

MICHELLE BROWN

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Updated: October 2022

POSITIONS

2015 – present Assistant Professor, University of California, Santa Barbara
2021 – present: Research Affiliate, Broom Center for Demography
2021 – present: Research Affiliate, Center for Black Studies Research
2018 – present: Co-Director, Biobehavioral Health Laboratory
2011 – 2014 Postdoctoral Research Fellow, University of New Mexico
2007 – present Founder and Director, Ngogo Monkey Project

EDUCATION

2011 Ph.D. Columbia University, Evolutionary Primatology
2005 M.A. Columbia University, Evolutionary Primatology
2000 A.B. Harvard University, Cognitive Neuroscience, *cum laude* with honors

RESEARCH INTERESTS

Primate community energetics. My central research project documents the extensive and fluctuating energetic effects of between-species competition. I hypothesize that this neglected aspect of community ecology fundamentally shapes competitive dynamics within species (intergroup conflict and intragroup dominance), as well as the patterning of cooperative relationships and group structure.

Status: in progress. NSF award #s 2127253, 2216699 and awards from the UCSB Academic Senate and Institute for Social, Behavioral & Economic Research.

Diversity in anthropological fieldwork. The lack of diversity among biological anthropologists is due, in part, to the difficulty that members of historically marginalized groups face in obtaining fieldwork experience before graduate school. My long-term goal is to establish a national center that pairs mentees and mentors, distributes funding for fieldwork experiences, and provides professional development training for diverse post-baccalaureates.

Status: in progress. We surveyed the perspectives of US anthropology faculty on pre-graduate fieldwork, and are now writing up the results for publication. Plan to apply for NSF funding to launch a national training network for post-bacc students.

Soundscapes as a selective pressure on social evolution. This project is designed to contextualize the adaptive function of a unique communication system among L'Hoest's monkeys, by evaluating the broader acoustic landscape and its effects on vocal communication and social dynamics in the Kibale primate community.

Status: in development. Pilot funding obtained from NSF (award # 2148760) and UCSB. Additional proposals to US NSF / UK RI and National Geographic planned in 2023.

PUBLICATIONS

[ORCID # 0000-0002-2995-1745]

Frogge, H., Jones, R.A., Angedakin, S., Busobozi, R., Kabagambe, P., Angwela, F.O., Thompson González, N., & Brown, M. 2022. Constraints on population growth of blue monkeys (*Cercopithecus mitis*) in Kibale National Park, Uganda. *Behaviour* 159:961-987. DOI: 10.1163/1568539X-bja10160

Brown, M., Steinitz, R., and Emery Thompson, M. 2022. Wins and losses in intergroup conflicts reflect energy balance in red-tailed monkeys. *Philosophical Transactions of the Royal Society B* 377:20210152. DOI: 10.1098/rstb.2021.0152

Kavanagh, E., Street, S., Bergman, T.J., Blaszczyk, M., Briseño-Jaramillo, M., Bolt, L.M., Brown, M., ... Slocombe, K. [61 authors in total] 2021. Dominance style is a key predictor of vocal use and evolution across nonhuman primates. *Royal Society Open Science* 8: 210873. DOI: 10.1098/rsos.210873

Ochieng, J.R., Rwego, I.B., Kisakye, J.J.M., Brown, M. 2021. Gastrointestinal parasites of overlapping groups of blue monkeys (*Cercopithecus mitis*) and grey-cheeked mangabeys (*Lophocebus albigena*) at the Ngogo Research Site in Kibale National Park, Uganda. *African Journal of Ecology* 59(2):489-496. DOI: 10.1111/aje.12833

Knott, C., ... Brown, M., ... Susanto, T.W. [45 authors in total] 2021. The Gunung Palung Orangutan Project: Twenty-five years at the intersection of research and conservation in a critical landscape in Indonesia. *Biological Conservation* 255:108856. DOI: 10.1016/j.biocon.2020.108856

