

Katharine M. Jack

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Department of Anthropology
Tulane University
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EDUCATIONAL RECORD:

- 2001 *Doctor of Philosophy*, University of Alberta, Anthropology/Primatology
Dissertation: Life history patterns of male white-faced capuchins (*Cebus capucinus*): Male-bonding and the evolution of multimale groups.
Committee members: Dr. L.M. Fedigan (Supervisor), Dr. M.S.M. Pavelka, Dr. J. Roland, Dr. K.B. Strier, Dr. P. Willoughby
- 1995 *Master of Arts*, University of Calgary, Anthropology/Primatology
Thesis: Mating strategies of peripheral male Japanese macaques.
Committee members: Dr. M.S.M. Pavelka (Supervisor), Dr. D. Haytt, Dr. A. Smart.
- 1992 *Bachelor of Science, Honours*. University of Calgary,
Anthropology/Primatology.
Honours thesis: The dynamics and function of bachelor groups in nine primate species. Supervisor: Dr. J.D. Paterson

PROFESSIONAL APPOINTMENTS:

- 2003 – present *Assistant Professor*
Tulane University, Department of Anthropology,
New Orleans, Louisiana
- 2002 – 2003 *Assistant Professor*
Appalachian State University, Department of Anthropology
Boone, North Carolina
- 2001 – 2002 *Visiting Assistant Professor*
Appalachian State University, Department of Anthropology
Boone, North Carolina
- 1996 – 2001 *Sessional Instructor*
University of Calgary, Department of Anthropology
Calgary, Alberta
- 1999 – 2000 *Instructor*
University of Saskatchewan, Extension Division
Saskatoon Seniors Continued Learning Inc., Saskatoon, SK

PUBLICATIONS:**Journals**

Fedigan L, Carnegie S and **Jack K.** In press. Predictors of reproductive success in female white-faced capuchins (*Cebus capucinus*). *American Journal of Physical Anthropology* (Accepted Feb. 2008).

Jack K., Lenz B, Healan E, Rudman S, Schoof V, and Fedigan M. In press. The effects of observer presence on the behavior of *Cebus capucinus* in Costa Rica. *American Journal of Primatology* (Accepted Nov. 2007).

Fedigan LM and **Jack K.** 2004. The Demographic and Reproductive Context of Male Replacements in *Cebus capucinus*. *Behaviour* 141(6):755-775.

Jack K. and Fedigan LM. 2004a. Male dispersal patterns in white-faced capuchins (*Cebus capucinus*) Part 1: Patterns and causes of natal dispersal. *Animal Behaviour*, 67(4): 761-769.

Jack K. and Fedigan LM. 2004b. Male dispersal patterns in white-faced capuchins, *Cebus capucinus* Part 2: Patterns and causes of secondary dispersal. *Animal Behaviour*, 67(4): 771-782

Jack K. 2003. Males on the move: Evolutionary significance of secondary dispersal in male nonhuman primates. *Primate Report* 67: 61-83 (non-refereed).

Jack K. 2003. Affiliative relationships among male white-faced capuchins (*Cebus capucinus*): Evidence of male bonding in a female bonded species. *Folia Primatologica* 74(1): 1-16.

Rose LM, Perry S, Panger M, **Jack K.**, Manson J, Gros-Louis J, MacKinnon KC and Vogel E. 2003. Interspecific interactions between *Cebus capucinus* and other species at three Costa Rican sites. *International Journal of Primatology* 24(4):759-796.

Perry S, Baker M, Fedigan L, Gros-Louis J, **Jack K.**, MacKinnon K, Manson J, Panger M, Pyle K and Rose L. 2003. Social Conventions in Wild Capuchin Monkeys, *Cebus capucinus*. *Current Anthropology* 44(2):241-268.

Jack K. 2001. Effect of male emigration on the vigilance behavior of coresident males in white-faced capuchin monkeys (*Cebus capucinus*). *International Journal of Primatology* 22(5): 715-732.

Fedigan LM and **Jack K.** 2001. Neotropical primates in a regenerating Costa Rican dry forest: A comparison of howler and capuchin population patterns. *International Journal of Primatology*, 22(5): 689-713.

