

Krista M. Milich
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Postdoctoral Research Fellow
Department of Anthropology
University of Texas at Austin
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EDUCATION

2012	Ph.D.	Department of Anthropology University of Illinois at Urbana-Champaign
2010	M.A.	Department of Anthropology University of Illinois at Urbana-Champaign
2004	B.S.	Anthropology-Zoology Honors Degree University of Michigan – Ann Arbor

PROFESSIONAL APPOINTMENTS

2015-2017	University of Texas at Austin – Department of Anthropology, Postdoctoral Research Fellow Supervisor: Anthony Di Fiore
2014-2015	Indiana University -The Kinsey Institute for Sex, Gender, and Reproduction & Department of Anthropology, Postdoctoral Research Fellow Supervisor: Virginia Vitzthum & Michael Muehlenbein
2013-2014	University of Chicago – Institute for Mind and Biology, Postdoctoral Scholar Supervisor: Dario Maestriperi
2004- 2005	Smithsonian Institution --Monitoring and Assessment of Biodiversity Program (SI/MAB), Program Assistant Supervisor: Jennifer Sevin
2000-2004	University of Michigan -- Institute of Gerontology, Research Assistant Supervisor: Richard Adelman

GRANT SUPPORT

Active Grants

2016	National Science Foundation Behavioral & Cognitive Sciences (PI: A. Di Fiore). Male Cooperation Among Atelins: Physiological Correlates of Intra- and Intergroup Relations. (\$408,273)
2015	The Nacey Maggioncalda Foundation Goldberg Conservation Grant. Conservation to Coexist: Participatory Action Research for Primate Conservation and Community Development. (\$14,900)

Pending Grants

2016	National Institutes of Health Rapid Assessment of Zika Virus (PI: J.P. Dudley). Evaluating the Presence of Zika Virus in Neotropical Primates. (Score: 35)
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Completed Grants

2015	Indiana University's 2015 Provost's Travel Award for Women in Science (\$500)
2014	Indiana University's 2014 Provost's Travel Award for Women in Science (\$500)
2012	American Society of Primatologists Conservation Grant (\$1,120)
2010	University of Illinois Block Grant (\$7,151)
2010	Columbus Zoo Conservation Fund (\$4,980)
2010	American Society of Primatologists Small Grant (\$1,480)

- 2010 Conservation International Primate Action Fund (\$3,000)
 2009 National Science Foundation Doctoral Dissertation Improvement Grant (\$14,721)
 2009 LSB Leakey Foundation Research Grant (\$11,930)
 2008 Idea Wild (\$1,100)
 2008 UIUC Graduate College Dissertation Travel Grant (\$4,832)
 2008 Sophie Danforth Conservation Fund (\$1,000)
 2008 The Explorers Club (\$1,500)
 2008 Primate Conservation, Inc. (\$2,922)
 2008 Earth and Society Initiative Summer Fellowship (\$2,000)
 2007 UIUC Department of Anthropology Summer Funding (\$4,300)
 2006 Beckman Institute Cognitive Science/Artificial Intelligence Award (\$2,000)

PUBLICATIONS

- 2016 **Milich K.M.** and Maestriperi D. Sex or Power? The function of male displays in rhesus macaques. *Behaviour* 153(3): 245-261.
- 2015 **Milich K.M.**, Deimel C., Schaeb's F.S., Thornburg J., Vitzthum V.J. and Deschner T. Links between breast cancer and birth weight: A direct test of the hypothesized association between size at birth and adult progesterone concentrations. *Hormones and Cancer* 6: 182-188.
- 2015 **Milich K.M.** Robert Martin: How We Do It: The Evolution and Future of Human Reproduction. *International Journal of Primatology* 36: 441-443.
- 2014 **Milich K.M.**, Stumpf R.M., Chambers J.M., and Chapman, C.A. Female red colobus monkeys maintain an ideal free distribution through novel foraging strategies in logged forests. *American Journal of Physical Anthropology* 154: 52-60.
- 2014 **Milich K.M.**, Bahr, J.M., Stumpf R.M., and Chapman, C.A. Timing is everything: expanding the cost-of-sexual-attraction hypothesis. *Animal Behaviour* 88: 219-224.
- 2013 Bahr J.M. and **Milich K.M.** Ovarian Physiology in Hoyer, PB (editor) *Ovarian Toxicology*, pp 3-13. Boca Raton: CRC Press
- 2011 Stumpf R.M., Martinez-Mota R., **Milich K.M.**, Righini N., and Shattuck M.R. Sexual Conflict in Primates. *Evolutionary Anthropology* 20: 62-75.
- 2009 **Milich K.M.** and Fish D. Case Study #5 (The Generation Gap Game), in Adelman R.C. (editor), *Aging Awakenings: Assisted-Living Residents Teach University Students to Overcome Ageism*, pp. 119-140. Ann Arbor, Michigan: RC Adelman.