Brown, M. 2020. Detecting an effect of group size on individual responses to neighboring groups in grey-cheeked mangabeys (*Lophocebus albigena*). *International Journal of Primatology* 41:287-304. DOI: 10.1007/s10764-020-00144-9

Brown, M. 2020. An observation of intergroup infanticide in grey-cheeked mangabeys (*Lophocebus albigena*). *Behaviour* 157(12-13):1091-1098. DOI: 10.1163/1568539X-bja10031

McLester, E., Brown, M., Stewart, F., and Piel, A. 2019. Food abundance and weather influence habitat-specific ranging patterns in forest- and savanna mosaic-dwelling red-tailed monkeys (*Cercopithecus ascanius*). *American Journal of Physical Anthropology* 170(2):217-231. DOI: 10.1002/ajpa.23920

Jaeggi, A.V., Trumble, B.C., and Brown, M. 2018. Group-level competition influences urinary steroid hormones among wild red-tailed monkeys, indicating energetic costs. *American Journal of Primatology* 80:e22757. DOI: 10.1002/ajp.22757

Brown, M. and Waser, P. 2018. Group movements in response to competitors' calls indicate conflicts of interest between male and female grey-cheeked mangabeys (*Lophocebus albigena*). *International Journal of Primatology* 80:e22918. DOI: 10.1002/ajp.22918

Goldberg, T.L., Angedakin, S., Basuta, G.M.I., Brown, M., Butynski, T.M., Chapman, C.A., et al. 2016. Remembering Jerry Lwanga: a perspective from his colleagues. *International Journal of Primatology* 37(2): 131-135. DOI: 10.1007/s10764-015-9888-3

Brown, M. 2014. Patch occupation time predicts responses by grey-cheeked mangabeys (*Lophocebus albigena*) to real and simulated neighboring groups. *International Journal of Primatology* 35(2):491-508. DOI: 10.1007/s10764-014-9762-8

Brown, M. 2013. Food and range defense in group-living primates. *Animal Behaviour* 85(4):807-816, DOI: 10.1016/j.anbehav.2013.01.027

Brown, M. and Crofoot, M. 2013. Social and spatial relationships between primate groups. In: *Primate Ecology and Conservation* (pp. 151-176). Eds: Sterling, E., Bynum, N., and Blair, M. Oxford University Press.

Beehler, B.M., Stevenson, T.C., and Brown, M. 2004. Letters to the editor: Virgin rainforests and conservation. *Science* 305:943-944, DOI: <http://www.jstor.org/stable/3837537>

Hare, B., Brown, M., Williamson, C., and Tomasello, M. 2002. The domestication of social cognition in dogs. *Science* 298:1634-1636, DOI: <http://www.jstor.org/stable/3832853>

OTHER MANUSCRIPTS

Brown, M. and Gaffney, M. Submitted. Range utilization slopes as a measure of central tendency and intergroup overlap in primates. *Behavioral Ecology and Sociobiology*.

Jones, R.A., Frogge, H., Dopulos, C., Lee, L., Mitchell, S., Soto, A., Tetreault, F., Utter, J., Valdez, A., Emery Thompson, M., & Brown, M. In prep. Sublethal energetic effects of gastrointestinal parasite infection.

Steinitz, R., Potts, K., Bryer, M., Rothman, J., Emery Thompson, M., & Brown, M. In prep. Energetic and reproductive consequences of interspecific competition on a small-bodied primate.