Boinski S, **Jack K.**, Lamarsh C and Coltrane J. 1998. Squirrel monkeys in Costa Rica: Drifting to extinction. *ORYX* 32(1) 45-58.

Jack K. and Pavelka MSM. 1997. Mating Strategies of Peripheral Male Japanese Macaques, *Macaca fuscata*. *Primates* 38(4): 367-377.

Paterson JD and **Jack K.** 1993. A case of bilateral retention of deciduous canines in an olive baboon, *Papio cynocephalus anubis*, from Kenya. *Folia Primatologica*, 61(1):57-60.

Book Chapters

Jack K. 2007. The Cebines: Towards an Explanation of Variable Social Structure. In: *Primates in Perspective*, S. Bearder, S. Campbell, C., Fuentes, A., MacKinnon, K. and Panger, M. (eds), pp.107-123. Oxford University Press: Oxford.

Jack K and Fedigan L. 2006. Why be alpha male? Dominance and reproductive success in wild white-faced capuchins (*Cebus capucinus*). In: *New Perspectives in the Study of Mesoamerican Primates: Distribution, Ecology, Behavior and Conservation*. Estrada, A., Garber, P., Pavelka, M.S.M. and Luecke, L. (eds.), pp. 367-386. Kluwer publishing.

Perry S, Panger M, Rose L, Baker M, Gros-Louis J, **Jack K**, MacKinnon K, Manson J, Fedigan L and Pyle K. 2003. Traditions in wild white-faced capuchin monkeys. In: *The Biology of Traditions: Models and Evidence*, DM Fragaszy & S Perry (eds.), pp. 391-425. Cambridge University Press, Cambridge.

Manuscripts in preparation or review:

Schoof, VAM and **Jack K.** In preparation. Preliminary report on fecal androgen and cortisol levels of wild male white-faced capuchins (*Cebus capucinus*) at Santa Rosa National Park, Costa Rica. To be submitted to *American Journal of Primatology* in February 2008.

Jack K. Campos F. and King Z. In preparation. The conservation status of *Cebus albifrons aequatorialis* in coastal Ecuador. To be submitted to *Conservation Biology* March 2008.

Jack K and Fedigan L. In preparation. Explaining female dispersal in a female-philopatric species (*Cebus capucinus*) Abstract submitted to the XXII Congress of the International Primatological Society, Edinburgh, Scotland, August 2008. Publication submission planned for August 2008, special issue of Behaviour.

Schoof VAM, **Jack K** and Isbell L. In preparation. Birds of a feather stick together: traits promoting the evolution of parallel dispersal by male primates. Abstract submitted to the XXII Congress of the International Primatological Society, Edinburgh, Scotland, August 2008. Publication submission planned for August 2008, special issue of Behaviour.

PAPERS READ:Professional Conference Presentations (Published Abstracts)

2007. **Jack K** and Fedigan L. Long-term population trends in howler (*Alouatta palliata*) and capuchin (*Cebus capucinus*) monkeys in a regenerating Costa Rican dry forest. Presented at the 35th annual meeting of the Canadian Association of Physical Anthropologists in Banff, Canada, November 2007.

2007. **Jack K**, Lenz B, Schoof V, Healan E, Rudman S, and Fedigan LM. The effects of observer presence on the behavior of three groups of *Cebus capucinus* in Parque Santa Rosa, Costa Rica. Presented at the 75th annual meeting of the American Association of Physical Anthropologists in Philadelphia, PA.

2005 **Jack**. Conservation status of *Cebus albifrons aequatorialis* in forest fragments of coastal Manabi, Ecuador. Presented at the 28th annual meeting of the American Society of Primatologists, Portland, OR. *American Journal of Primatology* 66 Suppl. 1:132. (Volunteered)

2004 **Jack K** and Fedigan LM. How are male dispersal patterns, dominance rank and reproductive success related in wild white-faced capuchins (*Cebus capucinus*) in Santa Rosa National Park,

Costa Rica? Presented at the 27th annual meeting of the American Society of Primatologists, Madison, WI. (Mesoamerican Primatology symposium). *American Journal of Primatology* 62 Suppl. 1:88. (Invited participant)

