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RESEARCH INTERESTS

Behavioral endocrinology of primates & other animals; Social behavior; Sex differences;
Development and reproduction

CURRENT POSITION

Assistant Professor, Dept. of Anthropology, California State University Fullerton, CA. 2009-present

PREVIOUS POSITION

Associate Research Curator, Conservation and Science & *Supervisor*, Wildlife Endocrinology Laboratory, Cleveland Metroparks Zoo, Cleveland, OH. 2006-2009.

EDUCATION

Princeton University, Dept. of Ecology & Evolutionary Biology, Princeton, NJ

Ph.D. September 2006. Dissertation Title: Endocrine Correlates and Fitness Consequences of Variation in the Mother-Infant Relationship in Wild Baboons (*Papio cynocephalus*) in Amboseli, Kenya. Advisor: Dr. Jeanne Altmann

Barnard College, Columbia University, New York, NY

B.A. Majors: Anthropology and Biology, 1999, *magna cum laude*

RESEARCH SUPPORT

CSUF Incentive Grant (2010: \$10,000)

Margot Marsh Biodiversity Foundation (2008: \$14,000)

Margot Marsh Biodiversity Foundation (2007: \$10,000)

Primate Conservation, Inc. (2006: \$2,000)

Cleveland Metroparks Zoo (2006: \$3,000)

L.S.B. Leakey Foundation Dissertation Research Grant (2002-03: \$12,000)

National Science Foundation Dissertation Improvement Grant (2002-03: \$12,000)

National Science Foundation Graduate Research Fellowship (2000-2005)

Barnard College Spiera Family Prize in Biology (2000: \$3,000)

RESEARCH SUPPORT (continued)

Undergraduate Research Award, American Museum of Natural History (1998: \$3,000)
NSF Research Experiences for Undergraduates Grant, Columbia University (1997: \$3,000)
NSF Research Experiences for Undergraduates Grant, Bronx Zoo (1996: \$3,000)

PAPERS IN REFEREED JOURNALS

1. **Nguyen N.**, Gesquiere L., Alberts S.C., Altmann J. 2012. Sex differences in the mother-neonate relationship in wild baboons: social, experiential and hormonal correlates. Animal Behaviour 83:891-903.
2. Fashing, P.J., **Nguyen, N.**, Luteshi, P., Opondo, W., Cash, J.F., and Cords, M. 2012. Evaluating the suitability of planted forests for African forest monkeys: A case study from Kakamega Forest, Kenya. American Journal of Primatology 74: 77-90.
3. Fashing, P.J. and **Nguyen, N.** 2011. Behavior towards the dying, diseased, and disabled among animals and its relevance to paleopathology. International Journal of Paleopathology 1: 128-129.
4. Fashing, P.J., **Nguyen, N.**, Barry, T.S., Goodale, C.B., Burke, R.J., Jones, S.C.Z., Kerby, J.T., Lee, L.M., Nurmi, N.O., Venkataraman, V.V. 2011. Death among geladas (*Theropithecus gelada*): A broader perspective on mummified infants and primate thanatology. American Journal of Primatology 73: 405-409.
5. Fashing, P.J., **Nguyen, N.**, and Fashing, N.J. 2010. Behavior of geladas and other endemic wildlife during a desert locust outbreak at Guassa, Ethiopia: Ecological and conservation implications. Primates 51: 193-197.
6. **Nguyen, N.**, Van Horn, R.C., Alberts, S.C., Altmann, J. 2009. "Friendships" between new mothers and adult males: Adaptive benefits and determinants in wild baboons (*Papio cynocephalus*). Behavioral Ecology and Sociobiology 63: 1331-1344.
7. **Nguyen, N.**, Gesquiere, L.R., Wango, E.O., Alberts, S.C., Altmann, J. 2008. Late pregnancy glucocorticoid levels predict responsiveness in wild baboon mothers (*Papio cynocephalus*) Animal Behaviour 75:1747-1756.
8. Fashing, P.J.; Mulindahabi, F.; Gakima, J.-B.; Masozera, M.; Mununura, I.; Plumtre, A.J.; **Nguyen, N.** 2007. Activity and ranging patterns of Angolan colobus (*Colobus angolensis ruwenzorii*) in Nyungwe Forest, Rwanda: Possible costs of large group size. International Journal of Primatology 28: 529-550.
9. Beehner, J. **Nguyen, N.**, Alberts, S.C., Altmann, J. 2006. The endocrinology of pregnancy and fetal loss in wild baboons. Hormones and Behavior 49:688-699.

