

# MARGARET A. H. BRYER

## Curriculum Vitae

Postdoctoral Research Fellow  
Department of Psychology, University of Michigan  
Email: [mbryer@umich.edu](mailto:mbryer@umich.edu)

### 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

2022-present	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 Canton 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 VOLUMES**

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

Lambert JE, Rothman JM, **Bryer MAH**. (Eds.) (in press) *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 & ESSAYS**

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.

## **CONFERENCE PRESENTATIONS**

**Bryer**, MAH and Rothman JM. 2023. Social dynamics and nutritional ecology of redtail 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 & AWARDS

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

**Carnegie Mellon University**, Department of Psychology  
Animal Minds (co-instructor of record, 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

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 Fellow

## MENTORSHIP

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 (Department of Psychology, Carnegie Mellon)  
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" (Cognitive Development Society)

2018-2019 Co-mentor Kandra Cruz (Department of Anthropology, Hunter College CUNY)  
Training undergraduate in nutritional chemistry assays and providing 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*)"  
*Cornell University Division of Nutritional Science Award winner*

## RESEARCH EXPERIENCE

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), Steve 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 of the City University of New York)

2015-2016 Kibale National Park, Uganda  
Dissertation research on nutrition and behavior in guenons  
PI: Jessica Rothman, (Hunter College of the City University of New York)

2011-2012 Kibale National Park, Uganda  
Master's thesis on nutrition and behavior in guenons  
PI: Jessica Rothman (Hunter College of the City University of New York)

2010 Tokai Forest, Cape Town, South Africa  
Research assistant: behavioral data on chacma baboons (*Papio ursinus*)  
PI: Shahrina Chowdhury (Brooklyn College of the City University of New York)

2009 Smithsonian's National Zoological Park, Washington, DC  
Internship: orangutan behavioral research 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*) at Tiputini Biodiversity Station, Ecuador  
PI: Anthony Di Fiore (University of Texas-Austin)

## **OUTREACH**

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**

Reviewed manuscripts: *African Journal of Ecology* (1), *American Journal of Primatology* (3), *Behavioral Ecology* (1), *Canadian Journal of Zoology* (1), *Ecology and Evolution* (1), *International Journal of Primatology* (5), *Journal of Human Evolution* (1), *Oecologia* (1), *PLOS ONE* (2)

## **PROFESSIONAL AFFILIATIONS**

American Association of Physical Anthropologists, International Primatological Society, The Wildlife Society, Cognitive Science Society