2004 **Jack K** and Fedigan LM. Resident male replacement in *Cebus capucinus* groups. Presented at the 73rd meeting of the American Association of Physical Anthropologists, Tampa, FL. *American Journal of Physical Anthropology* Suppl. 38:119. (Volunteered)

2003. **Jack K** and Fedigan LM. Male dominance and reproductive success in white-faced capuchins (*Cebus capucinus*). Presented at the 72nd meeting of the American Association of Physical Anthropologists, Tempe, AZ. *American Journal of Physical Anthropology*, Suppl. 36:121-122. (Volunteered)

2002. **Jack K** and Fedigan LM. Life history of male white-faced capuchins (*Cebus capucinus*), Santa Rosa National Park, Costa Rica. Presented at the 71st meeting of the American Association of Physical Anthropologists, Buffalo, NY. *American Journal of Physical Anthropology*, Suppl 34: 89 (Volunteered)

2000. **Jack K**. Affiliative relationships among male white-faced capuchin monkeys (*Cebus capucinus*). Presented at the 28th annual meetings of the Canadian Association for Physical Anthropology. *Winner of Oschinsky-McKern Award for best student oral presentation (Volunteered)

1997. **Jack K**, Lamarsh C, Boinski S. and Coltrane J. Conservation Status of Costa Rican squirrel monkeys (*Saimiri oerstedii oerstedii*, *S.o.cintrinellus*). Presented at the 20th annual meeting of the American Society of Primatologists, San Diego, CA. *American Journal of Primatology*, 42(2):118 (Volunteered)

1997. **Jack K**. June Mating success among male Japanese Macaques at Arashiyama West. Presented at the 20th annual meeting of the American Society of Primatologists, San Diego, CA. *American Journal of Primatology*, 42(2):118 (Volunteered)

1996. **Jack K**. Mating tactics and mating behaviors of peripheral male Japanese macaques (*Macaca fuscata*). Presented at the 24th annual meeting of the Canadian Association for Physical Anthropology. (Volunteered)

1992 Paterson JD and **Jack K**. A case of bilateral retention of deciduous canines in an olive baboon, *Papio cynocephalus anubis*, from Kenya. Poster presentation XIVth Congress of the International Primatological Society Strasbourg. Page:351. (Volunteered)

1992. Paterson JD and **Jack K**. A case of bilateral retention of deciduous canines in an olive baboon, *Papio cynocephalus anubis*, from Kenya. Poster presentation, 15th annual meeting of the American Society of Primatologists. *American Journal of Primatology*, 27(1):50 (Volunteered)

Symposia Organized for Professional Conferences

2008. **Jack K** and Isbell L. Should I stay or should I go now? Dispersal opportunities, individual decisions, and consequences for wild primates. Symposium accepted for the XXII Congress of the International Primatological Society, Edinburgh, Scotland, August 2008. Twelve speakers have been confirmed as participants and the symposium has just been approved for a special issue of the journal Behaviour, with Jack and Isbell serving as guest editors.

Invited Lectures

2004. **Jack K.** Out with the old, in with the new: Resident male replacements in white-faced capuchin monkeys (*Cebus capucinus*). Newcomb College Center for Research on Women, Tulane University.

2001. **Jack, K.** Snow monkeys in South Texas: A relocation success story or disaster? Appalachian State University, Department of Biology Seminar Series.

RESEARCH FUNDING FROM NON-UNIVERSITY SOURCES:

Pending	National Geographic Society, Committee for Research and Exploration (\$23,950). Project title: Behavioral, hormonal, and genetic correlates of male-male relationships in wild white-faced capuchin monkeys (<i>Cebus capucinus</i>) (submitted January 8, 2008)
2004 - 2006	National Geographic Society, Conservation Trust (\$15,500). Project title: Conservation status of <i>Cebus albifrons aequatorialis</i> in the tropical dry forests of coastal Ecuador.
2003 - 2004	National Geographic Society, Conservation Trust Research Grant (\$12,500 USD); partial funding for above project.
2003 - 2004	Margot Marsh Biodiversity Foundation (Conservation International) (\$15,000 USD); partial project funding for above project.
1998 – 2001	National Geographic Society Research Grant (\$15,000 USD) (Doctoral research)
1997	Sigma Xi, Grants-in-aid of Research Award (\$600 USD) (Doctoral research)
1998	Ruggles-Gates Fund for Biological Anthropology, Royal Anthropological Institute (£600) (Doctoral research)