In Press

- 2017 Chapman C.A. and **Milich K.M.** Logging has complex impacts on primates that are often function of variables unrelated to timber extraction in Fuentes A. et al. (eds) *The International Encyclopedia of Primatology*. New York: Wiley-Blackwell Press.
- 2017 **Milich K.M.** The looming legacy of deforestation for red colobus monkeys in Kibale National Park in Dore K.M., Riley E.P., and Fuentes A. (eds) *Ethnoprimatology: A Practical Guide to Research on the Human-Nonhuman Primate Interface*. Cambridge University Press.
- 2017 Van Belle S. and **Milich K.M.** Male Reproductive Endocrinology in Fuentes A. et al. (eds) *The International Encyclopedia of Primatology*. New York: Wiley-Blackwell Press.
- 2017 **Milich K.M.** and Van Belle S. Female Reproductive Endocrinology in Fuentes A. et al. (eds) *The International Encyclopedia of Primatology*. New York: Wiley-Blackwell Press.

In revisions

2017 **Milich K.M.**, Georgiev A.V., Petersen, R.M., Emery Thompson M., and Maestripieri D. Mating effort is associated with high glucocorticoid concentrations in high-ranking male rhesus macaques (*Macaca mulatta*). *Hormones and Behavior*.

In Prep.

- 2017 **Milich K.M.**, Link, A., and Di Fiore, A Demography and life history in wild white-bellied spider monkeys (*Ateles belzebuth*).
- 2017 **Milich K.M.**, Deloff C., Harris A.S., Shattuck M., Stumpf R. and Bunzl M. From homosexuality to sexual plasticity: changing the focus of human sexuality research.
- 2017 **Milich K.M.** and Maestripieri D. Coalition patterns in male rhesus macaques.
- 2017 **Milich K.M.**, Petersen RM, Bahr JM, and Chapman CA. Variation in reproductive, stress, and energetic indicators in male red colobus monkeys (*Procolobus rufomitratus*).
- 2017 **Milich K.M.**, Stumpf R.M., Chapman C.A., and Bahr J.M. Female red colobus monkeys maintain reproductive function in degraded habitats.