RESEARCH & FELLOWSHIP FUNDING

2022	National Science Foundation	DDRIG: Biological Anthropology
2022	National Science Foundation	High-Risk Research in Biological Anthropology
2022	UCSB Academic Senate	Faculty Research Grant
2022	Institute for Social, Behavioral & Economic Research	Social Science Research Grant
2021	National Science Foundation	Build & Broaden Research Grant
2021	UCSB Division of Social Sciences	Matching Funds for Build & Broaden
2020	UCSB Academic Senate	Faculty Research Grant
2020	UCSB Office of Academic Personnel	Faculty Career Development Award
2017	Hellman Family Foundation	Faculty Fellowship
2016	American Association of Physical Anthropologists	Professional Development Grant
2015	UCSB Academic Senate	Faculty Research Grant
2015	Institute for Social, Behavioral & Economic Research	Social Science Research Grant
2013	Leakey Foundation	General Research Grant
2011	National Science Foundation	Postdoctoral Research Fellowship
2010	International Primatological Society	Student Competition, 3 rd place
2010	American Society of Primatologists	Ruppenthal Student Travel Award
2009	National Science Foundation	GK-12 Fellowship
2008	National Science Foundation	Doctoral Dissertation Improvement Grant
2008	Leakey Foundation	Research Grant

2008	International Primatological Society	Research Grant
2007	Columbia University	Traveling Fellowship
2007	Animal Behavior Society	Diversity Fund Award
2005	National Science Foundation	Graduate Research Fellowship Program
2004	Ford Foundation	Predocctoral Diversity Fellowship
2004	Columbia University	Faculty Fellow
2000	Orangutan Foundation International	Lorraine P. Jenkins Fellowship
2000	Sigma Xi	Grants-In-Aid of Research
2000	Harvard-Radcliffe College	Travelling Fellowships
2000	Harvard University	Undergraduate Thesis Research Fund

INVITED LECTURES

Sep 2022	University of Minnesota	Dept of Anthropology
Nov 2021	University of Michigan	Evolution and Human Adaptation Program
Mar 2021	Univ. Southern California	Dept of Biological Sciences
Dec 2020	Duke University	Long Term Animal Research Seminar series
Nov 2020	UC Santa Barbara	Dept of Ecology, Evolution, and Marine Biology
	New York Consortium in Evolutionary Primatology	New York Regional Primatology Colloquium Series
	Stony Brook University	Behavioral Ecology Group
	Duke University	Evolutionary Anthropology Seminar series
Jan 2020	Max Planck Institute	Research Group Leader Symposium
May 2019	UC Santa Cruz	Department of Anthropology
	UC Santa Barbara	Center for Evolutionary Psychology
Nov 2018	UC Santa Barbara	Dept of Anthropology
Oct 2016	UCLA	Center for Behavior, Evolution, & Culture
Mar 2016	Arizona State University	Evolution of Social Complexity Seminar series
Sep 2015	NIMBioS	“Evolution and Warfare” workshop
Mar 2015	UC Davis	Dept of Anthropology
Oct 2014	Florida Atlantic University	Dept of Anthropology
May 2014	UC Santa Barbara	Dept of Anthropology
Jan 2014	Kent State University	Dept of Anthropology
Jan 2011	University of Pennsylvania	Depts of Biology and Psychology
Nov 2010	Stony Brook University	Behavioral Ecology Group
Nov 2010	Yale University	Dept of Anthropology

CONFERENCE PRESENTATIONS

Dopulos, C., Frogge, H., Jones, R., Thompson González, N. and Brown, M. May 2022. “Parasite pals: Gastrointestinal parasite co-infection in sympatric monkeys.” California Workshop on Evolutionary Social Sciences (poster). **Awarded 1st place in the poster competition.**

Liao, J., Crommelin, S., and Brown, M. May 2022. “Inter-group competition and home range geometry.” California Workshop on Evolutionary Social Sciences (poster).

Mackay, K., Steinitz, R., and Brown, M. Apr 2022. "Evaluation of NDVI and EVI as measures of food availability for fruit-eating monkeys." California Geographical Society (poster).

Awarded 1st place in the poster competition.

Brown, M., Gaffney, M., and Emery Thompson, M. May 2021. "Ranging correlates with energy balance among red-tailed monkey (*Cercopithecus ascanius*) groups." American Association of Physical Anthropologists (podium).

