

## CURRENT APPOINTMENT

2023- Postdoctoral Scholar, UC Santa Barbara, Dept. of Anthropology

## RESEARCH AFFILIATIONS

2023- Co-Director, Kakamega Monkey Project, Kenya  
2025- Adjunct assistant professor, University of Calgary, Dept. of Anthropology and Archaeology  
2024- Research Affiliate, Broom Center for Demography, UC Santa Barbara  
2024- Research Affiliate, Center for Ageing and Longevity Studies, UC Santa Barbara  
2024- Research Affiliate, Brenda Strafford Centre on Aging, UC Santa Barbara

## EDUCATION

2016-2023 PhD & MSc, Evolutionary Anthropology  
University of New Mexico, Dept. of Anthropology  
2012-2015 MA, Primatology  
University of Calgary, Dept. of Anthropology and Archaeology  
2008- 2012 BSc, Specialist Degree in Biological Anthropology  
University of Toronto

## PREVIOUS RESEARCH POSITIONS

2016-2023 Research assistant, Comparative Human and Primate Physiology Center, UNM  
2019-2020 Dissertation field research, Kibale Chimpanzee Project, Kibale National Park, Uganda  
2014, 2017 Genetic paternity testing, Molecular Anthropology Laboratory, University of Oregon  
2015 Prolactin assay development, Arbor Assays, Ann Arbor, Michigan  
2013 Master's thesis field research, Boabeng-Fiema Monkey Sanctuary, Ghana

## EXTERNAL GRANTS

2025 Primate Research Fund, The Leakey Foundation, Co-PI (\$25 000)  
2024 Primate Research Fund, The Leakey Foundation, Co-PI (\$23 200)  
2023 Small Working Group Meeting award, Animal Models for the Social Dimensions of Health and Ageing Research Network, Co-PI (\$15 000)  
2019 Dissertation Fieldwork Grant, Wenner-Gren Foundation (\$9000)  
2019 Grants in Aid of Research, Sigma Xi (\$1000)

2018	Research Grant, The Leakey Foundation (\$15 000)
2016-2019	Doctoral Post-Graduate Scholarship, Natural Sciences and Engineering Research Council of Canada (\$63 000)
2015	Ruppenthal Student Travel Award, American Society for Primatologists (\$500)
2014	General Small Grant, American Society of Primatologists (\$1200)
2012-2013	Alexander Graham Bell Canada Graduate Scholarship – Master’s level, Natural Sciences and Engineering Research Council of Canada (\$17 500)

## INTERNAL GRANTS

2025	Transdisciplinary Connector Grant, University of Calgary, PI (\$8500)
2024	Conference hosting grant, Broom Center for Demography, UC Santa Barbara, Co-PI (\$3000)
2024	Conference hosting grant, College of Letters and Sciences, UC Santa Barbara, Co-PI (\$3200)
2021	Student Research Grant, University of New Mexico (\$500)
2021	Student Travel Award, Dept. of Anthropology, University of New Mexico (\$300)
2019	Student Research Grant, University of New Mexico (\$500)
2019	New Mexico Research Award, University of New Mexico (\$3000)
2018	Student Research Grant, University of New Mexico (\$500)
2018	New Mexico Research Award, University of New Mexico (\$3000)
2018	Conference Travel Grant, University of New Mexico Career Services (\$600)
2017	Student Research Grant, University of New Mexico (\$500)
2017	Professional Development Grant, University of New Mexico (\$500)
2017	Rogers Research Award, University of New Mexico Office of Graduate Studies (\$750)
2016	Student Travel Award, Dept. of Anthropology, University of New Mexico (\$300)
2015	Queen Elizabeth II Scholarship, University of Calgary (\$15 000 declined)
2015	Travel Grant, University of Calgary (\$750)
2014	Thesis Research Grant, University of Calgary (\$1000)

## AWARDS & HONOURS

2023	Doctorate with Distinction, University of New Mexico
2022	Teaching award nomination, University of New Mexico
2022	Outstanding Student Talk, American Association of Biological Anthropology (\$500)
2022	Finalist, Outstanding Student Talk, International Primatological Society
2021	Student Presentation Award for podium presentation, Evolutionary Anthropology Society (\$350)
2021	Ruth Kennedy Award, Dept. of Anthropology, University of New Mexico (\$500)
2015	Outstanding Student Talk, American Society for Primatologists (\$100)
2012	Bachelor’s with High Distinction, University of Toronto
2008-2012	Dean’s List, University of Toronto