PUBLISHED ABSTRACTS

- 2016 **Milich K.M.**, Georgiev A.V., Petersen R.M., Thompson M.E., and Maestripieri D. Social status, seasonality, and stress: Variation in glucocorticoid concentrations of high-ranking male rhesus macaques (*Macaca mulatta*). *American Journal of Physical Anthropology* 159: 229.
- 2015 **Milich K.M.**, Dubuc C., Winters S., Allen W.L., Rosenfield K.A., Graham S., Higham J.P., and Maestripieri D. Red-hot males: Sexual strategies of high-ranking male rhesus macaques (*Macaca mulatta*). *American Journal of Physical Anthropology* 156 (S60): 225.
- 2014 **Milich KM** & Maestripieri D. Rank, reproductive success, and rates of agonistic and affiliative behaviors in rhesus macaques. *American Journal of Primatology* 76 (S1): 80.
- 2014 **Milich K.M.** and Maestripieri D. Sex or power? The function of male displays in rhesus macaques. *American Journal of Physical Anthropology* 153 (S58): 185.
- 2013 **Milich K.M.**, Petersen R.M., and Bahr J.M. Social, not ecological, conditions impact reproductive & stress hormones in male red colobus monkeys (*Procolobus rufomitratus*) in Kibale National Park, Uganda *American Journal of Primatology* 75 (S1):73.
- 2013 Petersen R.M., **Milich K.M.**, and Bahr J.M. Methodological considerations for using C-peptide concentrations to assess energetic status in adult red colobus monkeys (*Procolobus rufomitratus*) in Kibale National Park. *American Journal of Primatology* 75 (S1): 88.
- 2013 **Milich K.M.** The looming legacy of deforestation for red colobus monkeys in Kibale National Park. *American Journal of Physical Anthropology* 150 (S56): 198.
- 2012 **Milich K.M.**, Stumpf R.M., Chapman C.A., and Bahr J.M. Dietary, behavioral, and hormonal comparisons of female red colobobus monkeys (*Procolobus rufomitratus*) in logged and unlogged areas of Kibale National Park, Uganda. *American Journal of Physical Anthropology* 147 (S54): 214.
- 2011 **Milich K.M.** and Stumpf R.M. The impact of habitat quality on reproductive behaviors and activity budgets in female red colobus monkeys (*Procolobus rufomitratus*) in Kibale National Park, Uganda. *American Journal of Primatology* 73 (S1): 74.

- 2011 **Milich K.M.**, Stumpf R.M., and Bahr J.M. The impact of habitat quality on reproduction in female red colobus monkeys (*Procolobus rufomitratus*) in Kibale National Park, Uganda. *American Journal of Physical Anthropology* 144 (S52): 215.
- 2008 **Milich K.M.**, Stumpf R.M., and Bahr J.M. The effects of deforestation on stress and reproductive hormone levels in red colobus monkeys (*Ptilocolobus tephrosceles*) (abstract). *American Journal of Physical Anthropology* 135 (S46): 155.

PRESENTATIONS (not including those with published abstracts)

- 2016 **Milich K.M.**, Link A., and Di Fiore A. Demography and life history in wild white-bellied spider monkeys (*Ateles belzebuth*). International Primatological Society, Chicago, IL
- 2016 Abondano L., **Milich K.M.**, Ziegler T., and Di Fiore A. Noninvasive monitoring of female reproductive hormones from fecal samples of wild lowland woolly monkeys (*Lagothrix lagotricha poeppigii*). International Primatological Society, Chicago, IL
- 2014 Danzy Cramer J., **Milich K.M.**, Gaetano T.J., Grobler J.P., Stumpf R., Schmitt C.A., Freimer N., and Turner T.R. A preliminary investigation of the relationship between blue sexual skin color and fecal cortisol. International Primatological Society, Hanoi, Vietnam
- 2014 **Milich K.M.** and Maestripieri D. The good ol' boys' club: coalition patterns in male rhesus macaques. Indiana University Animal Behavior Conference, Bloomington, IN
- 2013 **Milich K.M.** How *they* do it: The impact of social and ecological factors on primate reproduction in Kibale National Park, Uganda, and Cayo Santiago, Puerto Rico. Guest Speaker, Kinsey Institute, Indiana University, Bloomington, IN
- 2013 **Milich K.M.** The search for the "gay gene" and other wild goose chases. Guest Speaker, Kinsey Institute, Indiana University, Bloomington, IN
- 2013 **Milich K.M.** and Maestripieri D. Sex or Power? The function of male displays in rhesus macaques. Midwest Primate Interest Group. Ames, Iowa
- 2013 **Milich K.M.**, Petersen R.M., Chapman C.A., and Bahr J.M. The impact of social and ecological conditions on physiological markers in red colobus monkeys (*Procolobus rufomitratus*) in Kibale National Park, Uganda. International Society of Wildlife Endocrinology. Chicago, IL
- 2013 Petersen R.M., **Milich K.M.**, Chapman C.A. Strategies for survival: association patterns of red colobus monkeys in Kibale National Park, Uganda. Midwest Primate Interest Group. Ames, Iowa
- 2013 **Milich K.M.** and Chapman C.A. Adjusting to 'poor habitats': the conservation value of protecting deforested land. Behaviour 2013. NewcastleGateshead, UK
- 2013 **Milich K.M.** Primate reproduction is impaired by loss of wood: conservation implications of logging primate habitats. Guest speaker, Conservation Leadership Program, Cambridge University, UK
- 2012 **Milich K.M.** Primate Reproduction. Guest Lecture, Advanced Reproductive Biology (AnSci 431), University of Illinois
- 2012 **Milich K.M.**, Stumpf R.M., and Bahr J.M. Timing is Everything: Expanding the cost-of-sexual-attraction hypothesis. International Primatological Society Annual Meetings, Cancun, Mexico
- 2012 **Milich K.M.** Loss of wood reduces mating opportunities. Guest Lecture, Evolution & Biology of Human Behavior (Anth 52A), New York University
- 2012 **Milich K.M.** The Evolution of Human Sexual Behavior. Guest Speaker, Rotary Club, Champaign, IL

