

MARGARET A. H. BRYER

Curriculum Vitae

Assistant Professor
Department of Anthropology, University of Wisconsin-Madison
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EDUCATION

2020	Ph.D.	The Graduate Center of the City University of New York Anthropology
2016	M.Phil.	The Graduate Center of the City University of New York Anthropology
2012	M.A.	Hunter College of the City University of New York Anthropology
2007	B.A.	Columbia University, New York, NY History Evolutionary Biology of the Human Species

APPOINTMENTS

2023-present	Assistant Professor Department of Anthropology, University of Wisconsin-Madison
2022-2023	Postdoctoral Fellow Department of Psychology, University of Michigan Adviser: Dr. Alexandra Rosati
2020-2022	Postdoctoral Fellow Collaborative appointment between Department of Psychology, Carnegie Mellon University and Department of Psychology, UC Berkeley Advisers: Dr. Jessica Cantlon and Dr. Steven Piantadosi

PEER-REVIEWED JOURNAL ARTICLES

Rosati AG, Sabbi KH, **Bryer** MAH, Barnes P, Rukundo J, Mukungu T, Sekulya P, Ampeire I, Aligumisiriza H, Kyama S, Masereka J, Nabukeera W, Okello A, Waiga B, Atwijuze S, Camargo Peña N, Cantwell A, Felsche E, Flores-Mendoza K, Mohamed S, Monroe I, Mulhinch M, O'Gorman K, Salamango J, Shamah R, Otali E, Wrangham RW and ZP Machanda. (2023) Observational approaches to chimpanzee behavior in an African sanctuary: implications for research, welfare, and capacity-building. *American Journal of Primatology*, e23534

Bryer MAH, Koopman SE, Cantlon JF, Piantadosi ST, MacLean EL, Baker JM, Beran MJ, Jones SM, Jordan KE, Mahamane S, Nieder A, Perdue BM, Range F, Stevens JR, Tomonaga M, Ujfalussy DJ, and J Vonk. (2022) The evolution of quantitative sensitivity. *Philosophical Transactions of the Royal Society B: Biological Sciences*, 377: 20200529. DOI:10.1098/rstb.2020-0529

Ross AC, **Bryer** MAH, Chapman CA, Rothman JM, Nevo O, and K Valenta. (2022) Why eat flowers? *Symphonia globulifera* flowers provide a fatty resource for red-tailed monkeys. *Folia Primatologica*. DOI:10.1163/14219980-20211003

Bryer MAH, Chapman CA, Raubenheimer D, Lambert JE, and JM Rothman. (2015) Macronutrient and energy contributions of insects to the diet of a frugivorous monkey (*Cercopithecus ascanius*). *International Journal of Primatology*, 36:839-854.

Rothman JM, Raubenheimer D, **Bryer** MAH, Takahashi M and CC Gilbert. (2014) Nutritional contributions of insects to primate diets: implications for primate evolution. *Journal of Human Evolution*, 71: 59-69.

Bryer MAH, Chapman CA, and JM Rothman. (2013) Diet and polyspecific associations affect spatial patterns of redtail monkeys (*Cercopithecus ascanius*). *Behaviour*, 150:277-293.

BOOK CHAPTERS & EDITED VOLUME

Bryer MAH and Uwimbabazi M (in press, expected July 2024) Applying a framework of social nutrition to primate behavioral ecology. In: Lambert JE, Bryer MAH, Rothman JM, eds. *How Primates Eat: A Synthesis of Nutritional Ecology Across a Mammal Order*. University of Chicago Press.

Lambert JE, **Bryer** MAH, Rothman JM. (Eds.) (in press, expected July 2024) *How Primates Eat: A Synthesis of Nutritional Ecology Across a Mammal Order*. University of Chicago Press.

Rothman JM and **Bryer** MAH. (2019) The effects of humans on the primate nutritional landscape: A review. In: Behie A, Teichroeb J, Malone N, eds. *Primate Research and Conservation in the Anthropocene*. Cambridge Studies in Biological and Evolutionary Anthropology, 82, 199-215.

Rothman JM, Nkurunungi JB, Shannon B and MAH **Bryer**. (2014) High altitude diets: implications for the feeding and nutritional ecology of mountain gorillas. In: Gursky S, Grow, N, eds. *High Altitude Primates*. Springer Series Developments in Primatology, 247-264.

BOOK REVIEWS & OTHER

Sabbi KH, Beveridge S and **Bryer** MAH. (Apr. 2024). A rare treat: Young baboon observed by Nature's Valley Trust researchers snacking on wild mushrooms, *Nature's Letters* 1(1), <https://naturesvalleytrust.co.za/natures-letters/>

Higham JP, Amann AL, **Bryer** MAH, Thompson NA and S Winters. (2013) Review of The Evolution of Primate Societies (Eds. John C. Mitani, Josep Call, Peter M. Kappeler, Ryne A. Palombit, and Joan B. Silk). *International Journal of Primatology*, 34:1298-1303.

