

CURRICULUM VITAE

MARTIN NICHOLAS MULLER

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Education

2002 University of Southern California, Ph.D. in Anthropology
1994 University of Southern California, B.A. in Anthropology (*Summa Cum Laude*)

Research Interests

Behavioral ecology, Reproductive ecology, Endocrinology, Primate models in human evolution

Academic Positions

2011- University of New Mexico, Department of Anthropology
Associate Professor

2007-2011 University of New Mexico, Department of Anthropology
Assistant Professor

2004-2007 Boston University, Department of Anthropology
Assistant Professor

2004 Harvard University, Department of Anthropology
Postdoctoral Fellow

2003 University of Michigan, Department of Anthropology
Visiting Research Investigator

1999-2002 Harvard University, Department of Anthropology
Postdoctoral Fellow

Professional Service

2013- Scientific Executive Committee, The Leakey Foundation
2010- Consulting Editor, *Human Nature*

Awards and Fellowships

- 1998 Haynes Foundation Dissertation Fellowship
- 1994 University of Southern California, All-University Pre-Doctoral Merit Fellowship
- 1994 Phi Beta Kappa
- 1990 University of Southern California, Dean's Scholarship

Active Research Grants

- 2014 National Science Foundation. Developmental integration and the ecology of life histories in phylogenetic perspective. MN Muller (PI), SV Nelson, M Emery Thompson & RW Wrangham (3-year grant: \$221,004)

Completed Research Grants

- 2012 Leakey Foundation. Coalitions and alliances in wild chimpanzees. MN Muller & RW Wrangham (\$22,000)
- 2010 Leakey Foundation. Stress and the costs of reproduction in wild female chimpanzees. M Emery Thompson, MN Muller & RW Wrangham (\$21,700)
- 2009 National Science Foundation. Stress, energetics and the costs of reproduction in wild chimpanzees. MN Muller, M Emery Thompson & RW Wrangham (\$150,000)
- 2004 National Science Foundation: Long Term Research in Environmental Biology (5-year grant with RW Wrangham and I Gilby). Ecology and endocrinology of aggression in chimpanzees. (\$298,821)
- 2004 National Institutes of Health (PI: Beatrice Hahn). Molecular epidemiology and natural history of SIVcpz. (Muller subcontract: \$333,931)
- 2002 L.S.B. Leakey Foundation. Testosterone and paternal care in Hadza foragers, northern Tanzania. (\$7,440)
- 2002 Arthur Green Fund. Testosterone and paternal care in Hadza foragers, northern Tanzania. (\$3,500)
- 1998 National Science Foundation (with RW Wrangham and PT Ellison). Endocrine aspects of aggression and dominance in chimpanzees. (\$212,982)
- 1997 National Science Foundation (dissertation improvement grant) Testosterone, aggression and dominance in wild chimpanzees. (\$10,000)
- 1997 L.S.B. Leakey Foundation. Endocrine aspects of aggression and dominance in chimpanzees of the Kibale Forest, Uganda. (\$5,985)

Laboratory Experience

- 2007- Co-Director: Hominoid Reproductive Ecology Laboratory, University of New Mexico
- 2004-2007 Director: Reproductive Ecology Laboratory, Boston University
- 1999-2004 Reproductive Ecology Laboratory, Harvard University Measuring steroid hormone (testosterone, cortisol, estradiol) concentrations in saliva and urine by radioimmunoassay and enzyme assay. Developing testosterone and cortisol assays for chimpanzee urine. Validating methods for field collection of chimpanzee urine samples.

Field Research

Chimpanzees

2004-present: Co-Director (with Richard Wrangham), Kibale Chimpanzee Project.