- 2011 **Milich K.M.** Conservation in Kibale National Park
Guest Lecture, Primate Conservation (Ev Anth 184.S), Duke University, Durham, NC
- 2011 **Milich K.M.** Ecological Stressors
Guest Lecture, Stress: Evolution, biology, behavior, and health (Ev Anth 180.S),
Duke University, Durham, NC
- 2011 **Milich K.M.,** Stumpf R.M., and Bahr J.M. Habitat quality and hormone profiles in female red colobus monkeys (*Procolobus rufomitratus*) in Kibale National Park, Uganda
International Society of Wildlife Endocrinologists Annual Meeting, Toronto, ON
- 2011 **Milich K.M.** The impact of habitat quality on female reproduction in the red colobus monkeys of Kibale National Park, Uganda
Guest Speaker, The Animal Behavior Seminar Series, University of Chicago, Chicago, IL
- 2011 **Milich K.M.,** Stumpf R.M. and Bahr J.M. Physiological differences in female red colobus monkeys (*Procolobus rufomitratus*) in logged vs. unlogged areas of Kibale National Park.
Midwest Primate Interest Group Meeting, Kent State University, Kent, OH
- 2011 **Milich K.M.,** Stumpf R.M. and Bahr J.M. Female reproductive physiology and behavior in red colobus monkeys, *Procolobus rufomitratus*. Animal Behavior Society Meeting, University of Indiana, Bloomington, IN
- 2011 **Milich K.M.** The impact of habitat quality on reproduction in female red colobus monkeys (*Procolobus rufomitratus*) in Kibale National Park, Uganda. Graduates in Ecology and Evolutionary Biology Symposium, University of Illinois
- 2010 **Milich K.M.** The impact of habitat quality on reproduction in female red colobus monkeys in Kibale National Park, Uganda
Guest Speaker, Behavioral Ecology Lab Meeting, Department of Human Evolutionary Biology, Harvard University, Cambridge, MA
- 2010 Chambers J.M. and **Milich K.M.** The effects of deforestation on feeding tree use in red colobus monkeys (*Procolobus rufomitratus*) in Kibale National Park, Uganda. Midwest Primate Interest Group Annual Meeting, Chicago, IL
- 2010 **Milich K.M.** Primate conservation: an introduction and case study
Guest Lecture, University of Liverpool Field Course, Kibale National Park, Uganda
- 2009 **Milich K.M.** The red colobus of Kibale National Park: research and conservation
Guest Lecture, Uganda Wildlife Training Institute, Kibale National Park, Uganda
- 2009 **Milich K.M.** Habitat quality and female red colobus reproduction in Kibale National Park
Guest Lecture, Imperial College Tropical Biology Field Course, Kibale, Uganda
- 2009 **Milich K.M.** Habitat quality and female red colobus reproduction in Kibale Forest
Guest Lecture, Makerere University Biological Field Station Veterinary Course, Uganda
- 2008 **Milich K.M.** The effects of deforestation on red colobus (*Piliocolobus tephrosceles*) habitat in and around Kibale National Park, Uganda. Department of Anthropology Graduate Student Symposium, Urbana, IL
- 2006 **Milich K.M.** and Mitani J.C. Social behavior in a captive community of young bachelor gorillas.
Midwest Primate Interest Group Meeting, Urbana, IL