Bryer, M and S Schwartz (2010) The National Zoo's O Line: The enrichment value of an orangutan transit system. *Animal Keepers' Forum*, 37(2): 73-76.

INVITED TALKS

February 2024	Keynote speaker for University of Minnesota Undergraduate Anthropology Conference with theme "Anthropology of Food"
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CONFERENCE PRESENTATIONS

Bryer, MAH and Rothman JM. 2023. Social dynamics and nutritional ecology of redbell monkeys in Kibale National Park. Uganda Wildlife Authority Research Symposium, Fort Portal, Uganda.

Bryer MAH, Barnes P, Sabbi KH, Rukundo J, Machanda ZP, and Rosati AG. 2023. Sex differences in semi-free ranging chimpanzees: Insights into evolution of chimpanzee social behavior. Annual Meeting of the American Association of Biological Anthropologists, Reno, NV.

Bryer MAH, Barnes P, Sabbi KH, Rukundo J, Machanda ZP, and Rosati AG. 2022. Sex differences in semi-free ranging chimpanzees: Insights into evolution of chimpanzee social behavior. Midwest Primate Interest Group Annual Meeting, Ann Arbor, MI.

Camargo Peña N, Brodnan S, **Bryer** MAH, Otali E, Muller MN, Emery Thompson M, Wrangham RW, Rosati AG, and Machanda ZP. 2022. Individual variation in patterns of tool use in wild Ugandan chimpanzees. Midwest Primate Interest Group Annual Meeting, Ann Arbor, MI.

Conti, JJ, **Bryer**, MAH, Piantadosi ST, and Cantlon JF. 2022. Comparing learning capacity across species and age to identify origins of human uniqueness. Cognitive Development Society Bi-Ennial Conference, Madison, WI.

Bryer, MAH and Rothman JM. 2020. Extrinsic and intrinsic effects on nutritional strategy in redbell monkeys (*Cercopithecus ascanius*). Annual Meeting of the American Association of Physical Anthropologists, 2021 Virtual Throwback Program.

Bryer, MAH and Rothman JM. 2019. Do polyspecific associations influence nutritional intake of female redbell monkeys (*Cercopithecus ascanius*)? Annual Meeting of the American Association of Physical Anthropologists, Cleveland, OH.

Bryer, MAH, Raubenheimer D, Rothman JM. 2017. Nutritional strategies of female redbell monkeys (*Cercopithecus ascanius*) in Uganda. Annual Meeting of the American Society of Primatologists, Washington, DC.

Bryer MAH, Raubenheimer D, Rothman JM. 2017. Nutritional strategies of female redbell monkeys. Women in Science and Engineering (WiSE) at the City University of New York: Research and Progress Summit, Long Island City, NY.

Bryer MAH, Raubenheimer D, Rothman JM. 2017. Nutritional strategies of female redbell monkeys (*Cercopithecus ascanius*). Annual Meeting of the American Association of Physical Anthropologists, New Orleans, LA.

Bryer MAH and Rothman JM. 2016. The effects of humans on primate nutritional landscapes. Symposium: Reconciling Research and Conservation Priorities: Lessons Learned and Future Directions. Joint Meeting of the International Primatological Society and the American Society of Primatologists, Chicago, IL.

Bryer MAH, Swedell L, Chowdhury S. 2016. Fatty food or fertile females? Consortships and raiding behavior in male chacma baboons in the Cape Peninsula, South Africa. Annual Meeting of the American Association of Physical Anthropologists, Atlanta, GA.

Bryer MA, Raubenheimer D, Chapman CA, Rothman JM. 2012. Invertebrates provide substantial energy and protein for redbell monkeys (*Cercopithecus ascanius*) in Uganda. Annual Meeting of the American Association of Physical Anthropologists, Portland, OR.

Bryer MA, Chapman CA, Rothman JM. 2011. Diet and polyspecific associations affect nearest-neighbor distances of redbell monkeys in Kibale National Park, Uganda. Annual Meeting of the American Association of Physical Anthropologists, Minneapolis, MN.

Bryer MA. The National Zoo's O Line: The enrichment value of an orangutan transit system. 2009. Association of Zoos and Aquariums Annual Conference, Portland, OR.