More than 48 months observing wild chimpanzees in Tanzania (Gombe National Park) and Uganda (Kibale National Park):

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|------------------------------|--|
| 2017 (January) | Kibale National Park, Uganda |
| 2016 (June-July) | Kibale National Park, Uganda |
| 2015 (June-July) | Kibale National Park, Uganda |
| 2014 (January, June-July) | Kibale National Park, Uganda |
| 2013 (July-August) | Kibale National Park, Uganda |
| 2012 (January, June-July) | Kibale National Park, Uganda |
| 2011 (January) | Kibale National Park, Uganda |
| 2010 (January, July) | Kibale National Park, Uganda |
| 2009 (July) | Kibale National Park, Uganda |
| 2008 (June) | Kibale National Park, Uganda |
| 2007 (June) | Kibale National Park, Uganda |
| 2006 (January, June-July) | Kibale National Park, Uganda |
| 2005 (August-September) | Kibale National Park, Uganda |
| 2004 (July-August, November) | Kibale National Park, Uganda |
| 2002 (July-August) | Kibale National Park, Uganda |
| 2001 (June) | Gombe National Park, Tanzania |
| 2000 (July) | Gombe National Park, Tanzania |
| 1999 (July-August) | Kibale National Park, Uganda |
| 1997-1998 (11/97 to 12/98) | Kibale National Park, Uganda
(Field Manager: Kibale Chimpanzee Project) |
| 1997 (July) | Kibale National Park, Uganda |
| 1996 (January-August) | Ngogo, Kibale National Park, Uganda
(Field Manager: Ngogo Chimpanzee Project) |
| 1994 (September-December) | Gombe National Park, Tanzania |

Humans

- 2003 (June-August)
Reproductive ecology of Hadza foragers and Datoga pastoralists in northern Tanzania.

Publications

Books

- 2017 **Muller MN**, RW Wrangham & DR Pilbeam (editors). *Chimpanzees and Human Evolution*. Cambridge: Harvard University Press.
- 2009 **Muller MN** & RW Wrangham (editors). *Sexual Coercion in Primates: An Evolutionary Perspective on Male Aggression Against Females*. Cambridge: Harvard University Press.

Journal Articles and Book Chapters

- In prep Georgiev AV, M Emery Thompson, **MN Muller** & RW Wrangham. Diurnal variation in urinary C-peptide production in wild chimpanzees is related to ripe fruit feeding schedules.
- In review Scully EJ, S Basnet, RW Wrangham, MN Muller, E Otali, D Hyeroba, KA Grindle, TE Pappas, M Emery Thompson, Z Machanda, KE Watters, AC Palmenberg, JE. Gern and TL Goldberg. Lethal respiratory epidemic in wild chimpanzees associated with human rhinovirus C. *PLoS Pathogens*.
- In review Gilby IC, ZP Machanda, RC O'Malley, CM Murray, EV Lonsdorf, K Walker, DC Mjungu, E Otali, **MN Muller**, M Emery Thompson, AE Pusey & RW Wrangham. Predation by female chimpanzees: toward an understanding of sex differences in meat acquisition in the last common ancestor of *Pan* and *Homo*. *Journal of Human Evolution*.
- In review Bray J, M Emery Thompson, **MN Muller**, RW Wrangham & ZP Machanda. The development of feeding behavior in wild chimpanzees (*Pan troglodytes schweinfurthii*). *American Journal of Physical Anthropology*.
- In review Alvarado LC, **MN Muller**, MA Eaton, M Emery Thompson. Steroid hormone reactivity in fathers watching their children compete. *Human Nature*.
- 2017 **Muller MN**. Introduction: Chimpanzees and human evolution. In MN Muller, RW Wrangham & DR Pilbeam (editors). *Chimpanzees and Human Evolution*. Cambridge: Harvard University Press.
- 2017 **Muller MN**. Introduction: Chimpanzees and human uniqueness. In MN Muller, RW Wrangham & DR Pilbeam (editors). *Chimpanzees and Human Evolution*. Cambridge: Harvard University Press.
- 2017 **Muller MN**. Sexual coercion in chimpanzees and humans. In MN Muller, RW Wrangham & DR Pilbeam (editors). *Chimpanzees and Human Evolution*. Cambridge: Harvard University Press.