RESEARCH EXPERIENCE

- 2016 Behavioral, microbial, and hormonal variation in spider monkeys and woolly monkeys.
Supervisor: Anthony Di Fiore, University of Texas at Austin
- 2015 Genetic correlates of immune function and steroid activity in macaques.
Supervisor: Michael Muehlenbein, Indiana University

- 2014-2015 Determinants and consequences of variation in women's reproductive functioning & Population dynamics in Greenland (Field work in Greenland).
Supervisor: Virginia Vitzthum, Indiana University
- 2013-2015 Behavioral and hormonal correlates of reproductive success in male rhesus macaques.
Supervisor: Dario Maestriperi, University of Chicago
- 2012-2015 Long-term monitoring of red colobus monkeys (*Procolobus rufomitratus*) and female reproductive parameters in anthropogenically modified habitats.
Collaborator: Jessica Rothman, Hunter College of The City University of New York
- 2010-2014 The use of molecular markers and ultrasonography for early detection of ovarian cancer in the chicken, a model for human ovarian cancer and the impact of diet.
Supervisors: Janice Bahr, University of Illinois, and Animesh Barua, Rush University
- 2011 Chimpanzee Reproduction and Enzyme Immunoassay Hormone Analysis
Supervisor: Rebecca Stumpf, University of Illinois at Urbana-Champaign
- 2011 Hormonal correlates of sexual skin color in free ranging male vervet monkeys
Collaborators: Jennifer Danzy & Trudy Turner, University of Wisconsin-Milwaukee
- 2007-2008 The effects of deforestation on reproductive hormone concentrations in adult male and female red colobus monkeys; Supervisors: Rebecca Stumpf and Janice Bahr, UIUC
- 2004 Intersexual social relationships in mantled howler monkeys (*Alouatta palliata*)
Supervisor: Katherine MacKinnon, St. Louis University
- 2003-2004 Social behavior in a captive community of young bachelor gorillas (*Gorilla gorilla gorilla*), Detroit Zoological Society; Supervisor: John Mitani, University of Michigan

TEACHING EXPERIENCE

- Spring 2016 Adjunct Professor, Biology 1305, Animal Behavior, St. Edward's University
- Spring 2016 Adjunct Professor, Biology 1305, Wildlife Conservation, St. Edward's University
- Fall 2015 Adjunct Professor, Biology 1305, Animal Behavior. St. Edward's University.
- Fall 2015 Adjunct Professor, Anth 2033, Introduction to Physical Anthropology. UTSA.
- Fall 2015 Guest Lecture, Anth 346L, Primate Social Behavior. University of Texas at Austin.
- Spring 2015 Adjunct Professor, Anth B200, Introduction to Bioanthropology. Indiana University.
- Fall 2014 Adjunct Professor, Anth B200, Introduction to Bioanthropology. Indiana University.
- Fall 2012 Instructor, Anthropology 102, Human Origins and Culture. University of Illinois.
- Fall 2012 Course Development, Anth 143 Online, Biology of Human Behavior. U. of Illinois.
- Summer 2012 Instructor, Anthropology 143 Online, Biology of Human Behavior. University of Illinois.
- Spring 2012 Instructor, Anthropology 143 Online, Biology of Human Behavior. University of Illinois.
- Fall 2011 Instructor, Anthropology 143 Online, Biology of Human Behavior. U. of Illinois.
- Spring 2011 Temporary Lecturer, Anthropology 243, Sociality of Great Apes. University of Illinois.
- Fall 2010 Teaching Assistant, Anthropology 143, Biology of Human Behavior. U. of Illinois.
- Summer 2010 Instructor, Anthropology 143 Online, Biology of Human Behavior. University of Illinois.
- Summer 2008 Instructor, Anthropology 143, Biological Bases for Human Behavior. U. of Illinois.
- Spring 2008 Teaching Assistant, Anthropology 102, Human Origins and Culture. U. of Illinois.
- Fall 2007 Teaching Assistant, Anthropology 249, Evolution and Human Disease. U of Illinois.
- Spring 2007 Teaching Assistant, Anthropology 102, Human Origins and Culture. U. of Illinois.
- Fall 2006 Teaching Assistant, Anthropology 143, Biological Bases for Human Behavior. U. Illinois
- Spring 2006 Teaching Assistant, Anthropology 249, Evolution and Human Disease. U of Illinois.
- Fall 2005 Teaching Assistant, Anthropology 102, Human Origins and Culture. U. of Illinois.
- Summer 2005 Instructor, Monitoring & Assessment of Biodiversity Course. Smithsonian Institution.
- Summer 2005 Instructor, BP Conservation Program Course. Smithsonian Institution.

