

## Colin M. Brand, Ph.D.

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### Education

- 2021    **Ph.D.**, Anthropology, University of Oregon, Eugene, OR, USA.
- 2015    **M.S.**, Anthropology, University of Oregon, Eugene, OR, USA.
- 2014    **B.A.**, Anthropology with Departmental Honors, Botany, Environmental Science, Zoology, Miami University, Oxford, OH, USA.

### Appointments

- 2021 - Present    **Postdoctoral Scholar**, Bakar Computational Health Sciences Institute and Department of Epidemiology & Biostatistics, University of California San Francisco, San Francisco, CA, USA.

### Peer-Reviewed Publications

*Preprints only listed here until acceptance in a peer-reviewed journal.*

#### Preprints

- 18.    **Brand CM**, Colbran LL, Capra JA. 2022b. Resurrecting the alternative splicing landscape of archaic hominins using machine learning. *bioRxiv*. 🌐 DOI: 10.1101/2022.08.02.502533.
- 17.    **Brand CM**, White FJ, Ting N, Webster TH. 2021. Soft sweeps predominate recent positive selection in bonobos (*Pan paniscus*) and chimpanzees (*Pan troglodytes*). *bioRxiv*. 🌐 DOI: 10.1101/2020.12.14.422788.

#### Journal Articles

- 16.    **Brand CM**, Colbran LL, Capra JA. 2022a. Predicting archaic hominins phenotypes from genomic data. *Annual Review of Genomics and Human Genetics*. 23: 591–612. 🌐 DOI: 10.1146/annurev-genom-111521-121903.
- 15.    **Brand CM**, White FJ, Rogers AR, Webster TH. 2022. Estimating bonobo (*Pan paniscus*) and chimpanzee (*Pan troglodytes*) evolutionary history from nucleotide site patterns. *Proceedings of the National Academy of Sciences*. 119: e2200858119. 🌐 DOI: 10.1073/pnas.2200858119.
- 14.    Hickmott AJ, Boose KJ, Wakefield ML, **Brand CM**, Snodgrass JJ, Ting N, White FJ. 2022. A comparison of faecal glucocorticoid metabolite concentration and gut microbiota diversity in bonobos (*Pan paniscus*). *Microbiology*. 168, 001226. 🌐 DOI: 10.1099/mic.0.001226.
- 13.    Edes AN, **Brand CM**. 2021. Age, sex, and inflammatory markers predict chronic conditions, cardiac disease, and mortality among captive western lowland gorillas (*Gorilla gorilla gorilla*). *Primates*. 62: 931–943. 🌐 DOI: 10.1007/s10329-021-00942-6.
- 12.    Hickmott A, Waller M, Wakefield M, Malone N, **Brand CM**, White F. 2021. A test of foraging models using dietary diversity indices for the Lomako Forest bonobos. *Folia Primatologica*. 92: 211–226. 🌐 DOI: 10.1159/000519722.
- 11.    **Brand CM**, Johnson MB, Parker LD, Maldonado JE, Korte L, Vanthomme H, Alonso A, Ruiz-Lopez MJ, Wells CP, Ting N. 2020. Abundance, density, and social structure of African forest elephants (*Loxodonta cyclotis*) in a human-modified landscape in southwestern Gabon. *PLOS ONE*. 15: e0231832. 🌐 DOI: 10.1371/journal.pone.0231832.

10. Gartland KN, **Brand CM**, Ulibarri LR, White FJ. 2020. Variation in adult male-juvenile affiliative behavior in Japanese Macaques (*Macaca fuscata*). *Folia Primatologica*. 91: 610–621. [DOI: 10.1159/000508761](#).
9. White FJ, **Brand CM**, Hickmott AJ, Minton IR. 2020. Sex differences in bonobo (*Pan paniscus*) terrestriality: Implications for human evolution. *Journal of Anthropological Sciences*. 98: 5–14.
8. **Brand CM**, Marchant LF. 2019. Social hair plucking is a grooming convention in a group of captive bonobos (*Pan paniscus*). *Primates*. 60: 487–491. [DOI: 10.1007/s10329-019-00764-7](#).
7. Wakefield M, Hickmott A, **Brand CM**, Takaoka I, Meador L, Waller M, White F. 2019. New observations of meat eating and sharing in wild bonobos (*Pan paniscus*) at Iyema, Lomako Forest Reserve, Democratic Republic of the Congo. *Folia Primatologica*. 90: 179–189. [DOI: 10.1159/000496026](#).
6. Boose K, White F, **Brand CM**, Meinelt A, Snodgrass J. 2018. Infant handling in bonobos (*Pan paniscus*): Exploring functional hypotheses and the relationship to oxytocin. *Physiology and Behavior*. 193: 154–166. [DOI: 10.1016/j.physbeh.2018.04.012](#).
5. **Brand CM**, Marchant LF. 2018. Prevalence and characteristics of hair plucking in captive bonobos (*Pan paniscus*) in North American zoos. *American Journal of Primatology*. 80: e22751. [DOI: 10.1002/ajp.22751](#).
4. **Brand CM**, Marchant L, Boose K, White F, Rood T, Meinelt A. 2017. Laterality of grooming and tool use in a group of captive bonobos (*Pan paniscus*). *Folia Primatologica*. 88: 210–222. [DOI: 10.1159/000477804](#).
3. **Brand CM**, Boose KJ, Squires EC, Marchant LF, White FJ, Meinelt A, Snodgrass JJ. 2016a. Hair plucking, stress, and urinary cortisol among captive bonobos (*Pan paniscus*). *Zoo Biology*. 35: 415–422. [DOI: 10.1002/zoo.21320](#).
2. **Brand CM**, White FJ, Wakefield ML, Waller MT, Ruiz-Lopez MJ, Ting N. 2016b. Initiation of genetic demographic monitoring of bonobos (*Pan paniscus*) at Iyema, Lomako Forest, DRC. *Primate Conservation*. 30: 103–111.
1. **Brand CM**, Marchant LF. 2015. Hair plucking in captive bonobos (*Pan paniscus*). *Applied Animal Behaviour Science*. 171: 192–196. [DOI: 10.1016/j.applanim.2015.08.002](#).