PAPERS IN REFEREED JOURNALS (continued)

10. Altmann, J.; Lynch, J.W.; **Nguyen, N.**; Alberts, S.C.; Gesquiere, L.R. 2004. Life-history correlates of steroid concentrations in wild peripartum baboons. American Journal of Primatology 64: 95 – 106.
11. Sterling, E.J.; **Nguyen, N.**; Fashing, P.J. 2000. Spatial patterning in nocturnal prosimians: a review of methods and relevance to studies of sociality. American Journal of Primatology 51:3-19.
12. **Nguyen, N.** 2000. A survey of Tonkin snub-nosed monkeys (*Rhinopithecus avunculus*) in northern Viet Nam. Folia Primatologica 71:157-160.

BOOK CHAPTERS

1. **Nguyen, N.** (in press). Primate behavioral endocrinology. In: Sterling, E.J., Bynum, N., and Blair M.E, editors. Primate ecology and conservation: A handbook of techniques. Oxford University Press.

MANUSCRIPTS UNDER REVIEW

1. Fashing, P.J.*, Lee, L.M.*, **Nguyen, N.***, Nurmi, N.O., Stewart, K.M., Turner, T.J., Barry, T.S., Goodale, C.B., Burke, R.J., Jones, S.C.Z., and Zhao, Y. (in review). Behaviors surrounding birth in wild gelada monkeys (*Theropithecus gelada*): Patterns of delivery, impact of parity, and implications for human evolution. American Journal of Physical Anthropology (* denotes co-first authors listed in alphabetical order)

MANUSCRIPTS IN PREPARATION

1. **Nguyen, N.**, Fashing, P.J. (in prep.). Sexual conflict and birth seasonality in wild geladas (*Theropithecus gelada*) at Guassa: Ethiopia. To be submitted to Behavioral Ecology & Sociobiology.
2. **Nguyen, N.**, Escalante, C.E., Fashing, P.J., Lewandowski, A. (in prep.). Sex differences in morbidity and mortality of captive Amur Tigers (*Panthera tigris altaica*) in North America (1960-2009). To be submitted to Journal of Zoology

MEDIA COVERAGE

1. Switek, B. 2011. "What death means to primates". *Wired* magazine science blog. <http://www.wired.com/wiredscience/2011/04/what-death-means-to-primates/>
2. Marshall, M. 2010. "Bereaved animals grieve – if their lifestyle allows it". *New Scientist*, issue 2791, December 2010. <http://www.newscientist.com/article/mg20827913.900-bereaved-animals-grieve--if-their-lifestyle-allows-it.html>
3. Quirks & Quarks. 2010. "Monkeys munch on locust lunch". *Canadian Broadcasting Corporation science news radio program featured story and on-air interview with Dr. Peter J. Fashing*. 22 May 2010. <http://www.cbc.ca/quirks/episode/2010/05/22/synthetic-cell-greenland-rising-adapted-for-altitude-monkeys-munch-on-a-locust-lunch-do-fish-feel-pa/>
4. Bourton, J. 2010. "Monkeys filmed feasting on locust swarm in Ethiopia". *BBC EARTH NEWS* 30 April 2010. http://news.bbc.co.uk/earth/hi/earth_news/newsid_8651000/8651148.stm
5. Landis, B. Y. 2009. "Cal State Fullerton: Baboon moms pick up 'boy toys'". *Orange County Register* 14 August 2009. <http://sciencedude.freedomblogging.com/2009/08/04/cal-state-fullerton-says-baboon-moms-pick-up-boy-toys/46401/>
6. Matt, W. 2009. "Female baboons exploit chaperones". *BBC EARTH NEWS* 16 July 2009. http://news.bbc.co.uk/earth/hi/earth_news/newsid_8097000/8097545.stm

