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EDUCATION

- 2015—2020 Ph.D., Anthropological Sciences, Stony Brook University
2013—2015 M.A., Biological Anthropology, New York University
2008—2012 B.A., Biological Anthropology, New York University

PROFESSIONAL APPOINTMENTS

- 2020— Postdoctoral Research Fellow, Department of Psychology, University of Michigan
2015 Full Instructor, Department of Anthropology, Fordham College at Lincoln Center

GRANTS & AWARDS

- 2020— National Science Foundation Postdoctoral Research Fellowship in Biology, *Integrative Research Investigating the Rules of Life Governing Interactions Between Genomes, Environment and Phenotypes* (\$207,000)
2015—2020 AGEP-T FRAME Diversity Fellowship, Stony Brook University
2015—2020 Dr. W. Burghardt Turner Diversity Fellowship, Stony Brook University (\$50,000)
2019 Best Podium Talk (*runner up*), Northeastern Evolutionary Primatologists Meeting
2018 Turner Fellowship Summer Research Grant, Stony Brook University (\$4,400)
2018 IDPAS Research Grant, Stony Brook University (\$497)
2017 Feasibility Grant, NIH Clinical and Translational Science Award, Primate Signature Program at Wake Forest University (\$7,460)
2017 Turner Fellowship Academic Year Research Grant, Stony Brook University (\$2,800)
2017 AGEP-T FRAME Research Grant, Stony Brook University (\$3,500)
2017 Turner Fellowship Summer Research Grant, Stony Brook University (\$5,000)
2016 Grants-In-Aid of Research, Sigma Xi (\$1,000)
2016 Turner Fellowship Summer Research Grant, Stony Brook University (\$3,500)

PEER-REVIEWED PUBLICATIONS

- In review* Baniel, A., **Petrullo, L.**, Mercer, A., Reitsema, L., Sams, S., Beehner, J.C., Bergman, T.J., Snyder-Mackler, N., Lu, A. Maternal effects on early-life gut microbiome maturation in a wild nonhuman primate. *Current Biology*.
[doi:10.1101/2021.11.06.467515](https://doi.org/10.1101/2021.11.06.467515)
- In review* Sabol, A., Close, W.L., **Petrullo, L.**, Lambert, C.T., Keane, B., Solomon, N.G., Schloss, P.D., Dantzer, B. Sociality does not predict oral microbiome composition or diversity in free-living prairie voles. *Animal Behavior*.
- Full review* **Petrullo, L.**, Boutin, S., Lane, J.E., McAdam, A.G., Dantzer, B. Avoiding costly errors underlies adaptive plasticity in a wild mammal. *Science*.
- Accepted* **Petrullo, L.**, Baniel, A., Jorgensen, M., Sams, S., Snyder-Mackler, N., Lu, A. Early life gut microbiome dynamics mediate maternal effects on infant growth in vervet monkeys. *iScience*. [doi:10.1101/2021.05.11.443657](https://doi.org/10.1101/2021.05.11.443657)
- Accepted* **Petrullo, L.**, Ren, T., Wu, M., Boonstra, R., Palme, R., Boutin S., McAdam, A.G., Dantzer, B. Glucocorticoids coordinate changes in gut microbiome composition in wild North American red squirrels. *Scientific Reports*. [doi:10.32942/osf.io/c4gjs](https://doi.org/10.32942/osf.io/c4gjs)

- 2021 Baniel, A., Amato K.R., Beehner, J.C., Bergman, T.J., Mercer, A., Perlman, R., **Petrullo, L.**, Reitsema, L., Sams, S., Lu, A., Snyder-Mackler, N. Seasonal shifts in the gut microbiome suggest plastic responses to host dietary needs in wild gelada monkeys. *Microbiome*. [doi:10.1101/2020.07.07.192336](https://doi.org/10.1101/2020.07.07.192336)
- 2019 **Petrullo, L.**, Hinde, K., Lu, A. Steroid hormone concentrations in milk predict sex-specific offspring growth in a non-human primate. *American Journal of Human Biology*, e23315. [doi:10.1002/ajhb.23315](https://doi.org/10.1002/ajhb.23315)
- 2019 Lu, A., **Petrullo, L.**, Carrera, S., Feder, J., Schneider-Crease, I., Snyder-Mackler, N. Developmental responses to early life adversity: evolutionary and mechanistic perspectives. *Evolutionary Anthropology*, 28(5), 249-266. [doi:10.1002/evan.21791](https://doi.org/10.1002/evan.21791)
- 2019 Williams, S.A., Spear, J.K., **Petrullo, L.**, Goldstein, D.M., Lee, A.B., Peterson, A.L., Miano, D.A., Kaczmarek, E., Shattuck, M.R. Increased variation in numbers of presacral vertebrae in suspensory animals. *Nature Ecology and Evolution*, 3(6), 949-956. [doi:10.1038/s41559-019-0894-2](https://doi.org/10.1038/s41559-019-0894-2)
- 2019 **Petrullo, L.**, Jorgensen, M., Snyder-Mackler, N., Lu, A. Composition and stability of the vervet monkey milk microbiome. *American Journal of Primatology*, e22982. [doi:10.1002/ajp.22982](https://doi.org/10.1002/ajp.22982)
- 2019 **Petrullo, L.**, Lu, A. Natural variation in fetal cortisol exposure predicts neonatal body mass in captive vervet monkeys (*Chlorocebus aethiops*). *American Journal of Primatology*, 81(1), e22943. [doi:10.1002/ajp.22943](https://doi.org/10.1002/ajp.22943)
- 2017 Mandalaywala, T.M., **Petrullo, L.A.**, Parker, K.J., Maestriperi, D., Higham, J.P. Vigilance for threat in infancy modifies effects of early life adversity on cortisol/salivary alpha- amylase asymmetry in juvenile rhesus macaques. *Developmental Psychobiology*, 59(8), 1031- 1038. [doi:10.1002/dev.21572](https://doi.org/10.1002/dev.21572)
- 2016 **Petrullo, L.A.**, Mandalaywala, T. M., Parker, K. J., Maestriperi, D., & Higham, J. P. Effects of early life adversity on cortisol/salivary alpha-amylase symmetry in free-ranging juvenile rhesus macaques. *Hormones and Behavior*, 86(1), 78-84. [doi:10.1016/j.yhbeh.2016.05.004](https://doi.org/10.1016/j.yhbeh.2016.05.004)