- 2017 **Muller MN** & DR Pilbeam. Evolution of the human mating system. In MN Muller, RW Wrangham & DR Pilbeam (editors). *Chimpanzees and Human Evolution*. Cambridge: Harvard University Press.
- 2016 **Muller MN**. Testosterone and reproductive effort in male primates. *Hormones and Behavior*.
- 2016 Wrangham RW, K Koops, ZP Machanda, S Worthington, AB Bernard, NF Brazeau, R Donovan, J Rosen, C Wilke, E Otali, **MN Muller**. Distribution of a chimpanzee social custom is explained by matrilineal relationship rather than conformity. *Current Biology*. 22: 3033-3037.
- 2016 Moeller AH, A Caro-Quintero, D Mjungu, A Georgiev, EV Lonsdorf, **MN Muller**, AE Pusey, M Peeters, BH Hahn & H Ochman. Cospeciation of gut microbiota with hominids. *Science*. 353: 380-382.
- 2016 Emery Thompson M, **MN Muller**, K Sabbi, ZP Machanda, E Otali & RW Wrangham. Faster reproductive rates trade off against offspring growth in wild chimpanzees. *PNAS*. 113: 7780-7785.
- 2016 Ahuka-Mundeke S, O Lunguya-Metila, V Mbenzo-Abokome, C Butel, B-I Inogwabini, V Omasombo, J-J Muyembe-Tamfum, E Delaporte, AV Georgiev, **MN Muller**, J-BN Ndjango, Y Li, BH Hahn, M Peeters, A Ayoub. Genetic diversity of STLV-2 and interspecies transmission of STLV-3 in wild-living bonobos. *Virus Evolution*. 2 (1), vew011.
- 2016 Fedurek P, KE Slocombe, DK Enigk, M Emery Thompson, RW Wrangham & **MN Muller**. The relationship between testosterone and long-distance calling in wild male chimpanzees. *Behavioral Ecology and Sociobiology*. 70: 659-672.
- 2016 Emery Thompson M & **MN Muller**. Comparative perspectives on human reproductive behavior. *Current Opinion in Psychology*. 7: 61-66.
- 2015 Gilby IC, ZP Machanda, DC Mjungu, J Rosen, **MN Muller**, AE Pusey, RW Wrangham. Impact hunters catalyze cooperative hunting in two wild chimpanzee communities. *Philosophical Transactions of the Royal Society B*. 370: 20150005.
- 2015 Rushmore J, AB Allison, EE Edwards, U Bagal, S Altizer, MR Cranfield, TC Glenn, H Liu, A Mudakikwa, L Mugisha, **MN Muller**, RM Stumpf, ME Thompson, RW Wrangham & MJ Yabsley. Screening great apes for putative sexually transmitted diseases: evidence of Trichomonadidae infections in wild chimpanzees (*Pan troglodytes*). *American Journal of Primatology*. 77: 1075-1085.

- 2015 Alvarado LC, **MN Muller**, M Emery Thompson, M Klimek, I Nenko & G Jasienska. The Paternal Provisioning Hypothesis: Effects of workload and testosterone production on men's musculature. *American Journal of Physical Anthropology*. 158: 19-35.
- 2014 Emery Thompson M, **MN Muller** & RW Wrangham. Male chimpanzees compromise the foraging success of their mates in Kibale National Park, Uganda. *Behavioral Ecology and Sociobiology*. 68: 1973-1983.
- 2014 Wilson ML, C Boesch, T Furuichi, IC Gilby, C Hashimoto, CL Hobaiter, G Hohmann, N Itoh, K Koops, JN Lloyd, T Matsuzawa, JC Mitani, DC Mjungu, D Morgan, R Mundry, **MN Muller**, M Nakamura, J Pruett, AE Pusey, J Riedel, C Sanz, AM Schel, N Simmons, M Waller, DP Watts, F White, R Wittig, K Zuberbühler & RW Wrangham. Lethal aggression in *Pan* is best explained by adaptive strategies, rather than human impacts. *Nature*. 513: 414-417.
- 2014 Georgiev AV, AF Russell, E Otali, M Emery Thompson, **MN Muller** & RW Wrangham. The foraging costs of male mating effort in chimpanzees (*Pan troglodytes schweinfurthii*). *International Journal of Primatology*. 35: 725-745.
- 2014 Liu W, Y Li, KS Shaw, GH Learn, L Plenderleith, JA Malenke, SA Sundararaman, MA Ramirez, PA Crystal, AG Smith, F Bibollet-Ruche, A Ayoub, S Locatelli, A Esteban, F Mouacha, E Guichet, C Butel, S Ahuka-Mundeko, B-I Inogwabini, J-BN Ndjango, S Speed, CM Sanz, DB Morgan, MK Gonder, PJ Kranzusch, PD Walsh, AV Georgiev, **MN Muller**, AK Piel, FA Stewart, ML Wilson, AE Pusey, L Cui, Z WanG, A Färnert, CJ Sutherland, D Nolder, JA Hart, TB Hart, P Bertolani, A Gillis, M LeBreton, B Tafon, J Kiyang, CF Djoko, BS Schneider, ND Wolfe, E Mpoudi-Ngole, E Delaporte, R Carter, RL Culleton, GM Shaw, JC Rayner, M Peeters, BH Hahn & PM Sharp. African origin of the malaria parasite *Plasmodium vivax*. *Nature Communications*. 5:3346
doi:10.1038/ncomms4346
- 2014 **Muller MN** & RW Wrangham. Mortality rates in Kanyawara chimpanzees. *Journal of Human Evolution*. 66: 107-114.
- 2013 Smith TM, Z Machanda, AB Bernard, RM Donovan, AM Papakyrikos, **MN Muller** & Richard Wrangham. First molar eruption, weaning, and life history in living wild chimpanzees. *PNAS*. 110: 2787-2791.
- 2012 Emery Thompson M, **MN Muller** & RW Wrangham. Technical note: Variation in muscle mass in wild chimpanzees: Application of a modified urinary creatinine method. *American Journal of Physical Anthropology*. 149: 622-627.
- 2012 Li Y, J-B Ndjango, GH Learn, M Ramirez, BF Keele, F Bibollet-Ruche, W Liu, JL Easlick, JM Decker, RS Rudicell, B-I Inogwabini, S Ahuka-Mundeko, FH