FIELD RESEARCH EXPERIENCE

1. Research on the behavioral ecology, endocrinology, and conservation biology of wild gelada monkeys (*Theropithecus gelada*) at Guassa, Menz Highlands, north-central Ethiopia, in collaboration with Dr. Peter Fashing (Dept. of Anthropology, CSUF). Dec 2005 – present.
2. Research on the causes and consequences of variation in the mother-infant relationship in five long-term study groups of wild yellow baboons in the Amboseli Baboon Research Project population in the Amboseli basin, southern Kenya. Jul 2002 – Nov 2003.
3. Research on the behavior and ecology of wild Angolan black and white colobus (*Colobus angolensis*) & gray-cheeked mangabeys (*Lophocebus albigena*) in the Nyungwe Forest, Rwanda in collaboration with Dr. Peter Fashing of the Wildlife Conservation Society, Bronx Zoo. Apr – May 2000.
4. Research on the status and distribution of two species of critically endangered leaf monkeys (*Trachypithecus francoisi*, *Rhinopithecus avunculus*) in two protected tropical forests in northern Viet Nam in collaboration with Fauna & Flora International Indochina. Jun – Dec 1998.
5. Assistant to Dr. Marina Cords, Columbia, University, NY in research on patterns of reproductive and social behavior in wild blue monkeys (*Cercopithecus mitis*) in the Kakamega Forest, western Kenya. Jun – Sep 1997.

LABORATORY RESEARCH EXPERIENCE

1. Development of methods for the extraction and analysis of steroid hormones (glucocorticoids, estrogens, progesterone, testosterone) from feces from a diversity of captive wildlife species using radioimmunoassay (RIAs) and enzymeimmunoassays (EIAs) at the Wildlife Endocrinology Laboratory at the Cleveland Metroparks Zoo, Cleveland, OH. 2006 – 2009.
2. Development, optimization and validation of methods for the extraction and analysis of steroid hormones (glucocorticoids, estrogens, progesterone, testosterone) from feces from a diversity of wildlife species, including captive gelada baboons, using radioimmunoassay (RIAs) and enzymeimmunoassays (EIAs) in Dr. Steve Monfort's Reproductive Endocrinology Laboratory at the Center for Research & Conservation, Smithsonian National Zoological Park, Front Royal, VA. Jun – Oct 2006.
3. Analysis of perinatal fecal steroid hormones (glucocorticoids, estrogens, progesterone, testosterone) and their relationship to individual-based patterns of variation in mother infant interactions in wild yellow baboons in Amboseli, Kenya using radioimmunoassay (RIAs) in Dr. J. Altmann's Endocrine Laboratory, Princeton University, Princeton, NJ. Jan – Aug 2005.
4. Assisted Dr. Jessica Lynch in populational analyses of fecal steroid hormones and their life history correlates in perinatal Amboseli baboons in Dr. J. Altmann's Endocrine Laboratory, Princeton, NJ. Jan – Jun 2002.
5. Assisted Dr. Memuna Khan in the development and validation of RIAs for the analysis of fecal estrogens and progesterone in the Amboseli baboon population in Dr. J. Altmann's Endocrine Laboratory, Princeton, NJ. Jan – Jun 2001.
6. Molecular genetic analysis of patterns of variation in the serotonin transporter gene promoter region in the Amboseli baboon population in Dr. S. Alberts's Genetics Laboratory, Duke University, Durham, NC. May – Sep 2001.
7. Assisted Dr. Bea Perez-Sweeney in molecular genetic analyses of patterns of microsatellite variation between and within populations of the critically endangered Brazilian black lion tamarin (*Leontopithecus chrysopygus*) in Dr. D. Melnick's Population Genetics Laboratory, Columbia University, NY. Sep 1999 – May 2000.
8. Assisted Dr. Christine Sheppard of the Bronx Zoo, NY in analyses of morphometric variation in over 50 pheasant species in the collections at the American Museum of Natural History, NY. Sep 1996 – May 1997.
9. Examination of patterns of variation in the social behavior of two related species of storks, the common marabou stork (*Leptoptilos cruminiferus*) and the endangered lesser adjutant stork (*L. javanicus*), in captivity at the Bronx Zoo, NY. Jun – Sep 1996.