## FELLOWSHIPS &amp; SCHOLARSHIPS

2022	Dissertation Write-up Fellowship, University of New Mexico (\$27000)
2014	Graduate Research Scholarship, University of Calgary (\$5000)
2013-2014	Queen Elizabeth II Scholarship, University of Calgary (\$7200)
2013	Graduate Research Scholarship, University of Calgary (\$4000)
2012	Graduate Research Scholarship, University of Calgary (\$2000)
2012	Queen Elizabeth II Scholarship, University of Calgary (\$7200 declined)
2011	Roy Alvin Hope Scholarship, University of Toronto (\$1000)
2009, 2010	Regent's In-course Scholarship, University of Toronto (\$1000 per year)

## EDITORIAL WORK

2022	Lead Editor, "Cooperation among women: evolutionary and cross-cultural perspectives". Theme issue in Philosophical Transactions of the Royal Society B. Vol 378. Co-edited with Drs. Karen Kramer, Joan Silk, and Brooke Scelza.
------	--

## PUBLICATIONS

In prep	<b><u>Fox SA</u></b> , Thompson González N, Muller MN, Machanda Z, Otali E, Wrangham R, Emery Thompson M. Chimpanzee females' reproductive histories influence their social integration with age. To be submitted to Proceedings of the Royal Society B.
In prep	<b><u>Fox SA</u></b> , Muller MN, Camargo Peña N, Machanda Z, Otali E, Wrangham R, Emery Thompson M. Chimpanzee female social relationships are hindered by males. To be submitted to Proceedings of the Royal Society B.
2024	<b><u>Fox SA</u></b> , Muller MN, Camargo Peña N, Thompson González N, Machanda Z, Otali E, Wrangham R, Emery Thompson M. Selective social tolerance drives differentiated relationships among wild female chimpanzees. <i>Animal Behaviour</i> 217, 21-38.
2023	Teichroeb JA, <b><u>Fox SA</u></b> , Smartino S, Wikberg EC, Sicotte P. Non-reproductive sexual behavior in wild white thighed colobus monkeys ( <i>Colobus vellerosus</i> ). <i>Archives of Sexual Behavior</i> , 52(6) 2295-2301.
2022	<b><u>Fox SA</u></b> , Scelza B, Silk J, Kramer KL. New perspectives on the evolution of women's cooperation. <i>Philosophical Transactions of the Royal Society B</i> 378 (1868), 20210424.
2022	<b><u>Fox SA</u></b> , Muller MN, Thompson González N, Enigk DE, Machanda ZP, Otali E, Wrangham RW, Emery Thompson M. Weak, but not strong, ties support coalition formation among wild female chimpanzees. <i>Philosophical Transactions of the Royal Society B</i> 378 (1868), 20210427.
2021	Muller MN, Enigk DE, <b><u>Fox SA</u></b> , Lucore J, Machanda ZP, Wrangham RW, Emery Thompson M. Aggression, glucocorticoids, and the chronic costs of status competition for wild male chimpanzees. <i>Hormones and Behavior</i> 130, 104965.
2020	Vayro JV, Ziegler TE, Fedigan LM, Crotty A, <b><u>Fox SA</u></b> , Sicotte P. Direct stacked investment is a flexible reproductive strategy for female <i>Colobus vellerosus</i> . <i>International Journal of Primatology</i> 42 (1), 1-15.