- Leendertz, V Reynolds, **MN Muller**, RL Chancellor, AS Rundus, N Simmons, M Worobey, GM Shaw, M Peeters, PM Sharp & BH Hahn. Eastern chimpanzees, but not bonobos, represent a simian immunodeficiency virus reservoir. *Journal of Virology*. 86: 10776-10791.
- 2012 Langergraber KE, K Prüfer, C Rowney, C Boesch, C Crockford, K Fawcett, E Inoue, M Inoue-Muruyama, J Mitani, **MN Muller**, MM Robbins, G Schubert, T Stoinski, D Watts, RM Wittig, RW Wrangham, K Zuberbühler, S Pääbo & L Vigilant. Direct observation of generation times in wild apes suggests old divergences in hominid evolution. *PNAS* 109: 15716-15721.
- 2012 Emery Thompson M, **MN Muller** & RW Wrangham. The energetics of lactation and the return to fecundity in wild chimpanzees. *Behavioral Ecology* 23: 1234-1241.
- 2012 **Muller MN** & M Emery Thompson. Mating, parenting and male reproductive strategies. In JC Mitani, J Call, PM Kappeler, RA Palombit & JB Silk (editors). *Evolution of Primate Societies*. Chicago: University of Chicago Press.
- 2011 Gruber T, **MN Muller**, V Reynolds, R Wrangham & K Zuberbühler. Community-specific evaluation of tool affordances in wild chimpanzees. *Scientific Reports* 1, 128; DOI:10.1038/srep00128.
- 2011 **Muller MN**, M Emery Thompson, S Kahlenberg & RW Wrangham. Sexual coercion by male chimpanzees shows that female choice may be more apparent than real. *Behavioral Ecology and Sociobiology*. 65: 921-933.
- 2010 Carlson KJ, RW Wrangham, **MN Muller**, DR Sumner, ME Morbeck, T Nishida, A Yamanaka & C Boesch. Comparisons of limb structural properties in free-ranging chimpanzees from Kibale, Gombe, Mahale and Taï communities. In K D'Août & EE Vereecke (editors). *Primate Locomotion: Linking Field and Laboratory Research*. New York: Springer.
- 2010 Liu W, Y Li, GH Learn, RS Rudicell, JD Robertson, JBN Ndjango, CM Sanz, DB Morgan, S Locatelli, MK Gonder, PJ Kranzusch, PD Walsh, E Delaporte, E Mpoudi-Ngolle, AV Georgiev, **MN Muller**, GM Shaw, M Peeters, PM Sharp, JC Rayner & BH Hahn. Origin of the human malaria parasite *Plasmodium falciparum* in gorillas. *Nature*. 467: 420-425.
- 2010 Emery Thompson M, **MN Muller**, S Kahlenberg & RW Wrangham. Dynamics of social and energetic stress in wild female chimpanzees. *Hormones and Behavior*. 58: 440-449.
- 2010 Linlin L, A Kapoor, B Slikas, OB Soji, C Wang, S Shaukat, MM Alam, M Wilson, J-B Ndjango, M Peeters, N Gross-Camp, **MN Muller**, BH Hahn, N Wolfe, H