TEACHING EXPERIENCE

1. Lecturer, "Hormones and Behavior", Anthropology/Biology 456, Department of Anthropology, California State University Fullerton, Fall 2010, 2011, 2012 (49 students in 3 sections).
2. Lecturer, "Environmental Issues and Approaches", ENST 500, Environmental Studies Graduate Program, California State University Fullerton, Fall 2011 – Fall 2012 (22 students in 2 sections)
3. Lecturer, "Sexuality, Reproduction and Parenting in Humans and Other Animals", Anthropology 504T, Department of Anthropology, California State University Fullerton, Spring 2010 (15 students).

TEACHING EXPERIENCE (continued)

4. Lecturer, "Introduction to Physical Anthropology", Anthropology 101, Department of Anthropology, California State University Fullerton, Spring 2010 – Fall 2012 (262 students in 7 sections)
5. Lecturer, "Primate Behavior", Anthropology 301, Department of Anthropology, California State University Fullerton in Fall 2009 – Fall 2012 (429 students in 13 sections).
6. Teaching assistant, Evolution, Dr. Peter Grant, Princeton University, Spring 2002, led class discussions of readings from the primary literature, graded exams.
7. Teaching assistant, Natural History of Mammals, Dr. Daniel Rubenstein, Princeton University, Fall 2001, assisted in student research projects, graded exams.
8. Teaching assistant, Laboratory in Introductory Biology, Dr. James Gould, Princeton University, Fall 2000, organized and supervised demonstrations and student experiments, administered and graded exams.
9. Teaching assistant, Laboratory in Plant Physiology, Dr. Philip Ammirato, Barnard College, Spring 2000, organized and supervised student experiments, administered and graded exams.

MEETINGS ABSTRACTS

1. Moua, C., Fashing, P.J., **Nguyen, N.** (2012) Inter-annual variability in ranging ecology of wild gelada monkeys (*Theropithecus gelada*) at Guassa, Ethiopia from 2007-2011. American Society of Primatologists Annual Conference (June 2012)
2. Fashing, N.J., Ueckermann, E. Fashing, P.J., **Nguyen, N.** (2012) Prodorsal variation in a new species of *Bryobia* (Trombidiformes: Tetranychidae) from the Guassa Plateau, Menz Highlands, Ethiopia. European Association of Acarologists (July 2012)
3. Fashing, P.J., **Nguyen, N.**, Kerby, J.T., and Venkataraman, V.V. (2012). Feeding ecology of wild geladas (*Theropithecus gelada*) over an annual cycle at Guassa, Ethiopia. *American Journal of Physical Anthropology* 147:142.
4. Kerby, J.T., Venkataraman, V.V., Fashing, P.J., and **Nguyen, N.** (2012). Manual graminivory and feeding rates in gelada baboons. *American Journal of Physical Anthropology* 147:180.
5. **Nguyen, N.** and Fashing, P.J. (2012) Birth seasonality in relation to rainfall and food in wild geladas (*Theropithecus gelada*) at Guassa, Ethiopia: Variation within and between one-male units. *American Journal of Physical Anthropology* 147:223.
6. Escalante, C.C., **Nguyen, N.**, and Lewandowski, A. (2011). Sex differences in morbidity and mortality in captive Amur Tigers (*Panthera tigris altaica*) in North America: A review of necropsy reports (1960-2009). American Association of Zoo Veterinarians Annual Conference (October 2011)
7. Fashing, N., Ueckermann, E., Fashing, P., and **Nguyen, N.** (2011). A new *Bryobia* (Trombidiformes: Tetranychidae) from Ethiopia. African Acarological Symposium, Livingstone, Zambia.
8. Cash, J.F., Fashing, P.J., **Nguyen, N.**, Luteshi, P., and Opondo, W. (2010). Long-term trends in diurnal primate densities in natural and plantation forests at Kakamega Forest, Kenya. *American Journal of Physical Anthropology* S50:78-79.
9. Fashing, P.J., **Nguyen, N.**, Kerby, J.T., Lee, L.M., Nurmi, N.O., and Venkataraman, V.V. (2010). Patterns and sources of mortality among geladas (*Theropithecus gelada*) at Guassa, Ethiopia. *American Journal of Physical Anthropology* S50:103.