- 2020 Emery Thompson M, Fox SA, Berghänel A, Sabbi K, Phillips-Garcia S, Enigk DK, Otali E, Machanda ZP, Wrangham RW. Wild chimpanzees exhibit humanlike aging of glucocorticoid regulation. *Proceedings of the National Academy of Sciences* 117(15), 8424-8430.
- 2020 Emery Thompson M, Machanda ZP, Fox SA, Sabbi KH, Otali E, Thompson González N, Muller MN, Wrangham RW. Evaluating the impact of physical frailty during aging in wild chimpanzees (*Pan troglodytes schweinfurthii*). *Philosophical Transactions of the Royal Society B* 375 (1811), 20190607.
- 2020 Sabbi KH, Muller MN, Machanda ZP, Otali E, Fox SA, Wrangham RW, Emery Thompson M. Human-like adrenal development in wild chimpanzees: A longitudinal study of urinary dehydroepiandrosterone-sulfate and cortisol. *American Journal of Primatology* 82:11.
- 2016 Badescu I, Wikberg EC, MacDonald LJ, Fox SA, Vayro JV, Crotty AC, Sicotte P. Infanticide pressure accelerates infant development in a wild primate. *Animal Behaviour* 114: 231-329.
- 2015 Sicotte P, Teichroeb JA, Vayro JV, Fox SA, Badescu I, & Wikberg EC. The influence of male takeovers on female dispersal in *Colobus vellerosus*. *American Journal of Primatology*. DOI 10.1002/ajp.22436.

## INVITED COLLOQUIA

- 2023 Invited talk, “Evolution of female cooperation in humans and chimpanzees”, Dept. of Anthropology Colloquium, UCSB.
- 2023 Invited talk, “The subtle social lives of female chimpanzees”, Dept. of Anthropology and Archaeology Research Seminar Series, U of C.

## INVITED GUEST LECTURES

- 2023 Guest Lecture, “Female chimpanzees in an anthropological context”, for Dr. Katie Starkweather at University of Illinois at Chicago, course “Human behavioral ecology”.
- 2023 Guest lecture “When the real party starts: female chimpanzee social behavior in the absence of males” for Dr. Mary Pavelka at U of C, course “Methods in Primatology”.
- 2022 Guest lecture “Field biology and primatology” for Dr. Jake Kerzweil at Fort Lewis University, Durango, CO, course “Intro to Environmental Sciences”.
- 2022, 2021 Guest lecture “Evolution and cross-cultural perspectives on women’s cooperation” for Dr. Katie Starkweather at University of Illinois at Chicago, course “The Biology of Women”
- 2020 Guest lecture “Do female chimpanzees have friends?” for Hunter College Primatology Field School (United States), lecture given at Makerere University Biological Field Station.
- 2019 Guest lecture “Chimpanzee life history: energetic tradeoffs between quality and quantity of offspring” for Anglia Ruskin University Tropical Ecology Field School (United Kingdom), lecture given at Makerere University Biological Field Station.
- 2019 Guest lecture “The social lives of female chimpanzees” for Bangor University Primatology Field School (United Kingdom), lecture given at Makerere University Biological Field Station.

2019 Guest lecture “Chimpanzee socioecology” for Adam Mickiewicz University (Poland), Tropical Biology Field School, lecture given at Makerere University Biological Field Station.

## ACADEMIC SERVICE

2021-2022 Anthropology Department Steward, University of New Mexico, United Graduate Workers  
 2020-2021 Anthropology Department Faculty-Student Liaison, University of New Mexico  
 2020-2021 Anthropology Department Diversity, Equity, and Inclusion Committee member, University of New Mexico  
 2016-2021 President & Outreach Coordinator, Advancing Women in Science, University of New Mexico student group  
 2019 Chief Organizer, March for Science Kibale, Kibale National Park, Uganda

## LEADERSHIP: ACADEMIC EVENTS

2024 Socioecology of Social Ageing Conference and Workshop, co-organizer, UC Santa Barbara  
 2024 California Workshop on Evolutionary Social Sciences, local host committee, UC Santa Barbara  
 2021 “Evolutionary and cross-cultural perspectives on women’s cooperation” symposium, co-organizer, American Association of Biological Anthropologists annual meeting.  
 2019 “Up-goer five” symposium, co-organizer, UNM Anthropology Graduate Student Union annual meeting.

## LEADERSHIP: MENTORSHIP EVENTS

2024-2025 “Your Local Heroes” speaker series showcasing individual success in diverse education and career paths as role models for youth and young adults. Organized in collaboration with the Community Health Volunteers organization in Virembe, Kenya.  
 2020 “Homegrown Scientists” yearlong speaker series featuring 12 New Mexican womxn with unique paths to STEM, University of New Mexico.  
 2019 “March for Science Kibale” parade and full-day celebration of science at Makerere University Biological Field Station, Uganda.  
 2017, 2019 “Pro-Tips” speaker series interviewing womxn professors in STEM, University of New Mexico  
 2017, 2018 “She persisted in STEM” full day mentorship workshop for women in STEM, University of New Mexico.  
 2017, 2018 “Speed-mentoring” undergraduate and faculty mentorship matching event, University of New Mexico.