- Triki, J Bartkus, SZ Zaidi & E Delwart. Highly diverse circoviruses are prevalent in human and chimpanzee stool and infect multiple farm animal species. *Journal of Virology*. 84: 1674-1682.
- 2009 Gruber T, **MN Muller**, P Strimling, RW Wrangham, K Zuberbühler. Wild chimpanzees rely on cultural knowledge to solve an experimental honey acquisition task. *Current Biology*. 19: 1-5.
- 2009 Kuzawa CW, L Gettler, **MN Muller**, TW McDade & AB Feranil. Fatherhood, pairbonding and testosterone in the Philippines. *Hormones and Behavior*. 56: 429-435.
- 2009 Stumpf R, M Emery Thompson, **MN Muller** & RW Wrangham. The context of female dispersal in wild chimpanzees. *Behaviour*. 146: 629-656.
- 2009 Emery Thompson M, **MN Muller**, RW Wrangham, JS Lwanga & KB Potts. Urinary C-peptide tracks seasonal and individual variation in energy balance in wild chimpanzees. *Hormones and Behavior*. 55: 299-305.
- 2009 **Muller MN**, S Kahlenberg & RW Wrangham. Male aggression and sexual coercion of females in primates. In MN Muller & RW Wrangham (editors). *Sexual Coercion in Primates: An Evolutionary Perspective on Male Aggression Against Females*. Cambridge: Harvard University Press.
- 2009 **Muller MN**, S Kahlenberg & RW Wrangham. Male aggression against females in chimpanzees. In MN Muller & RW Wrangham (editors). *Sexual Coercion in Primates: An Evolutionary Perspective on Male Aggression Against Females*. Cambridge: Harvard University Press.
- 2009 Wrangham RW & **MN Muller**. Sexual coercion in humans and other primates: the road ahead. In MN Muller & RW Wrangham (editors). *Sexual Coercion in Primates: An Evolutionary Perspective on Male Aggression Against Females*. Cambridge: Harvard University Press.
- 2009 **Muller MN**, F Marlowe, R Bugumba & PT Ellison. Testosterone and paternal care in East African foragers and pastoralists. *Proceedings of the Royal Society B: Biological Sciences*. 276: 347-354.
- 2008 Kahlenberg S, M Emery Thompson, **MN Muller** & RW Wrangham. Immigration costs for female chimpanzees and male protection as an immigrant counterstrategy to intrasexual aggression. *Animal Behaviour*. 76: 1497-1509.
- 2008 Emery Thompson M, G Gobbo, ML Wilson, **MN Muller** & AE Pusey. Hyperprogesteronemia in response to *Vitex fischeri* consumption in wild

