

# 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 (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.) (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

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

2024 University of Minnesota Behavior Group talk in UMN Department of Ecology, Evolution and Behavior

## CONFERENCE PRESENTATIONS

Rothman JM, **Bryer** MAH, Tumwesigye C, Gessa S, Tumusiime D, and Makombo J. 2024. Long term studies of nutritional ecology: Implications for conservation and policy. 60th Annual Meeting of the Association for Tropical Biology and Conservation, Kigali, Rwanda.

**Bryer**, MAH and Rothman JM. 2023. Social dynamics and nutritional ecology of redbtail 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 redbtail 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 redbtail 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 redbtail 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 redbtail 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 redbtail 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 redtail 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 redtail 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 International Primatological Society Research Grant with Community Conservation Initiative component, \$2,000           |
| 2024      | Co-PI on American Society of Primatologists Conservation Small Grant, \$3,500                                                    |
| 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); added primate origins lab and in collaboration with Dr. John Hawks (UW-Madison, 3D printing) and Dr. Stephen Chester (Brooklyn College CUNY, shared files) added 3D-printed plesiadapiforms and early crown (eu)primates to teaching collection.

**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 Thesis reader for Kara Hartunian (Animal Behavior and Conservation Program, Department of Psychology, Hunter College CUNY)  
M.A. thesis: "Sex differences in the diets of forest-dwelling baboons (*Papio anubis*)"
- 2024 Jacob Kraus PhD committee member, "Behavioral variation and flexibility of snub-nosed monkeys (*Rhinopithecus* spp.)," Department of Integrative Biology, University of Wisconsin-Madison
- 2024-present Sarah Johnson PhD committee member, Department of Anthropology, University of Wisconsin-Madison
- 2023-present 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-present Co-Director of Nature’s Valley Baboon Project, 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.
- 2024-present L’Hoest’s Monkey Socioecology Project, Kanyawara, Kibale National Park  
Started comparative guenon project, including habituation and start of socioecological data collection of one L’Hoest’s monkey group at Kanyawara, Kibale National Park.
- 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 (2 accepted after revisions)

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* (2), *International Journal of Primatology* (6), *Journal of Human Evolution* (1), *Oecologia* (1), *PLOS ONE* (2), *Primates* (2)

Of the above, Fall 2023 to 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-present      Nutritional Ecology Working Group of The Wildlife Society, Education committee member (Education logistics sub-committee)  
2024-present      Nutritional Ecology Working Group of The Wildlife Society, Student-New Professional committee member (Scholarship sub-committee)

### Other service:

2023      Judge for the Midwest Primate Interest Group Annual Meeting student competition, St. Louis, MO  
2024      Judge for the Association for Tropical Biology and Conservation’s student awards competition, Kigali, Rwanda

## 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