GRANTS & TRAINING

- 2024 Co-PI on American Society of Primatologists Conservation Small Grant, \$3,500 for pilot study "Pests to Partners: Leveraging behavioral observation as a conservation tool at the intersection of chacma baboon socioecology and community-led forest restoration in Nature's Valley, South Africa."
- 2015-2016 NSF Doctoral Dissertation Research Improvement Grant, \$15,719
- 2015 City University of New York Doctoral Student Research Grant, \$700
- 2012-2015 NSF New York Consortium in Evolutionary Primatology (NYCEP) Integrative Graduate Education and Research Training (IGERT) Trainee

TEACHING EXPERIENCE

University of Wisconsin-Madison, Department of Anthropology
Primate Foraging Cognition (designed seminar course, taught as Anthro 490 Spring 2024)
Primate Nutritional Ecology (designed seminar course, taught as Anthro 690 Spring 2024)
Principles of Biological Anthropology (Fall 2023)

Carnegie Mellon University, Department of Psychology
Animal Minds (co-instructor, Spring 2021, Spring 2022)

Hunter College of the City University of New York, Department of Anthropology:
Human Biology Senior Capstone (instructor of record, Summer 2020);
The Human Species (instructor of record, Summer 2016, Fall 2017, Winter 2017)

Brooklyn College of the City University of New York, Department of Anthropology & Archaeology:
Anthropology of Sex (designed course and instructor of record, Spring 2014, Fall 2013);
Human Origins (instructor of record, Fall 2014)

TEACHING TRAINING AND APPOINTMENTS

- 2024 Completion of The Discussion Project 3-day workshop, Wisconsin Center for Education Research, University of Wisconsin-Madison
- 2020-2021 Completion of the Future Faculty Program, Eberly Center for Teaching Excellence and Educational Innovation, Carnegie Mellon University

- 2020 Adjunct Assistant Professor, Department of Anthropology & interdepartmental Human Biology Program, Hunter College of the City University of New York
- 2013-2014 City University of New York Graduate Teaching Fellowship

CONTINUING EDUCATION

- Spring 2024 Leadership in the Lab workshop series, Learning and Talent Development, Office of Human Resources, University of Wisconsin-Madison

MENTORSHIP

- 2024- Jacob Kraus, PhD committee member, Department of Integrative Biology, University of Wisconsin-Madison
- 2024- Sarah Johnson, PhD committee member, Department of Anthropology, University of Wisconsin-Madison
- 2023- Erica Noble, PhD committee member, Department of Anthropology, University of Wisconsin-Madison
- 2022-2023 Co-mentor Skylar Brodnan (Anthropology, University of Michigan)
Undergraduate honors thesis: "Origins of human culture: Individual variation and social influence in wild chimpanzee tool use"
Received Virginia Voss Award for excellence in academic writing
- 2022 Thesis reader for Julia Salamango (Biopsychology, Cognition, & Neuroscience, University of Michigan)
Undergraduate honors thesis: "Social and ecological flexibility in chimpanzees"
- 2021-2022 Co-mentor Julia Conti (Psychology, Carnegie Mellon University)
PhD student project on cognitive modeling across monkeys and human children
Poster presentation: "Comparing learning capacity across species and age to identify origins of human uniqueness"
- 2018-2019 Co-mentor Kandra Cruz (Anthropology, Hunter College CUNY)
Trained undergraduate in nutritional chemistry assays and provided guidance on poster presentation at Meeting of the American Association of Physical Anthropologists
Project: "Macronutrient composition of foods eaten by owl monkeys (*Aotus azarae*)"
- 2018 Mentor Zoe Krevlin (high school student)
Westchester Science and Engineering Fair project: "Sex differences in feeding intake rates of redtail monkeys (*Cercopithecus ascanius*)"
Received Cornell University Division of Nutritional Science Award

RESEARCH EXPERIENCE

- 2023 Chacma Baboon Project in Nature's Valley, South Africa
In collaboration with Dr. Kris Sabbi (Harvard) and Dr. Hendri Coetzee (Nature's Valley Trust) in December 2023 started a socioecology and applied conservation

project in Nature's Valley in Western Cape of South Africa. Goals include increasing local capacity for both applied conservation and general socioecological research as we build the foundation for a longer partnership implementing sustainable non-destructive solutions to humans living alongside baboons and assessing baboon role as seed dispersing partners in local reforestation efforts.