- chimpanzees (*Pan troglodytes schweinfurthii*). *American Journal of Primatology*. 70: 1064-1071.
- 2007 **Muller MN**. Chimpanzee violence: femmes fatales. *Current Biology*. 17: 365-366.
- 2007 **Muller MN**, S Kahlenberg, M Emery Thompson & RW Wrangham. Male coercion and the costs of promiscuous mating for female chimpanzees. *Proceedings of the Royal Society B: Biological Sciences*. 274: 1009-1014.
- 2006 **Muller MN**, M Emery Thompson & RW Wrangham. Male chimpanzees prefer mating with old females. *Current Biology*. 16: 2234-2238.
- 2006 Watts DP, **MN Muller**, SJ Amsler, G Mbabazi & JC Mitani. Lethal intergroup aggression by chimpanzees in the Kibale National Park, Uganda. *American Journal of Primatology*. 68: 161-180.
- 2006 Wrangham RW, ML Wilson & **MN Muller**. Comparative rates of violence in chimpanzees and humans. *Primates*. 47: 14-26.
- 2005 **Muller MN** & JC Mitani. Conflict and cooperation in wild chimpanzees. *Advances in the Study of Behavior*. 35: 275-331.
- 2005 **Muller MN** & RW Wrangham. Testosterone and energetics in wild chimpanzees. *American Journal of Primatology*. 66: 119-130.
- 2004 **Muller MN** & RW Wrangham. Dominance, cortisol and stress in wild chimpanzees (*Pan troglodytes schweinfurthii*). *Behavioral Ecology and Sociobiology*. 55: 332-340.
- 2004 **Muller MN** & RW Wrangham. Dominance, testosterone and aggression in wild chimpanzees: A test of the challenge hypothesis. *Animal Behaviour*. 67: 113-123.
- 2003 **Muller MN** & SF Lipson. Diurnal patterns of urinary steroid excretion in wild chimpanzees. *American Journal of Primatology*. 60: 161-166.
- 2003 Santiago ML, M Lukasik, S Kamenya, Y Li, F Bibollet-Ruche, E Bailes, **MN Muller**, M Emery, DA Goldenberg, JS Lwanga, A Ayoub, E Nerrienet, HM McClure, JL Heeney, DP Watts, AE Pusey, DA Collins, RW Wrangham, J Goodall, JFY Brookfield, PM Sharp, GM Shaw & BH Hahn. Foci of endemic simian immunodeficiency virus infection in wild-living eastern chimpanzees (*Pan troglodytes schweinfurthii*). *Journal of Virology*. 77: 7545-7562.

- 2003 Santiago ML, F Bibollet-Ruche, E Bailes, S Kamenya, **MN Muller**, M Lukasik, AE Pusey, DA Collins, RW Wrangham, J Goodall, GM Shaw, PM Sharp & BH Hahn. Amplification of a complete simian immunodeficiency virus genome from fecal RNA of a wild chimpanzee. *Journal of Virology*. 77: 2233-2242.
- 2002 **Muller MN**. Agonistic relations among Kanyawara chimpanzees. Pages 112-124 in C Boesch, G Hohmann and L Marchant (eds.) *Behavioral Diversity in Chimpanzees and Bonobos*. Cambridge: Cambridge University Press.
- 2002 **Muller MN** & RW Wrangham. Sexual mimicry in hyenas. *Quarterly Review of Biology*. 77: 3-16.
- 2002 Mitani JC, DP Watts & **MN Muller**. Recent developments in the study of wild chimpanzee behavior. *Evolutionary Anthropology*. 11: 9-25.
- 2002 Santiago ML, CM Rodenburg, S Kamenya, F Bibollet-Ruche, F Gao, E Bailes, S Meleth, JM Kilby, Z Maldoveanu, B Fahey, **MN Muller**, A Ayouba, E Nerrienet, HM McClure, JL Heeney, AE Pusey, DA Collins, C Boesch, RW Wrangham, J Goodall, PM Sharp, GM Shaw & BH Hahn. SIVcpz infection in wild chimpanzees. *Science*. 295: 465.
- 2002 Vartanian JP, P Pineau, M Henry, WD Hamilton, **MN Muller**, RW Wrangham & S Wain-Hobson. Identification of a hepatitis B virus genome in wild chimpanzees (*Pan troglodytes schweinfurthii*) from East Africa indicates a wide geographical dispersion among equatorial African primates. *Journal of Virology*. 76: 11155-11158.
- 2002 **Muller MN**. Endocrine Aspects of Aggression and Dominance in Chimpanzees of the Kibale Forest. Ph.D. thesis. University of Southern California. Los Angeles, CA
- 2001 **Muller MN** & RW Wrangham. The reproductive ecology of male hominoids. Pages 397-427 in PT Ellison (ed.) *Reproductive Ecology and Human Evolution*. New York: Aldine.
- 2000 **Muller MN**. The knuckle-walking wounded. *Natural History*. 109(8): 44-48.
- 1995 **Muller MN**, E Mpongo, CB Stanford & C Boehm. A note on scavenging by wild chimpanzees. *Folia Primatologica*. 65: 43-47.

Book Reviews

- 2015 **Muller MN**. Review of *Galileo's Middle Finger: Heretics, Activists, and the Search for Justice in Science*, by A. Dreger. (Penguin Press, 2015) *Human Nature*. 26: 346-350.

