Christina Bergey

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Education

2016	**Post-doctoral Researcher**, Perry Lab, Penn State University
2015-2016	**Post-doctoral Researcher**, Besansky Lab, University of Notre Dame
2009-2015	**Ph.D.** Physical Anthropology, New York University
2011	**M.A.** Physical Anthropology, New York University
2005-2009	**B.A.** Anthropology, New York University

Publications

Jolly, C. J., Bergman, T.J., **Bergey, C. M.**, Mann, J. J., and Phillips-Conroy, J. E. (Submitted). Species-specific male mating strategies match CSF monoamine metabolite levels in wild hybrid baboons.

Chiou, K. L.* and **Bergey, C. M.*** (Submitted). FecalSeq: methylation-based enrichment for noninvasive population genomics from feces. ***Contributed equally.**

2016 **Bergey, C. M.**, Phillips-Conroy, J. E., Disotell, T. R., and Jolly, C. J. (2016). Dopamine pathway is highly diverged in primate species that differ markedly in social behavior. *Proceedings of the National Academy of Sciences*, 113(22):6178–6181

2015 Burrell, A. S., Disotell, T. R., and **Bergey, C. M.** (2015). The use of museum specimens with high-throughput DNA sequencers. *Journal of Human Evolution*, 79:35–44

2014 Pozzi, L., **Bergey, C. M.**, and Burrell, A. S. (2014). The use (and misuse) of phylogenetic trees in comparative behavioral analyses. *International Journal of Primatology*, 35(1):32–54

2013 **Bergey, C. M.**, Watkins, A. M., and Arora, P. S. (2013). HippDB: a database of readily targeted helical protein-protein interactions. *Bioinformatics*, 29(21):2806–2807

Bergey, C. M., Pozzi, L., Disotell, T. R., and Burrell, A. S. (2013). A new method for genome-wide marker development and genotyping holds great promise for molecular primatology. *International Journal of Primatology*, 34(2):303–314

2012 Pickett, S. B., **Bergey, C. M.**, and Di Fiore, A. (2012). A metagenomic study of primate insect diet diversity. *American Journal of Primatology*, 74(7):622–631

2011 **Bergey, C. M.** (2011). AluHunter: a database of potentially polymorphic Alu insertions for use in primate phylogeny and population genetics. *Bioinformatics*, 27(20):2924–2925

Jolly, C. J., Burrell, A. S., Phillips-Conroy, J. E., **Bergey, C. M.**, and Rogers, J. (2011). Kinda baboons (*Papio kindae*) and grayfoot chacma baboons (*P. ursinus griseipes*) hybridize in the Kafue river valley, Zambia. *American Journal of Primatology*, 73(3):291–303

2010 Hodgson, J. A., **Bergey, C. M.**, and Disotell, T. R. (2010). Neandertal genome: the ins and outs of African genetic diversity. *Current Biology*, 20(12):R517–519

Abstracts

2016 **Bergey, C. M.**, Phillips-Conroy, J. E., Disotell, T. R., and Jolly, C. J. (2016). Neurophysiological differences between hamadryas and anubis baboons are maintained by natural selection. In *American Journal of Physical Anthropology*, volume 159, pages 92–93

2015 **Bergey, C. M.** (2015). An efficient novel technique for genotyping MHC-DRB exon 2 in primates. (Abstract). *American Journal of Physical Anthropology*, 156(Suppl. 60):84

Burrell, A. S., Disotell, T. R., Haueisen, S., and **Bergey, C. M.** (2015). High-throughput restriction site associated DNA sequencing (RAD-Seq) for genomic studies of primates using museum specimens. (Abstract). *American Journal of Physical Anthropology*, 156(Suppl. 60):96

Haueisen, S., **Bergey, C. M.**, Disotell, T. R., and Burrell, A. S. (2015). The impact of past climate cycles on the paleodemography of East African ungulates as inferred from genomic RAD-Seq data. (Abstract). *American Journal of Physical Anthropology*, 156(Suppl. 60):161