Steinitz, R., Emery Thompson, M., and Brown, M. May 2021. "Red-tailed monkeys (*Cercopithecus ascanius*) employ both behavioral and physiological strategies to overcome seasonal hardship." American Association of Physical Anthropologists (poster).

Kavanagh, E., ... Brown, M., ... Slocombe, K. Sep 2019. "Dominance style and vocal communication in primates." European Federation for Primatology (podium).

McLester, E., Brown, M., Steward, F.A., & Piel, A.K. Sep 2019. "Thermal constraints on habitat use in forest- and savanna mosaic-dwelling red-tailed monkeys (*Cercopithecus ascanius*)." European Federation for Primatology (poster).

Knott, C.D., Crowley, B., Brown, M., Susanto, T.W. March 2019. "Fecal isotopes as indicators of weaning and diet in wild Bornean orangutans." American Association of Physical Anthropologists (podium).

Frogge, H., Utter, J., Jones, R., and Brown, M. April 2019. "Health and Disease in a Declining Population of Blue Monkeys (*Cercopithecus mitis*)." California Workshop on Evolutionary Social Sciences (poster). **Awarded 2nd place in student poster competition.**

Utter, J., Frogge, H., Jones, R., and Brown, M. April 2019. "Evaluation of analytical methods for measuring gastrointestinal parasite burden and implications for long-term sample storage." California Workshop on Evolutionary Social Sciences (poster).

Brown, M. August 2018. "Sex-specific (and individual and group-wide) responses to neighboring groups' long-distance vocalizations in wild grey-cheeked mangabeys (*Lophocebus albigena*) in Kibale National Park, Uganda." International Primatological Society (podium).

Steinitz, R.B., Emery Thompson, M., and Brown, M. May 2018. "Surviving on scraps: Red-tailed monkeys rely on important foods during times of intense feeding competition." California Workshop on Evolutionary Social Sciences (poster).

Gaffney, M. and Brown, M. May 2017. "A test of the risk hypothesis: home range utilization patterns correspond with physical risk during intergroup encounters." California Workshop on Evolutionary Social Sciences (poster). **Awarded 1st place in student poster competition.**

Brown, M. August 2016. "Correlated functions and outcomes of intergroup aggression in wild redtail monkeys (*Cercopithecus ascanius*) in Kibale National Park, Uganda." International Primatological Society / American Society of Primatologists (podium).

Jones, R.A. and Brown, M. August 2016. "Parasite infection in wild blue monkeys (*Cercopithecus mitis*) in Kibale National Park, Uganda." International Primatological Society / American Society of Primatologists (podium).

Brown, M. April 2015. “Male monopolies and female gangs: conflicts of interest during primate intergroup interactions.” California Workshop on Evolutionary Social Sciences (podium).

Brown, M. and Emery Thompson, M. March 2015. “Energy balance and stress responses correspond with individual participation by redbell monkeys in aggressive intergroup interactions.” American Association of Physical Anthropologists (poster).

Brown, M. 2014. “Competing demands of food vs. mate defense during primate intergroup interactions.” Animal Behavior Society (podium).

Jones, R.A., Brown, M., and Emery Thompson, M. 2014. “A perfect storm: multiple constraints on population growth in blue monkeys (*Cercopithecus mitis*) in Kibale National Park, Uganda.” Animal Behavior Society (podium).

Brown, M. and Emery Thompson, M. 2014. “Strong group effects on energetic balance in redbell monkeys (*Cercopithecus ascanius*).” American Association of Physical Anthropologists (podium).

Brown, M. September 2010. “Rethinking the causes of sex-specific aggression during intergroup encounters: Lessons from grey-cheeked mangabeys (*Lophocebus albigena*) and redbell monkeys (*Cercopithecus ascanius*).” International Primatological Society (podium).

Awarded third place in the student presentation competition.

Brown, M. June 2010. “Do grey-cheeked mangabey (*Lophocebus albigena*) groups in Kibale National Park, Uganda, continue to avoid their neighbors as the population density increases?” American Society of Primatologists (podium).

