenn. Field work in Owl Monkey Project in Argentina (December 2006).

Jennie Lau (M.S. UCSD, completed 2003). Heterologous amplification and diversity of microsatellite loci in three owl monkey species (*Aotus azarai*, *A. lemurinus*, *A. nancymae*). Reviewed thesis and manuscripts.

Christine Wolovich (Ph.D. candidate, Univ. Florida, expected 2006). Pair Formation and Food Sharing in Captive and Free-Ranging Owl Monkeys. Reviewed proposals and manuscripts.

HONORS, AWARDS AND FELLOWSHIPS

1999-2000 de Fortabat Visiting Scholarship, David Rockefeller Center for Latin American Studies, Harvard University.

1996 Travel Award, Ecological Society of America, Statistics Chapter.

1995 Course Improvement Award, Teaching Resources Center, Univ. of California, Davis.

1995 Best Student Presentation Award, American Society of Primatologists

1994 Chancellor's Teaching Fellowship, University of California, Davis.

1991-1992 Graduate Studies Scholarship, Organization of American States.

1990 Graduate Studies Fellowship, Smithsonian Institution, Washington, D.C..

PROFESSIONAL SERVICE

Associate Editor, International Journal of Primatology, 2009

Reviewer: Argentinean National Council of Research, American Journal of Primatology, International Journal of Primatology, Physiology and Behavior, The L.S.B. Leakey Foundation, Behavioral Ecology, Animal Welfare

Consulting Curator, Museum of Archaeology and Anthropology, University of Pennsylvania (2007)

Member, IUCN Primate Specialist Group (2007-present)

Member, Pitheciine Action Group, IUCN (2007-present)

Member, Research Committee, International Society of Primatologists (2007-present)

Board of Editors, International Journal of Primatology, 2004-2009

9/24/2009

Board of Editors, Neotropical Primates, 2007

Director of Science, Fundación ECO, 2003-present

Panel Member: Mammals of the South American Gran Chaco, an Ecoregional Evaluation, The Nature Conservancy, Asunción, Paraguay, 2004

President, Fundación ECO, 2000-2003

INVITED PRESENTATIONS

Seminar, Keeling Center for Comparative Medicine, MD Anderson Cancer Center, University of Texas, December 2008.

International Society of Primatologists, Symposium on Dispersal, July 2008

IUCN Neotropical Primates Red List Workshop, November 27th-December 1st, 2007, Orlando, FL

American Society of Physical Anthropologists, Symposium on Paternal Care, March 2007

Dept. Anthropology, University of California, Davis, Seminar Speaker, March 2006

International Society of Primatologists, Symposium on cathemerality, Turin, Italy, August 2004

Dept. Anthropology, Harvard University, Seminar Speaker, 2001

New York Consortium in Evolutionary Primatology (NYCEP), Dept of Anthropology, New York University, Seminar Speaker, 2001

Colby College, Maine, Seminar Speaker, 2001.

Zoological Society of San Diego, Seminar Speaker, 2000.

David Rockefeller Center for Latin American Studies, Harvard University, Seminar Speaker, 2000.

Department of Conservation Research, National Zoological Park, Seminar Speaker, 1998

Swarthmore College, Pennsylvania, Seminar Speaker, 1998.

Annual Meeting of the American Ecological Society, Symposium on meta-analysis in ecology, Providence, RI, 1996.

LANGUAGES

Speaking, reading and writing fluency in English and Spanish.

Basic conversational French.