UNDERGRADUATE & GRADUATE MENTORING

Josephine Chambers (BS, Integrative Biology, University of Illinois, 2010)
Elsa Holden (BS, Animal Sciences, University of Illinois, 2011)
Jacob Schanks (BS, Animal Sciences, University of Illinois, 2012)
Margaret Malinowski (BS, Animal Sciences, University of Illinois, 2012)
Rachel Petersen (BS, Animal Sciences, University of Illinois, 2013)
Diana Christie (Post-graduate research experience, Cayo Santiago, 2013)
Clement Ludcher (Post-graduate research experience, Cayo Santiago, 2013)
Jennifer Burch (Post-graduate laboratory training, Indiana University, 2014)
Rebecca Bedwell (Post-graduate laboratory training, Indiana University, 2014)
Meagan Guilfoyle (Graduate laboratory training, Indiana University, 2014)
Jenny Wong (BA, Human Evolutionary Biology, Harvard University, 2015)
Julia Hyman (BA, Human Evolutionary Biology, Harvard University, 2015)
Sophia Graham (Washington University, expected graduation 2016)
Caroline Deimel (Ph.D. Candidate, Indiana University, 2014)
Lydia Griffiths (BA, Anthropology, Indiana University, 2015)
Anne George (Undergraduate student, University of Texas at Austin)
Alex Wagner (Undergraduate student, University of Texas at Austin)
Elizabeth Coggeshall (Undergraduate student, University of Texas at Austin)
Laura Abondano (Ph.D. Candidate, University of Texas at Austin)

FIELD OUTREACH & MENTORING

2013-2017 Conservation 2 Coexist: Participatory Action Research for Primate Conservation and Community Development; Collaboration with Kugonza Moses and Busobozi Richard on local initiative to reduce crop raiding in Uganda. (\$1500 from American Society of Primatologists Conservation Grant; laptop, solar charging station, and GPS from Idea Wild; £4811 from The Rufford Foundation)

2014-2017 Ebola Survivor Corps: Scientific and Technical Advisory Board; Collaboration with Sarah Paige (University of Wisconsin) on a community-based project to empower Ebola survivors in Sierra Leone to become health care workers.

EDUCATION OUTREACH

Girl Day STEM Festival – University of Texas outreach for K-12 girls interested in STEM fields
Expanding Your Horizons- STEM outreach for middle school girls in Chicago

PROFESSIONAL MEMBERSHIPS

2011-present American Society of Primatologists (on the Conservation Committee)
2011-present International Primatological Society
2011-present American Association of Physical Anthropologists
2013-2015 Graduate Women in Science
2011-2014 International Society of Wildlife Endocrinology
2008-2013 Animal Behavior Society

REVIEWER FOR

Journals

Hormones and Behavior
International Journal of Primatology
Biology Letters
Canadian Journal of Zoology
Primates

Grants

American Society of Primatologists

National Geographic Society

Primate Conservation, Inc.

Books

Building Babies: Primate Development in Proximate and Ultimate Perspective