Brown, M. April 2010. “Sex-specific responses to naturally-occurring and simulated intergroup encounters.” American Association of Physical Anthropologists (podium).

Brown, M. September 2009. “Sex-specific strategies during simulated intergroup encounters in grey-cheeked mangabeys (*Lophocebus albigena*) in Kibale National Park, Uganda.” American Society of Primatologists (podium).

Brown, M. July 2007. “Predicting sex-specific participation during intergroup interactions in primates.” Animal Behavior Society (podium).

Brown, M. and Cords, M. March 2007. “Spatial Position and Dominance Rank in Blue Monkeys (*Cercopithecus mitis stuhlmanni*).” American Association of Physical Anthropologists (poster).

MENTORING

MA/PhD committee chair, Ronnie Steinitz, in progress (UCSB)

MA/PhD committee chair, Hannah Frogge, in progress (UCSB)

MA/PhD committee chair, Janine Klein, in progress (UCSB)

MA/PhD committee chair, Leonie Gussone, in progress (UCSB)

MA/PhD committee member, Bidisha Chakraborty, in progress (UC Davis)

MA committee member, Zhian Chen, in progress (UCSB)

BA honors thesis advisor, Sean Crommelin, 2022 (UCSB)

MS external advisor, James Robert Ochieng, 2019 (Makerere University)

BS external advisor, Joel Steven, 2019 (Makerere University)

BS external advisor, Salmah Jombela, 2019 (Makerere University)
MA committee chair, Evan Beierschmitt, 2018 (UCSB)
PhD committee member, Angela Garcia, 2018 (UCSB)
MS external advisor, Mary Alum, 2012 (Makerere University)

2022-23: mentoring 8 UCSB undergraduates in research methods through paid internships (all belong to historically marginalized racial and ethnic groups in STEM disciplines)

2021-22: mentored 14 UCSB undergraduates in research methods through paid internships (13 belong to marginalized groups in STEM disciplines).

2015-21: individualized research training for 23 UCSB undergraduates (for course credit), 11 from marginalized groups in STEM disciplines, 5 are now in graduate school.

TEACHING AT UCSB

ANTH 153T Primate Behavior (upper-division undergraduate lecture)
ANTH 103 Human-Wildlife Interactions (upper-division undergraduate seminar)
ANTH 123 Feeding Ecology in Primates & Humans (upper-division undergraduate seminar)
ANTH 197 Endocrinology Laboratory Methods (upper-division lab course)
INT 84ZP Observing Behavior (undergraduate honors seminar)
ANTH 202 Advanced Topics in Primatology (graduate seminar)
ANTH 241 Current Methods & Theory in Biological Anthropology (graduate seminar)
ANTH 250 Professional Development (graduate seminar)

UNIVERSITY SERVICE

Department of Anthropology Development/Website/Media Committee (2022 - present)
BioEngineering Building COVID-19 Committee (2021-present)
Department of Anthropology *Ad Hoc* Committee on Anti-Racism (2020)
Department of Anthropology Diversity Committee (2016 - 2017, 2020 - present)
Department of Anthropology Graduate Committee (2016 - 2019)
Department of Anthropology Colloquium Committee (2015 - 2016)

PROFESSIONAL SERVICE & AFFILIATIONS

Editorial board member: American Journal of Primatology; Evolutionary Anthropology

Journal article reviews: American Journal of Primatology; American Journal of Physical / Biological Anthropology; Behavioural Processes; Evolutionary Anthropology; Hormones and Behavior; International Journal of Primatology; PLOS One; PNAS; Primates

Proposal reviews: Leakey Foundation; Max Planck Institute of Animal Behavior, Dept for the Ecology of Animal Societies; National Geographic Society; National Science Foundation

Memberships: American Association of Physical/Biological Anthropologists; American Society of Primatologists; Animal Behavior Society; International Primatological Society; International Society of Wildlife Endocrinology