- 2010 **Muller MN.** Review of *Sexual Selection and the Origin of Human Mating Systems*, by A. Dixson. (Oxford University Press, 2009) *Journal of Anthropological Research*. 66: 532-534.
- 2010 **Muller MN.** Review of *The Real Chimpanzee: Sex Strategies in the Forest*, by C. Boesch. (Cambridge University Press, 2009) *International Journal of Primatology*. 32: 524-529.
- 2007 **Muller MN.** Review of *Man the Hunted: Primates, Predators, and Human Evolution*, by D Hart & RW Sussman. (Westview Press, 2005) *American Journal of Physical Anthropology*. 132: 484-486.
- 2006 **Muller MN.** Review of *Sexual Selection in Primates*. P Kappeler & C van Schaik, editors. (Cambridge University Press, 2004). *American Journal of Physical Anthropology*. 130: 279-281.
- 2002 **Muller MN.** Review of *What it Means to be 98% Chimpanzee*, by J Marks (UC Berkeley Press, 2002). *Quarterly Review of Biology*. 77: 454-455.

Conference Papers and Invited Talks

- 2016 (Oct) Max Planck Institute for Evolutionary Anthropology: Leipzig, Germany. Institute Seminar Series. "Testosterone, chimpanzees, and the evolution of the human mating system."
- 2016 (Aug) International Primatological Society/American Society of Primatologists, Joint Meeting. Chicago. "Age specific fertility rates in male chimpanzees (*Pan troglodytes*)."
- 2016 (April) American Association of Physical Anthropologists, Annual Meeting. Atlanta. "Testosterone, musculature, and development in Kanyawara chimpanzees and Tsimane forager-horticulturalists." (Abstract: *Am J Phys Anth* S62: 236)
- 2014 (April) American Association of Physical Anthropologists, Annual Meeting. Calgary. "Male sexual coercion and female mating preferences in wild chimpanzees." (Abstract: *Am J Phys Anth* S58: 191)
- 2013 (April) American Association of Physical Anthropologists, Annual Meeting. Knoxville, TN. "Intergroup aggression and within-group cohesion in wild chimpanzees." (Abstract: *Am J Phys Anth* S 56:202-203)
- 2013 (Feb) Arizona State University. School of Human Evolution and Social Change. "Male sexual coercion and female choice in wild chimpanzees."

- 2012 (April) University of California, Los Angeles. Center for Behavior, Evolution and Culture. "Behavioral ecology and socioendocrinology of reproduction in male chimpanzees."
- 2012 (April) American Association of Physical Anthropologists, Annual Meeting. Portland, Oregon. "Testosterone, development and aging in wild chimpanzees." (Abstract: *Am J Phys Anth S* 54:220)
- 2012 (Jan) University of New Mexico. Maxwell Museum of Anthropology. "Ancestors" Lecture. "'Redefining man': How chimpanzees have shaped our view of human nature."
- 2010 (Nov) University of Chicago. Department of Comparative Human Development, Comparative Behavioral Biology Workshop. "Male coercion and female choice in wild chimpanzees."
- 2010 (Oct) University of Nevada Las Vegas. Department of Anthropology Colloquium Series. "Male sexual coercion and female choice in wild chimpanzees."
- 2010 (April) Southern California Primate Research Forum. CSU Fullerton. "Male sexual coercion and female choice in wild chimpanzees."
- 2010 (April) American Association of Physical Anthropologists, Annual Meeting. Albuquerque, New Mexico. "Reproduction and resistance to stress in wild chimpanzees." (Abstract: *Am J Phys Anth S* 50:174)
- 2009 (April) American Association of Physical Anthropologists, Annual Meeting. Chicago, Illinois. "Male coercion and female choice in wild chimpanzees." (Abstract: *Am J Phys Anth S* 48:196)
- 2009 (Feb) University of New Mexico. Program in Interdisciplinary Biological and Biomedical Sciences: Symposium on the Legacy of Charles Darwin. "Chimpanzees as models for the last common ancestor of apes and humans"
- 2008 (Oct) German Primate Center: Göttingen, Germany. European Primate Network seminar on "Stress and its Implications for Primate Welfare." "Stress in the wild."
- 2008 (May) University of California, Davis. Ecology and Evolution Seminar Series. "Male coercion and female choice in wild chimpanzees."
- 2008 (March) University of New Mexico, Department of Psychology Colloquium Series. "Sexual coercion among wild chimpanzees."