RECENT RESEARCH FUNDING FROM UNIVERSITY SOURCES

2006 -2009	Tulane University, Research Enhancement Fund (\$80,000; multi-year grant): Behavioral, genetic and hormonal correlates of male-male relationships in wild white-faced capuchin monkeys (<i>Cebus capucinus</i>).
2007	Stone Center for Latin American Studies, Faculty Summer Research grant (\$3320 summer research assistantship grant for Santa Rosa primate census)
2005	Newcomb College Faculty Research Grant (\$3600; Effects of habituation on the behavior and stress levels of wild nonhuman primates).
2005	Stone Center for Latin American Studies, Faculty Summer Research grant (\$2400; additional support for the above project)
2004 - 2005	Georges Lurcy Fund for Faculty Research (\$3000; Conservation Status of <i>Cebus albifrons aequatorialis</i> in coastal Ecuador)
2004	Committee on Research, Tulane University, New Faculty Summer research grants (\$4000; Conservation Status of <i>Cebus albifrons aequatorialis</i> in coastal Ecuador)

- 2004 Stone Center for Latin American Studies, Faculty support – summer research assistant (\$3600)
- 2004 Newcomb Fellowship, course development grant: Anthropology of Sex and Reproduction (\$3000)
- 2003 University Research Council, Appalachian State University (\$5000 USD) – Conservation Status of *Cebus albifrons aequatorialis* in coastal Ecuador
- 1998 Faculty of Graduate Studies and Research/Department of Anthropology, University of Alberta. Graduate Student Research Awards (\$1300 CAD) (Doctoral research)

HONORS, SCHOLARSHIPS AND AWARDS:

- 1999 – 2001 Izaak Walton Killam Memorial Scholarship (\$19,800, tuition, and \$1,500 research allowance) (Doctoral degree)
- 2000 Clifford Skitch Travel Award, Dept. of Anthropology, University of Alberta; for travel to the 28th annual meetings of the Canadian Association of Physical Anthropology (\$250) (Doctoral degree)
- 2000 Oschinsky-McKern Award for best podium presentation by a student at the 28th annual meetings of the Canadian Association for Physical Anthropology (\$200) (Doctoral degree)
- 1997 – 1999 Natural Sciences and Engineering Research Council Postgraduate Scholarship (\$34,800 CAD) (Doctoral degree)
- 1999 Andrew Stuart Graduate Prize, University of Alberta (\$4,000) (Doctoral degree)
- 1998 – 1999 Ralph Steinhauer Award of Distinction, Alberta Heritage Scholarship Fund (\$15,000 CAD) (Doctoral degree)
- 1998 & 1997 Walter H Johns Award, University of Alberta (\$3,300 CAD) (Doctoral degree)
- 1997 Gordon J Kaplan Graduate Student Award, University of Alberta (\$500 CAD to cover conference travel expenses) (Doctoral degree)
- 1996 – 1997 Ph.D. Recruitment Scholarship, University of Alberta (\$13,000 CAD plus tuition and fees); Honorary recipient 1997-1998 (Doctoral degree)

RECENT FIELD WORK:

- 2005 – present *Co-Principal Investigator*. On-going study of the life history and behavioral ecology of male white-faced capuchins in Santa Rosa National Park, Costa Rica. Collaborative research with Dr. Linda Fedigan, University of Calgary. This research also involves a longitudinal study of the effects of forest protection on the population structure of capuchin and howler monkeys)
- 2002 – 2006 *Principal Investigator*. Conservation status of *Cebus albifrons aequatorialis* in a tropical dry forest in coastal Ecuador. I use census data and comparative analyses

of primate densities as a means of determining the conservation status of this primate species.