## TEACHING POSITIONS

- 2020, 2021    Instructor, “Fostering Scientific Minds”, University of New Mexico.  
2016            Instructor, “Primate Behaviour”, University of Calgary.  
2016            Instructor, “Introduction to Primatology and Human Evolution”, University of Calgary.  
2013, 2015    Program assistant, Ghana Primatology Field School, University of Calgary.

## PEER REVIEWER

Proceedings of the Royal Society B: Biological Sciences  
iScience  
Scientific Reports  
Royal Society Open Science  
Philosophical Transactions of the Royal Society B  
American Journal of Primatology  
Animal Behavior  
Acta Amazonia

## PROFESSIONAL MEMBERSHIPS

American Association of Biological Anthropologists  
International Primatological Society  
California Workshop on Evolutionary Social Sciences  
Sigma Xi

## CONFERENCE PRESENTATIONS

- 2025    **Fox SA** and Thompson González N. Multidisciplinary perspectives on the socioecology of social aging: solitude, sociality, and kinship. Animal Models for the Social Dimensions of Health and Aging Research Network Catalysis Meeting, Chapel Hill, North Carolina, Jan 2025.
- 2024    **Fox SA**, Thompson González N, Machanda Z, Muller MN, Otali E, Wrangham RW, Emery Thompson M. The influence of adult offspring on the sociality of ageing mothers in wild chimpanzees. Socioecology of Social Ageing Conference and Workshop, Santa Barbara, Oct 2024.
- 2024    Emery Thompson M, Cole M, Dyer E, **Fox, SA**, Kobusingye M, Muller M, Otali E, Wrangham RW, Machanda Z. Costly relationships and social aging in wild chimpanzees. Socioecology of Social Ageing Conference and Workshop, Santa Barbara, Oct 2024.
- 2024    Starkweather K, **Fox SA**. Shodagor women’s sociality over the life course is modified when adult offspring live nearby. Socioecology of Social Ageing Conference and Workshop, Santa Barbara, Oct 2024.
- 2024    **Fox SA**, Muller MN, Camargo Peña N, Thompson González N, Machanda Z, Otali E, Wrangham RW, Emery Thompson M. Social tolerance as a component of relationship quality among wild female chimpanzees, *Pan troglodytes schweinfurthii*. American Association of Biological Anthropologists meeting, Los Angeles, California.

- 2023 **Fox SA**, Muller MN, Camargo Peña N, Machanda Z, Otali E, Wrangham RW, Emery Thompson M. Wild female chimpanzees (*Pan troglodytes schweinfurthii*) associate, affiliate, and cooperate with each other more in the absence of male chimpanzees. Southwest Association of Biological Anthropologists meeting, Tuscon, Arizona.
- 2023 **Fox SA**, Muller MN, Camargo Peña N, Machanda Z, Otali E, Wrangham RW, Emery Thompson M. The presence of males impedes female association, affiliation, and cooperation in wild chimpanzees, *Pan troglodytes schweinfurthii*. International Primatological Society meeting, Kuching, Malaysia.
- 2023 Cole MF, **Fox SA**, Muller MN, Otali E, Machanda Z, Wrangham RW, Emery Thompson M. Trait-level cortisol predicts grooming behavior in wild chimpanzees (*Pan troglodytes*). International Primatological Society meeting, Kuching, Malaysia.
- 2023 Cole MF, **Fox SA**, Muller MN, Otali E, Machanda Z, Wrangham RW, Emery Thompson M. Individual differences in cortisol profiles among wild chimpanzees (*Pan troglodytes*) at Kanyawara. American Association of Biological Anthropologists meeting, Reno, Nevada.
- 2023 Lucci S, **Fox SA**, Larter L, Vayro J, Sicotte P, Ting N, Wikerbg E. Paternity is skewed towards alpha males in *Colobus vellerosus*. American Society for Primatologists meeting, Reno, Nevada.
- 2022 **Fox SA**, Muller MN, Thompson González N, Enigk DE, Machanda ZP, Otali E, Wrangham RW, Emery Thompson M. Social relationship quality predicts coalition formation among adult female chimpanzees at Kanyawara, Kibale National Park, Uganda. American Association of Biological Anthropologists meeting, Denver, Colorado.
- 2022 Emery Thompson M, Philips S, **Fox SA**, Machanda ZP, Muller MN, Wrangham RW. Rethinking the role of lactation in chimpanzee life histories. International Primatological Society meeting, virtual.
- 2022 **Fox SA**, Muller MN, Thompson-Gonzalez N, Enigk DE, Machanda ZP, Otali E, Wrangham RW, Emery Thompson M. Does social relationship quality predict coalition formation among adult female chimpanzees in the Kanyawara community, Kibale National Park, Uganda? International Primatological Society meeting, virtual.
- 2021 **Fox SA**, Muller MN, Thompson González N, Enigk DE, Machanda ZP, Otali E, Wrangham RW, Emery Thompson M. Social relationships quality and coalition formation among adult female chimpanzees at Kanyawara, Kibale National Park, Uganda. Invited presentation, American Association of Anthropologists meeting, virtual.
- 2021 **Fox SA**. Patterns of same-sex social relationships in women across the globe: what do we know? American Association of Physical Anthropologists meeting, virtual.
- 2021 Cole M, **Fox SA**, Machanda Z, Otali E, Muller MN, Wrangham WR, Emery Thompson M. Urinary T3 levels in wild chimpanzees (*Pan troglodytes*) at Kibale National Park, Uganda. Accepted for podium presentation at the International Primatological Society meeting, Quito, Ecuador, withdrawn due to COVID-19.