- 2007 (June) Human Behavior and Evolution Society, Annual Meeting. Williamsburg, Virginia. "Fatherhood and testosterone in Hadza hunter-gatherers and neighboring Datoga pastoralists."
- 2007 (March) University of New Mexico, Department of Anthropology. "The reproductive ecology of male chimpanzees."
- 2006 (Oct) University of Michigan, Department of Anthropology. "Male mate choice and sexual coercion in wild chimpanzees."
- 2006 (June) International Primatological Society, Annual Meeting. Entebbe, Uganda. "Male aggression against females and stress in wild chimpanzees." (MN Muller, S Kahlenberg, M Emery Thompson & RW Wrangham)
- 2006 (June) International Primatological Society, Annual Meeting. Entebbe, Uganda. Conference Symposium. "Male aggression towards females: variation with social system." (Organized by MN Muller & RW Wrangham)
- 2006 (Feb) University of Southern California. Department of Anthropology. "Ecology and endocrinology of aggression in wild chimpanzees."
- 2005 (Nov) Hunter College, CUNY. Department of Anthropology. "Male aggression against females and stress in wild chimpanzees."
- 2005 (Feb) University of Texas, Austin. Department of Anthropology. "Ecology and endocrinology of aggression in wild chimpanzees."
- 2004 (April) American Association of Physical Anthropologists, Annual Meeting. Tampa, Florida. "Dominance, cortisol and stress in wild chimpanzees." (Abstract: *Am J Phys Anth S* 38:151)
- 2003 (Nov) Howard Hughes Medical Institute. University of Alabama, Birmingham. "The reproductive ecology of wild chimpanzees."
- 2002 (April) American Association of Physical Anthropologists, Annual Meeting. Buffalo, New York. "Testosterone and reproductive aggression in wild chimpanzees." (Abstract: *Am J Phys Anth S* 34:116-117)
- 2000 (June) Max Planck Institute for Evolutionary Anthropology. Symposium on Behavioural Diversity in Chimpanzees and Bonobos. "Testosterone, dominance and aggression in wild chimpanzees."
- 2000 (April) Southern California Primate Research Forum. Pasadena City College. "The reproductive ecology of male chimpanzees."

Teaching

University of New Mexico, Department of Anthropology

Evolution and Human Emergence

Human Biology

Human Behavioral Ecology

Great Apes: Mind and Behavior

Human Reproductive Ecology (Graduate seminar)

Chimpanzees and Human Evolution (Graduate seminar)

Behavioral Endocrinology Laboratory

Boston University, Department of Anthropology

Introduction to Biological Anthropology

Primate Social Behavior

Advanced Topics in Human Evolution

Human Reproductive Ecology

Behavioral Biology of Human Sex Differences

Harvard University, Department of Anthropology

Sophomore Tutorial in Biological Anthropology

Human Behavioral Biology (fall 2002) Head Teaching Fellow

Human Behavioral Biology (spring 1999, 2002) Assistant Head Teaching Fellow

University of Southern California, Department of Anthropology

Introduction to Physical Anthropology (1996) Graduate Teaching Assistant

Recent Reviewer for Academic Journals/Funding Agencies

Science

PNAS

Proceedings: Biological Sciences

Journal of Human Evolution

Hormones and Behavior

Biology Letters

Evolutionary Anthropology

Current Biology

Advances in the Study of Behavior

Animal Behaviour

Human Nature

Physiology and Behavior

Behavioral Ecology and Sociobiology

Psychological Science

American Journal of Primatology

American Journal of Human Biology

Marine Mammal Science

U.S. National Science Foundation

Administrative work with professional societies

2015 Southwestern Association of Biological Anthropologists. Program committee and local area coordinator for annual meeting in Albuquerque, NM.

2011 Human Behavior and Evolution Society. Program committee for annual meeting in Albuquerque, NM.

2010 Human Biology Association. Local area coordinator for annual meeting in Albuquerque, NM.