## Teaching

### University of Oregon (Instructor)

2021	Human Biological Variation
	Human Growth and Development
	Statistics for Biological Anthropologists
2020	Introduction to Nutritional Anthropology
2017	Primate Behavior
2016	Evolution of Human Sexuality

### University of Oregon (Graduate Teaching Fellow)

2019	Evolutionary Medicine
2018	Principles of Archaeology
	Statistics for Biological Anthropologists
2015 - 2020	Evolution of Human Sexuality

## Teaching (continued)

- 2015 Introduction to Human Origins  
2014 - 2015 Introduction to Monkeys and Apes

## Research Grants

- 2017 **Young Explorer's Grant, National Geographic Society**, \$5000, "Adult male-infant interactions among wild bonobos."
- 2015 **International Research Award, University of Oregon Global Studies Institute**, \$1000, "Adult male-infant interactions among wild bonobos."
- 2013 **Dean's Scholar Award, Miami University College of Arts and Science**, \$750, "Grooming in captive bonobos (*Pan paniscus*)."
- Rebecca Jeanne Andrew Memorial Award, Miami University Department of Anthropology**, \$500, "Hair plucking in captive bonobos (*Pan paniscus*)."
- 2012 **Rebecca Jeanne Andrew Memorial Award, Miami University Department of Anthropology**, \$750, "Hair plucking in captive bonobos (*Pan paniscus*)."

## Workshops

- 2022 Simulation with msprime. AGAR Workshop on Computational Genetics. Virtual.
- 2019 Ways to assess: Links between behavior, welfare, and physiological measures. Pre-ASP Workshop: Identifying and treating abnormal behaviors in non-human primates. Madison, WI, USA.
- An introduction to information theory and multimodel inference. Smithsonian Conservation Biology Institute. Front Royal, VA, USA.

## Awards

- 2021 Outstanding Student Employee, University of Oregon
- 2018 Risa Palm Graduate Fellowship, University of Oregon
- 2016 Malcom McFee Award, Anthropology, University of Oregon
- 2014 Best Paper in Archaeology Award, Anthropology, Miami University
- Employee Service Leadership Award, Miami University
- President's Distinguished Service Award, Miami University
- Senior Service Award, Anthropology, Miami University
- Senior Service Leadership Award, Miami University
- 2013 Provost's Student Academic Achievement Award, Miami University
- 2012 Employee Service Leadership Award, Miami University

## Mentees

\* *Student presented research at  $\geq 1$  national conference(s)*

- 2020 - 2021 Liam Stone\*, Social costs of reproduction in ring-tailed lemurs  
Riley Male\*, Social costs of reproduction in ring-tailed lemurs
- 2018 - 2019 Sarah Brown, Accuracy and precision of primate manual 2D:4D measurements, *Received the Museum of Natural and Cultural History's Best Poster Award at the 2019 UO Undergraduate Research Symposium*

## Mentees (continued)

	Kendall Soriano, Accuracy and precision of primate manual 2D:4D measurements, <i>Received the Museum of Natural and Cultural History's Best Poster Award at the 2019 UO Undergraduate Research Symposium</i>
	Erick Wonderly, Niche differentiation in three sympatric lemur species.
2017 - 2019	Mariah Bloom*, Cost alleviation associated with dating apps, Linearity and stability of dominance hierarchies in ring-tailed lemurs
	Troi Feinberg, Abundance, diet, and habitat use of duikers at Lomako, DRC
2017 - 2018	Nora Sawyer, Linearity and stability of dominance hierarchies in ruffed lemurs
2016 - 2018	India Brock*, Linearity and stability of dominance hierarchies in ruffed lemurs, Review of artificial crossing structure among wild primates
2014 - 2016	Leslie Gotuaco*, Affiliative behavior in ring-tailed lemurs, Survey of captive primate artificial crossing structures

## Travel Awards

2021	William S. Pollitzer Student Travel Award, American Association of Physical Anthropologists
2020	Health Education Award, \$250, Anthropology, University of Oregon
2017	Pauline Wollenberg Juda Memorial Endowment Fund Award, \$250, Anthropology, University of Oregon
2014	Undergraduate Presentation Award, \$200, Office for the Advancement of Scholarship and Research, Miami University
2013	Cambridge Junior Visiting Fellows Fund, \$500, College of Arts and Science, Miami University
2012	Undergraduate Presentation Award, \$200, Office for the Advancement of Scholarship and Research, Miami University

Date: December 5, 2022