2014 **Bergey, C. M.**, Phillips-Conroy, J. E., Disotell, T. R., and Jolly, C. J. (2014). Hybrid zone genomics: The structure of a baboon contact zone inferred from RAD tags. (Abstract). *American Journal of Physical Anthropology*, 153(Suppl. 58):76–77

Matthews, L. C., Le, M. D., López, E. H., **Bergey, C. M.**, Sterling, E. J., and Blair, M. E. (2014). Species identification and evolutionary history of slow lorises (genus *Nycticebus*) as inferred from nuclear introns. (Abstract). *American Journal of Physical Anthropology*, 153(Suppl. 58):178–179

2013 Burrell, A. S., Jolly, C. J., **Bergey, C. M.**, Phillips-Conroy, J. E., Rogers, J., and Disotell, T. R. (2013). Kinda baboons in phylogenetic and paleogeographic perspective. (Abstract). *American Journal of Physical Anthropology*, 150(Suppl. 56):74

2012 **Bergey, C. M.** and Raaum, R. L. (2012). A test of cross-species exome sequencing in the rhesus macaque (*Macaca mulatta*). (Abstract). *American Journal of Physical Anthropology*, 147(Suppl. 54):97

2010 **Bergey, C. M.** (2010). AluHunter: A new computer program for large-scale identification of Alu-elements for use in primate phylogeny. (Abstract). *American Journal of Physical Anthropology*, 141(Suppl. 50):66

Canedo, A. P., Burrell, A. S., Jagoda, E., **Bergey, C. M.**, Tosi, A. J., and Disotell, T. R. (2010). Phylogenetic relationships of the mangabeys inferred from analyses of multiple independent loci. (Abstract). *American Journal of Physical Anthropology*, 141(Suppl. 50):76

Jolly, C. J., Phillips-Conroy, J. E., Burrell, A. S., **Bergey, C. M.**, Larney, E., and Disotell, T. R. (2010). The circle is unbroken: hybridization occurs between Kinda and chacma baboons in the Kafue Valley, Zambia. (Abstract). *American Journal of Physical Anthropology*, 141(Suppl. 50):136

2009 **Bergey, C. M.**, Jolly, C. J., Phillips-Conroy, J. E., Burrell, A. S., and Disotell, T. R. (2009). Mitochondrial population structure of a baboon contact zone. (Abstract). *American Journal of Physical Anthropology*, Suppl. 48(138):89

2008 **Bergey, C. M.** and Patel, E. R. (2008). A Preliminary Vocal Repertoire of the Greater Bamboo Lemur (*Prolemur simus*): Classification and Contexts. *Nexus*, 1(1):69–84

Unpublished Conference Presentations

2016 **Bergey, C. M.**, Phillips-Conroy, J. E., Disotell, T. R., and Jolly, C. J. Serotonin-related genes and pathways display outlier patterns of introgression in a baboon hybrid zone. XXVI Congress of the International Primatological Society. Chicago, IL.

Bergey, C. M. and Chiou, K. L. An inexpensive methylation-based enrichment methods enables genomic-scale population-level genotypes of animals from their feces. XXVI Congress of the International Primatological Society. Chicago, IL.

Burrell, A. S., Disotell, T. R., and **Bergey, C. M.**. Patterns of past admixture in *Papio* inferred from RAD-seq data. XXVI Congress of the International Primatological Society. Chicago, IL.

2015	Burrell, A. S., Disotell, T. R., Haueisen, S., and **Bergey, C. M.** Using museum specimens for genomic analyses of primates. Nor'Eastern Primate Ecology, Evolution, and Biology Group. New Brunswik, NJ.
2014	Burrell, A. S., Disotell, T. R., Jolly, C. J., and **Bergey C. M.** A phylogenomic approach to understanding the diversification of common baboons. XXV Congress of the International Primatological Society. Hanoi, Vietnam.

Current and Completed Grants

NSF Senior Research Award for "The evolution of the anthropoid genome" (BCS1640515 / BCS1640500) - co-PI - (2016).