- 1999 *Co-Principal Investigator*. Census of white-faced capuchin and mantled howler monkey populations in Santa Rosa National Park, Costa Rica. This was a collaborative project with Dr. Linda Fedigan as part of her >15 year project monitoring the effects of forest regeneration on primate populations.
- 1998 - 1999 *Principal Investigator*. Doctoral fieldwork studying male life history patterns in four groups of white-faced capuchins in Santa Rosa National Park, Costa Rica.
- 1996 *Co-Principal Investigator*. Census of squirrel monkeys (*Saimiri oerstedii*) in Costa Rica and assessment of current threats to their survival. P.I.: Dr. Sue Boinski, University of Florida.
- 1994 - 1996 *Graduate Research Assistant/Site Assistant/ MA Fieldwork*
Dr. Mary Pavelka, University of Calgary/South Texas Primate Observatory (Primate Sanctuary); study of male mating behavior in Japanese macaques

COURSES TAUGHT

Undergraduate

- Introduction to Physical Anthropology
- Primate Behavior and Ecology
- Human Osteology
- Primate Field School (in Ecuador)
- Anthropology of Sex and Reproduction
- Primate Evolution and Adaptation
- Primate Models of Human Social Evolution
- Method and Theory in Primatology
- Methods of Behavioral Observation in Primatology
- Research Methods and Design (in Ecuador)
- Ecuadorian Culture and Environment (in Ecuador)

Graduate

- Primate Behavior and Ecology
- Primate Evolution and Adaptation
- Primate Models of Human Social Evolution
- Theory in Primatology
- Anthropology of Sex and Reproduction

Continuing Education Courses (non-credit)

- Introduction to Biological Anthropology
- The Naked Ape: Contemporary Issues in the Evolution of Human Social Behaviour
- Monkey Business: An Introduction to the Nonhuman Primates

STUDENT SUPERVISION

Current Graduate Students:

Bryan Lenz (began fall 2004); Valerie Schoof (began part-time fall 2004, full-time fall 2005); Zdanna King (began fall 2005); Andrew Childers (began fall 2005; MA to be complete in August 2008).

Honors Theses Supervised:

2004. Mariah McAlister. Medicinal plant use by nonhuman primates. Tulane University, Department of Anthropology.

2003. Krystina Stoeppler. Cribraorbitalia and porotic hyperostosis in Native American populations, including analysis of chronic anemia to separate frequencies of infection and nutritional deficiencies. Appalachian State University, Department of Anthropology.

COMMITTEE SERVICE:

2007-2008 Academic Year:

Faculty Advisory Committee, Environment Studies

2005/2006 Academic Year:

- Newcomb College Institute, Faculty Advisory Council

2004/2005 Academic year:

- Committee on Tulane College (nominated to committee)
- Committee on Newcomb College (Invited position through 2007)
- Graduate Student Teaching Oversight Committee (GSTOC), Department of Anthropology, Tulane University

2003/2004 Academic year:

- GSTOC, Department of Anthropology, Tulane University

2002/2003 Academic year:

- Departmental Personal Committee, Department of Anthropology, Appalachian State University
- Faculty advisor, Anthropology Students Association, Appalachian State University

2001/2002; 2002/2003 Academic years:

Faculty advisor, Anthropology Students Association, Appalachian State University

NON-UNIVERSITY SERVICE:

- 2004 – present Audubon Nature Institute, New Orleans, LA – Institutional Animal Care and Use Committee
- 2004 – present American Society of Primatologists, Conservation Committee

I have served as a reviewer for the American Journal of Primatology, Folia Primatologica, American Journal of Physical Anthropology, Behaviour, Current Biology, Primates, Environmental Anthropology, the Leakey Foundation, and Primate Conservation Incorporated.

PROFESSIONAL AFFILIATIONS

- Member*, International Society of Primatologists, 1997 - present
- Member*, American Society of Primatologists, 1997 - present
- Member*, American Association of Physical Anthropologists, 2002 - present
- Member*, Canadian Association for Physical Anthropology, 1997 - present
- Member*, Sigma-Xi, 2002 - present

LANGUAGES

- English – first language
- Spanish – good comprehension of written and spoken
- French – comprehension of written and spoken