- 2021 Christie DM, **Fox SA**, Larter L, Wikberg EC, Sicotte P, Ting N. Infant black and white colobus gut microbiome diversity increases with age. Accepted for podium presentation at the International Primatological Society meeting, Quito, Ecuador, withdrawn due to COVID-19.
- 2019 **Fox SA**, Machanda ZP, Muller MN, Otali E, Wrangham RW, Thompson ME. Female chimpanzee activity budgets across reproductive phases. Uganda Wildlife Authority's Kibale Conservation Area Researcher Symposium at Makerere University Biological Field Station, Uganda.
- 2019 **Fox SA**, Machanda ZP, Muller MN, Otali E, Wrangham RW, Thompson ME. How do wild female chimpanzees manage the energetic demands of pregnancy and lactation? African Society of Primatologists meeting, Entebbe, Uganda.
- 2019 Emery Thompson M, **Fox SA**, Berghänel A, Sabbi K, Phillips-Garcia S, Enigk D, Otali E, Machanda ZP, Wrangham RW, Muller MN. Aging of the hypothalamic-pituitary-adrenal axis in wild chimpanzees. American Association of Physical Anthropologists meeting, Cleveland, Ohio.
- 2018 Rissling T, Badescu I, Crotty A, **Fox SA**, Gibson-King A, MacDonald L, Vayro JV, Wikberg W, Sicotte P. Young leaf availability partially influences weaned age in a wild colobus. American Society of Primatologists meeting, San Antonio, Texas.
- 2018 Vayro JV, Ziegler TE, Fedigan LM, Crotty A, **Fox SA**, Potvin-Rosselet E, Sicotte P. Stacked investment in female *Colobus vellerosus*: what influences the timing and overlap of offspring? American Association of Physical Anthropologists meeting, Austin, Texas.
- 2018 **Fox SA**, Machanda ZP, Muller MN, Otali E, Wrangham RW, Emery Thompson M. Wild female chimpanzees are more social and feed less often when they have young infants. American Association of Physical Anthropologists meeting, Austin, Texas.
- 2017 **Fox SA**, Machanda ZP, Muller MN, Otali E, Wrangham RW, Emery Thompson M. Wild female chimpanzees are more social and feed less often when they have young infants. Southwest Association of Biological Anthropologists meeting, San Diego, California.
- 2016 **Fox SA**, Teichroeb J, Sicotte P. Survey on infant-initiated involvement in adult male confrontations across the primate order. Joint meeting of the International Primatological Society and the American Society of Primatologists, Chicago, Illinois.
- 2016 **Fox SA**, Wikberg EC, Vayro J, Simons ND, Ruiz-Lopez MJ, Crotty A, Christie D, Potvin Rosselet E, Ting N, Sicotte P. Could male *Colobus vellerosus* be using behavioural cues to estimate paternity? Invited presentation, American Association of Physical Anthropologists, Atlanta, Georgia.
- 2015 **Fox SA**, Sicotte P. Do mothers mediate affiliative interactions between males and infants in wild *Colobus vellerosus*? Invited presentation, Canadian Association of Physical Anthropologists, Winnipeg, Manitoba.
- 2015 Crotty A, Wikberg E, Vayro J, **Fox SA**, MacDonald L, Sicotte P. Exploring lactation and weaning in colobus monkeys (*Colobus vellerosus*). Canadian Association of Physical Anthropologists, Winnipeg, Manitoba.
- 2015 **Fox SA**, Wikberg EC, Ruiz-López MJ, Vayro JV, Simons ND, Crotty A, Christie D, Ting N, Sicotte P. Affiliation, tolerance and proximity between males and infants in wild *Colobus vellerosus* in Ghana is not explained by genetic sireship. American Society of Primatologists meeting, Bend, Oregon.