Lewis and Clark Fund for Exploration and Field Research Grant for study of tsetse fly population genomics in Zambia - $4,400 (2015).

Wenner-Gren Foundation Dissertation Fieldwork Grant for study of introgression and demography of baboons in Awash, Ethiopia - $7,996 (2013).

NSF Doctoral Dissertation Improvement Grant for study of MHC introgression across the baboon hybrid zone in Awash, Ethiopia - $31,226 (2013).

NYU Sokol Travel / Research Award to survey and sample primates in a proposed national park in the TL2 region of the Democratic Republic of the Congo - $3,000 (2012).

Explorer's Club Exploration Fund Grant for travel to trap and sample Kinda baboons (*Papio kindae*) in Kafue National Park, Zambia - $2,500 (2011).

NSF GRFP Travel Grant for Zambia baboon trip (above) - $1,000 (2011).

NSF Graduate Research Fellowship (2009-2012).

NYU MacCracken Fellowship (2012-2015).

NYU Dean's Undergraduate Research Fund Grant for travel to meeting of the American Association of Physical Anthropologists to present hybrid baboon research - $595 (2008).

NYU Dean's Undergraduate Research Fund Grant for expenses relating to acoustic study of greater bamboo lemurs (*Prolemur simus*) in Madagascar - $2,000 (2008).

NSF Research Experience for Undergraduates Grant for population genetic study of blue monkeys (*Cercopithecus mitis stuhlmanni*) - $3,000 (2007).

NYU Dean's Undergraduate Research Fund Grant for blue monkey study (above) - $975 (2007).

Pending Grants

NSF Senior Research Award Application for "The evolutionary mechanics of hybridization across a primate radiation: a case study of the Cercopithecini" - co-PI (2016).

Peer Reviews Completed

Eighteen peer reviews contributed for the following journals: *American Journal of Physical Anthropology*, *American Journal of Primatology*, Axios Review, *Bioinformatics*, *Folia Primatologica*, *Frontiers in Zoology*, and *PLOS ONE*.

Teaching Experience

2014-2015: **Curriculum developer** for "BridgeUp: STEM" at the American Museum of Natural History. Two courses for female low-income New York City youth to explore computer science and bioinformatics using the museum's scientific datasets.

2009-2012: **Curriculum developer, Instructor** for "Harlem Childrens Society Bioinformatics Class." Summer-long course on bioinformatics computer programming for New York City public high school students.

Spring 2012: **Course assistant** for "Topical Seminar: Phylogenetic Methods." (Prof. Todd Disotell) Department of Anthropology, New York University.

Fall 2011: **Teaching assistant** for "Human Evolution." (Prof. Susan Antón) Department of Anthropology, New York University.

Field Experience

Summer 2015: Mosquito (*Anopheles gambiae sensu lato*) sampling for whole genome sequencing. Ssese Islands, Uganda.

Summer 2012: Primate surveying and sampling in a proposed national park. TL2 region of the Democratic Republic of Congo. (Prof. Kate Detwiler, Florida Atlantic University)

Summer 2011: Biological sampling of the Kinda baboon. Kafue National Park, Zambia. (Prof. Clifford Jolly, NYU; and Prof. Jane Philips-Conroy, Washington University in St. Louis)

Fall 2007 & Summer 2008: Researched acoustic communication of the critically endangered greater bamboo lemur. Ranomafana National Park, Madagascar. (Dr. Erik Patel, Duke Lemur Center)

Service

Citizens Climate Lobby, State College and New York Chapter, 2013 to present

Meet with members of Congress in New York and Washington DC to discuss sustainability and advocate for policy of carbon fee-and-dividend.

Manhattan Comp. Night and Day High School ESL Volunteer, 2006 to 2013

Taught immigrant students English, science, mathematics, and TOEFL/SAT prep.

Harlem Childrens Society Bioinformatics Class, 2009 to 2012

Developed and taught a summer-long course on bioinformatics computer programming to groups of New York City public high school students.

Last updated: February 17, 2017