MEETINGS ABSTRACTS (continued)

10. Lee, L., Nurmi, N., **Nguyen, N.**, and Fashing, P.J. (2010). Observations of multiple live births in wild geladas (*Theropithecus gelada*) at Guassa, Ethiopia. *American Journal of Physical Anthropology* 550:153.
11. **Nguyen, N.**, Gesquiere, L., Alberts, S. C., Altmann, J. (2010). Sex differences in the mother infant relationship in wild baboons (*Papio cynocephalus*): Social, experiential, and hormonal correlates. *American Journal of Physical Anthropology* 550:177.
12. **Nguyen, N.**, Van Horn, R. C., Alberts, S. C., Altmann, J. (2009) "Friendships" between new mothers and adult males: Adaptive benefits and determinants in wild baboons (*Papio cynocephalus*). *American Journal of Primatology* 71: 65.
13. Fashing, P.J., and **Nguyen, N.** (2009). Gelada feeding ecology in a tall grass ecosystem: Influence of body size on diet. *American Journal of Primatology* 71: 60.
14. Fashing, P.J., **Nguyen, N.**, Kerby, J., Lee, L., Nurmi, N., Venkataraman, V. (2009). Two group takeovers, infanticides, and pregnancy terminations in *Theropithecus gelada* at Guassa, Ethiopia. Supplement to the American Association of Physical Anthropologists' meetings, Chicago, IL.
15. **Nguyen, N.**, Van Horn, R.C., Alberts, S.C., Altmann, J. (2008) "Friendships" Between new mothers and adult males: adaptive benefits and determinants in wild baboons (*Papio cynocephalus*). Midwest Primate Research Interest Group meetings, University of Notre Dame, South Bend, IN.
16. Amendolagine, L., Dennis, P., **Nguyen, N.** (2008). Hormonal and epidemiological monitoring of animal reproduction and health at Cleveland Metroparks Zoo. Primate Research Interest Group meetings, University of Notre Dame, South Bend, IN.
17. Fashing, P.J. and **Nguyen, N.** (2006) A preliminary study of gelada ranging patterns and habitat use in the Menz Highlands, Ethiopia. *American Journal of Primatology* 68(S1): 147.
18. **Nguyen N.**, Gesquiere L., Alberts S.C., (2006) Endocrine and social sources of variation in the mother-infant relationship in wild baboons in Amboseli, Kenya. *American Journal of Primatology* 68: 139-140.
19. **Nguyen, N.**, Gesquiere, L., Alberts, S.C., Altmann, J. (2005) Late pregnancy glucocorticoid hormones predict maternal responsiveness in wild baboons (*Papio cynocephalus*). Supplement to the Monkeys: Old and New conference, New York Consortium in Evolutionary Primatology, New York, NY.
20. **Nguyen, N.** (2004) Endocrine correlates of variation in mothering behavior in wild yellow baboons in Amboseli, Kenya. Supplement to the International Primatological Society meetings, Torino, Italy.
21. Fashing, P.J., Plumptre, A.J., Mulindahabi, F., Gakima, J.B., Masozera, M., Munanura, I., and **Nguyen, N.** (2004) Ranging patterns of an unusually large *Colobus angolensis* group in Nyungwe Forest, Rwanda. Supplement to the International Primatological Society meetings, Torino, Italy.

INVITED TALKS/SEMINARS

UCLA, Center for Behavior, Evolution & Culture, Los Angeles, CA, 2012
University of Minnesota, Department of Ecology, Evolution & Behavior, Minneapolis, MN, 2011
California State University Fullerton, Department of Biology, Fullerton, CA, 2010
University of California Riverside, Department of Biology, Riverside, CA, 2009
Southern California Primate Research Forum, CSU-San Bernardino, CA, 2009
John Carroll University, Department of Biology, University Heights, OH, 2009
Kent State University, Department of Anthropology, Kent, OH, 2007
Case Western Reserve University, Department of Biology, Cleveland, OH, 2007
Smithsonian Institution, Conservation & Research Center, Front Royal, VA, 2006
Cleveland Metroparks Zoo, Cleveland, OH, 2006