- 2015 **Fox SA**, Vayro JV, Potvin-Rosselet E, Crotty A, Sicotte P. Infant involvement in male agonistic displays in black and white colobus monkeys (*Colobus vellerosus*). American Association of Physical Anthropologists, St. Louis, Missouri.
- 2015 Badescu I, Wikberg EC, MacDonald LJ, **Fox SA**, Vayro JV, Sicotte P. Infanticide pressure and group size affect natal coat development in wild *Colobus vellerosus* at Boabeng-Fiema Monkey Sanctuary, Ghana. American Association of Physical Anthropologists meeting, St. Louis, Missouri.
- 2014 **Fox SA**, Vayro JV, Potvin-Rosselet E, Crotty A, Sicotte P. Males who are potential sires show affiliation and tolerance toward infants in *Colobus vellerosus*. American Association of Physical Anthropologists meeting, Calgary, Alberta.
- 2014 Sicotte P, Teichroeb JA, Vayro JV, **Fox SA**, and Wikberg EC. Female dispersal post-takeover is related to male quality in *Colobus vellerosus*. American Association of Physical Anthropologists meeting, Calgary, Alberta.

## TEACHING ASSISTANTSHIPS

- 2020-2022 Graduate assistant, Intro to Biological Anthropology, University of New Mexico.
- 2019 Graduate assistant, Human Behavioral Ecology, University of New Mexico.
- 2017 Graduate assistant, Human Life Course, University of New Mexico.
- 2016 Graduate assistant, Primate Behavior, University of New Mexico.
- 2015 Grader, Evolutionary Anthropology, University of Calgary.
- 2015 Grader, Primate behaviour, University of Calgary.
- 2014, 2015 Teaching assistant, Intro to Primatology and Human Evolution, University of Calgary.
- 2014 Teaching assistant, Anthropology of HIV and AIDS, University of Calgary.
- 2013 Teaching assistant, Anthropology of Business, University of Calgary.
- 2013 Teaching assistant, Intro to Primatology and Human Evolution University of Calgary.

## COMMUNITY OUTREACH

- 2024 Outreach talk, “Conservation, Biodiversity and Women in STEM”, Lirhandu Girls High School, Kakamega County, Kenya.
- 2024 Judge, Calgary Youth Science Fair, Calgary, Canada.
- 2019-2020 Outreach talk “Chimpanzee conservation” Kibale Forest Schools Program, Rwankuba Primary School, Kitero Primary School.
- 2019 Outreach talk “Conducting primatology fieldwork”, Gayaza Christian School Field School (Uganda), lecture given at Makerere University Biological Field Station.
- 2017-2018 Leadership Team, Albuquerque BioPark Animal Enrichment Program (Albuquerque, NM).
- 2014-2019 Elementary and high school outreach talks. “A day in the life of a primatologist”. Volcano Vista High School and Monzano High School (Albuquerque, NM), JW Gerth Public School (Kitchener, ON), Conestogo Public School (Conestogo, ON), and Oakwood Public School (Oakville, ON).
- 2014, 2015 Mentor, ‘Minds in Motion’ science and engineering program for youth, U of C.
- 2014, 2015 Judge, Calgary Youth Science Fair.
- 2014 Mentor, Operation Minerva, Alberta Women’s Science Network.