OTHER PUBLICATIONS

- 2021 **Petrullo, L.**, Baniel, A., Sweeny A. R. Establishing a virtual network in mammalian microbiome research. *Evolutionary Anthropology*, [doi:10.1002/evan.21889](https://doi.org/10.1002/evan.21889)

PRESENTATIONS

- 2022 **Petrullo, L.**, Boutin, S., Lane, J. E., McAdam, A.G., Dantzer, B. Costs of environmental mismatching in a small mammal. *Society for Integrative and Comparative Biology*.
- 2021 Baniel, A., Beehner, J.C., Bergman, T.J., Mercer, A., **Petrullo, L.**, Reitsema, L., Sams, S., Snyder-Mackler, N., Lu, A. Maturation and stabilization of the infant gut microbiome in wild geladas. *Animal Behavior*.
- 2021 **Petrullo, L.**, Ren, T., Wu, M., Boonstra, R., Palme, R., Boutin S., McAdam, A.G., Dantzer, B. Understanding the link between glucocorticoids and gut microbiome diversity in wild red squirrels. *Animal Behavior*.
- 2020 **Petrullo, L.**, Jorgensen, M., Snyder-Mackler, N., & Lu, A. Postnatal vertical transmission is associated with maternal parity and offspring growth in captive vervet monkeys (*Chlorocebus aethiops sabaeus*). *American Journal of Physical Anthropology* 171, S69:216.
- 2020 Baniel, A., Beehner, J. C., Bergman, T. J., Mercer, A., **Petrullo, L.**, Reitsema, L., Sams, S., Snyder-Mackler, N., Lu, A. Maturation and stabilization of the infant gut microbiome in wild geladas. *American Journal of Physical Anthropology*, 171, S69:17.

- 2019 **Petrullo, L.**, Snyder-Mackler, N., Lu, A. Maturation of the vervet monkey infant gut microbiome. *Northeastern Evolutionary Primatologists*, University of Massachusetts-Amherst, Amherst, NY.
- 2018 **Petrullo, L.**, Hinde, K., Lu, A. Steroid hormone concentrations in milk predict postnatal infant growth in rhesus macaques (*Macaca mulatta*). *American Journal of Physical Anthropology*, 165, 206.
- 2018 **Petrullo, L.**, Snyder-Mackler, N., Lu, A. Investigating vervet monkey milk microbiome (*Chlorocebus aethiops sabaues*). *Northeastern Evolutionary Primatologists*, Canisius College, Buffalo, NY.
- 2016 Shattuck, M.R., **Petrullo, L.**, Peterson, A., Lee, A.B., Kaczmarek, E., Goldstein, D.M., Williams, S.A. Pronograde, not fast speed specifically, acts as a constraint on vertebral formula in mammals. *American Journal of Physical Anthropology*, S64, 357.
- 2016 Mandalaywala, T.M., **Petrullo, L.**, Parker, K.J., Maestriperi, D., Higham, J.P. Vigilance for threat in infancy modifies effects of early life adversity on salivary alpha-amylase/cortisol asymmetry in juvenile rhesus macaques. *IPS/ASP*. Chicago, IL, USA.
- 2015 **Petrullo, L.**, Mandalaywala, T.M., Maestriperi, D., Higham, J.P. Effects of early life experience on cortisol/salivary alpha-amylase symmetry in free-ranging juvenile rhesus monkeys. *American Journal of Physical Anthropology*, S60, 252.
- 2014 **Petrullo, L.**, Goldstein, D.M., Lee, A.B., Williams, S.A. Suspension, brachiation, and the evolution of short torsos in atelines and hominoids. *American Journal of Physical Anthropology*, S58, 207.
- 2013 **Petrullo, L.**, Shattuck, M.R., Williams, S.A. Extensive convergence between giant panda and hominoid vertebral formulae. *American Journal of Physical Anthropology*, S56, 221.