- 2023 Ngamba Island Chimpanzee Sanctuary, Uganda
Assisted with biological sample collection and ran cholesterol point-of-care analysis during chimpanzee annual health checks; processed urine and fecal samples in preparation for export.
Met with sanctuary staff about ongoing Rosati research group collaboration with sanctuary in observational data collection.
PI: Alexandra Rosati (University of Michigan)

- 2022 Tchimpounga Chimpanzee Sanctuary, Republic of Congo
Observational and experimental data collection on chimpanzee social dynamics and cognition
PI: Alexandra Rosati (University of Michigan)

- 2020-2022 Concepts, Actions and Objects Lab & the computation and language lab
Data collection of behavioral data from touchscreen cognitive tasks by rhesus macaques, meta-analyses and modeling of comparative data using Bayesian and phylogenetic methods
PIs: Jessica Cantlon (Carnegie Mellon), Steven Piantadosi (UC Berkeley)

- 2016-2018 Primate Nutritional Ecology Lab
Nutritional chemistry analyses for dissertation and training of undergraduate research assistants
PI: Jessica Rothman (Hunter College CUNY)

- 2015-2016 Kibale National Park, Uganda
Dissertation research on nutrition and behavior of guenons
PI: Jessica Rothman (Hunter College CUNY)

- 2011-2013 (summers) Kibale National Park, Uganda
Master's thesis on nutrition and behavior of guenons
Pilot study of *in vitro* digestibility assay in the field
PI: Jessica Rothman (Hunter College CUNY)

- 2010 Tokai Forest, Cape Town, South Africa
Research assistantship collecting behavioral data on chacma baboons (*Papio ursinus*)
PI Shahrina Chowdhury (Brooklyn College CUNY)

- 2009 Smithsonian's National Zoological Park, Washington, DC
Internship: orangutan behavioral research project and conservation outreach
PI Amanda Bania (Smithsonian's National Zoological Park)

- 2008 Tiputini Biodiversity Station, Ecuador
Research assistantship collecting behavioral and ranging data on woolly monkeys (*Lagothrix lagotricha*)
PI: Anthony Di Fiore (University of Texas-Austin)

OUTREACH

2024

Published a short report on baboon mushroom-eating for inaugural issue of *Nature's Letters*, a publication led by South African collaborator Dr. Hendri Coetzee meant as journal for local and regional scientific community as well as the public in learning about biology and conservation research occurring in Nature's Valley, South Africa.

2018-2019

Scientist pen pal with a middle school public school student as part of Letters to a Pre-Scientist program.

2016

Co-led workshop with New Nature Foundation, local conservation educators, elders and children in community next to Kibale National Park, Uganda, to foster conservation communication across generations.

2016

Taught classes on Ugandan primate diversity and conservation to primary and middle school students at Green Circle School in Fort Portal, Uganda. Also developed and distributed primate conservation education materials at the request of Ugandan instructors.

2015

Presented research by the Hunter College Primate Nutrition Project to field school undergraduates at Makerere Biological Field Station, Uganda.

2013

Presented on primate diversity to a pre-kindergarten class, Brooklyn, NY.

2009

Presented orangutan behavior research and spoke to the public about primate conservation at the Smithsonian Conservation Biology Institute's Autumn Conservation Festival, Front Royal, VA.

2008

Presented information on Tiputini Biodiversity Station's primate populations to field school students in Ecuador.

SERVICE

2023 – present

Review Editor on the Editorial Board of Animal Nutrition, specialty section of *Frontiers in Animal Science*
Reviewed: 4 manuscripts

Reviewed manuscripts for the following journals (2017 - present): *African Journal of Ecology* (1), *American Journal of Primatology* (4), *Behavioral Ecology* (1), *Behavioral Ecology and Sociobiology* (1), *Canadian Journal of Zoology* (1), *Ecology and Evolution* (1), *Frontiers in Animal Science* (4), *International Journal of Primatology* (6), *Journal of Human Evolution* (1), *Oecologia* (1), *PLOS ONE* (2), *Primates* (2)

Of the above, Fall 2023 - present reviews completed: *Primates* (2), *Behavioral Ecology and Sociobiology* (1), *Frontiers in Animal Science*, Animal Nutrition section (4), *AJP* (1)

Department Service

2023-2024 Lectures & Colloquium committee member
2023-2024 Events committee member
2024- Graduate Studies committee member
2024- Curriculum/TA Policies and Procedures committee member
2024- Diversity and Inclusion committee member

National Service

2024- Organizing committee for Nutritional Ecology Working Group research symposium "Dietary balancing acts: the nutritional geometry of feeding decisions in wildlife ecology" for the The Wildlife Society annual meeting
2024- Nutritional Ecology Working Group of The Wildlife Society, Education committee member (Education logistics sub-committee)
2024- Nutritional Ecology Working Group of The Wildlife Society, Student-New Professional committee member (Scholarship sub-committee)

PROFESSIONAL AFFILIATIONS

American Association of Biological Anthropologists, International Primatological Society, American Society of Primatologists, The Wildlife Society - Nutritional Ecology Working Group, Association for Tropical Biology and Conservation