INVITED TALKS & SEMINARS

- 2023 “Biology at Birth” Symposium, Society for Integrative and Comparative Biology.
- 2022 Department of Ecology and Evolutionary Biology, University of Arizona.
- 2022 Department of Biology, University of Massachusetts Amherst.
- 2022 Department of Anthropology/Huck Institutes of Life Sciences, Penn State University.
- 2020 Long-Term Animal Research Seminar Series, Duke University.

TEACHING

Courses

- 2016—2019 How We Eat, Teaching Assistant, Stony Brook University
- 2018 Human Anatomy, Teaching Assistant, Stony Brook University
- 2018 Research Skills in the Biological Sciences, *Instructor*, Stony Brook University
- 2017 Hormones and Behavior, Teaching Assistant, Stony Brook University
- 2016 Archaeology of Human Dispersals, Teaching Assistant, Stony Brook University
- 2015 Controversies in Human Biology, Teaching Assistant, Stony Brook University
- 2015 Introduction to Biological Anthropology, *Full Instructor*, Fordham College

Guest Lectures

- 2021 “*Evolutionary hypotheses and proximate mechanisms of developmental plasticity*”, Evolution & Behavior, University of Michigan.
- 2018 “*The autonomic nervous system*”, Human Anatomy, Stony Brook University.
- 2017 “*Microbial contributions to early life nutrition*”, How We Eat, Stony Brook University.
- 2017 “*Endocrinology of stress*”, Hormones and Behavior, Stony Brook University.
- 2016 “*Effects of environmental toxins on neuroendocrine function*”, How We Eat, Stony Brook University.

Certificates & workshops

- 2021 Postdoctoral Short Course on College Teaching in Science and Engineering, *Certificate*, Center for Research on Learning and Teaching, University of Michigan
- 2020 Developing A Teaching Philosophy, Center for Research on Learning and Teaching, University of Michigan
- 2020 Teaching for Accessibility, Center for Research on Learning and Teaching, University of Michigan

MENTORSHIP

(*denotes program with a focus on advancing Justice, Equity, Diversity & Inclusion in STEM)

- 2021 Mentor, *Virtual Mentoring Program*, Animal Behavior Society (5 students)
- 2020—2021 *Mentor, *1,000 Girls 1,000 Futures*, New York Academy of Sciences (12 students)
- 2017—2020 Graduate Student Advisor, Lu Lab, Stony Brook University
- 2018 *Mentor, Community of Student Mentors Program, Center for Inclusive Education, Stony Brook University (2 students)
- 2017 *Mentor, Women in Science and Engineering, Stony Brook University (1 student)
- 2016—2018 *Mentor, Educational Opportunity Program-Advancement on Individual Merit, Center for Inclusive Education, Stony Brook University (2 students)
- 2015—2016 *Tutor, Educational Opportunity Program/Advancement on Individual Merit, Center for Inclusive Education, Stony Brook University (2 students)

OUTREACH

(*denotes program with a focus on advancing Justice, Equity, Diversity & Inclusion in STEM)

- 2021— Science Communication Fellow, Museum of Natural History, University of Michigan
- 2021 *Panelist, “Life of a (first-generation) Doctor”, STAR Scholars, University of Michigan
- 2021 Twitter Takeover, Animal Behavior Society.
- 2020 “Ask a Scientist” Q & A, Presbyterian Middle School (6th grade), Houston, TX; Logan Township Elementary School (5th grade) Logan Township, NJ
- 2018—2020 *Bookworm Biology, Central Islip Public Library, Central Islip, NY
- 2016 Contributing Author/Illustrator, “Guide to New York Mammals: A Coloring Book”
- 2015-2016 Shutterbug Science, Stony Brook, NY

DEPARTMENTAL & SCIENTIFIC SERVICE

- 2018— Journal Reviewer: *Molecular Ecology*, *Gut Microbes*, *Animal Microbiome*, *Ecology & Evolution*, *Biology*, *Mammal Review*, *American Journal of Primatology*, *Frontiers in Microbiology*, *Developmental Psychobiology*, *Primates*
- 2021— Peer coach, Weaving the Future of Animal Behavior, Animal Behavior Society
- 2020— Founder, [Animal Microbiome Research Group](#) (250+ members, 2 annual meetings)
- 2020—2021 Co-organizer, Early Life Adversity Research Group (25+ members, 1 annual meeting)
- 2016—2019 Vice President, *Behavioral Ecology Group (BEG)*, Stony Brook University
- 2015—2017 Student Publications Manager, IDPAS, Stony Brook University

PROFESSIONAL AFFILIATIONS

New York Academy of Sciences, Society for Integrative and Comparative Biology, American Society of Mammalogists, Animal Behavior Society, American Association of Biological Anthropologists, Sigma Xi Scientific Research Society