

## Margaret K. Corley

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### EDUCATION

Ph.D., 2017, University of Pennsylvania, Philadelphia, PA. Anthropology. GPA: 3.99.

Dissertation: “Leaving home: demographic, endocrine, and behavioral correlates of dispersal in monogamous owl monkeys (*Aotus azarae*) of Argentina”

M.S., 2010, Queens College, The City University of New York. Flushing, NY, USA. Biology. GPA: 4.0

Thesis: “Queen mating strategies in *Lasius niger* ants: Levels of polyandry co-vary with the environment”

B.A., 2005, Boston University, Boston, MA, USA. Summa Cum Laude.

Major - Environmental Science: Ecological Sciences, Minor - Archaeology

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### RESEARCH EXPERIENCE

**Aug 2022-present:** Postdoctoral Associate, Yale University (Department of Ecology and Evolutionary Biology). As part of an NIH-funded project headed by Dr. A. Caccone and colleagues that is examining the genomics of invasive *Aedes albopictus* mosquitos, I am extracting DNA from *A. albopictus* populations from around the world and using a recently developed single nucleotide polymorphism (SNP) chip for this species to reconstruct their evolutionary history, detect the origin of new invasions, and understand the genetic basis of diapause, a crucial life-history trait underpinning ecological adaptation across climatic gradients. I am also training and mentoring undergraduate students who are working on developing their senior theses related to this project.

**Sep 2019-May 2022:** Collaboration with Drs. E. Fernandez-Duque and A. Caccone at Yale’s Center for Genetic Analysis of Biodiversity to characterize patterns of relatedness and gene flow in a population of Azara’s owl monkeys (*Aotus azarae*) for an NSF-funded project. My role was to develop a new panel of microsatellite markers, optimize fecal extraction and genotyping methods, and utilize STR genotype and mtDNA haplotype data in population genetic and relatedness analyses. I also trained undergraduate students in genetic laboratory techniques and analysis and supervised two students’ senior thesis projects.

**Jun 2017-May 2022:** Postdoctoral Research Associate, Yale University (Department of Anthropology). Collaborated with Dr. C. Valeggia and the Yale Reproductive Ecology Research Group on several laboratory-based research projects that address the endocrinology of life history transitions in human and non-human primates. I was also responsible for cleaning and compiling existing data, analyzing hormonal, anthropometric, and health data, and mentoring and training graduate and undergraduate students in laboratory protocols and analyses.

**Jan 2015-Aug 2016:** Visiting Assistant in Research, Yale University (Department of Anthropology). I conducted research for my PhD dissertation during which I processed and assayed owl monkey fecal samples for steroid hormones in the Yale Reproductive Ecology Lab (YREL) under the supervision of Dr. C. Valeggia and Dr. R. Bribiescas.

**Jun-Aug 2011, May-Aug 2012, May-Nov 2013, May-Nov 2014, May-Jun 2015, Jun-Jul 2018:**

Field work with the Owl Monkey Project in Formosa, Argentina.

I gathered behavioral and demographic data on owl monkeys (*A. azarae*), while working as a

team to capture and fit individuals with radio-collars, collect and preserve fecal samples for hormonal and genetic analyses, and conduct playback experiments. Each year I helped train and supervise groups of 4-7 undergraduate students as they carried out field projects.

**Jan-May 2015:** Yale Institute for Biospheric Studies, Molecular Systematics and Conservation Genetics Center (YIBS-MSCG).

Under the supervision of Dr. A. Caccone I optimized techniques for extracting DNA from owl monkey fecal samples and utilized gel electrophoresis to determine genetic sex of individuals.

**2011-2014:** Reproductive Ecology Lab, University of Pennsylvania.

Under the supervision of Dr. C. Valeggia, I learned techniques for analyzing various biomarkers using ELISA, and validated methods for extracting hormones from primate fecal material.

**Jan 2008-Dec 2009:** Laboratory Research at Queens College, CUNY.

While conducting research for my Master's thesis in the laboratory of Dr. E. Fjerdingstad, I learned techniques for DNA extraction, PCR, analysis of STR and mitochondrial genetic data, statistical analysis, and scientific writing.

**Summer 2009:** Field Biology Studies: Conservation and Management of Biological Diversity in Ethiopia (BIO 680.6), Queens College, CUNY.

Field activities included behavioral observations of primates and birds, vegetation mapping, and identifying a conservation issue specific to Awash National Park and documenting this issue by interviewing guards, guides and local residents.

**Aug-Dec 2004:** Tropical Ecology Program, Universidad San Francisco de Quito, Ecuador.

Field activities included completing independent research projects in three environments: tropical montane ecosystem, tropical coastal ecosystem, tropical rainforest ecosystem (Tiputini Biodiversity Station).

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## OTHER RELEVANT PROFESSIONAL EXPERIENCE

**Jun 2008-Jul 2010:** College Laboratory Technician, Queens College CUNY, Biology Department.

I managed the laboratories used for the Biology Department's lab courses (e.g. microbiology, cell and molecular biology, etc.). Duties included maintaining organization of the laboratories and preparation spaces, working with professors and other instructors to plan laboratory exercises, preparing materials (solutions, bacterial cultures, and media), ordering supplies, setting up equipment, and ensuring proper laboratory practices and safety in the teaching labs.

**Apr 2008-Aug 2008:** Adjunct College Laboratory Technician, LaGuardia Community College, Long Island City, NY. Natural and Applied Sciences Department.

Duties included preparing solutions and other materials for chemistry labs, ensuring proper laboratory practices and safety, restocking solutions and supplies, disposing of hazardous chemicals, and organizing equipment.

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## AWARDS/SCHOLARSHIPS

NSF International Research Experiences for Students (IRES) grant (Co-PI) – 2020-2023

Leakey Foundation general grant (\$8442) – August 2020-January 2022

Yale Postdoctoral Association Travel Grant (\$1000) – April 2020

Animal Behavior Society Graduate Student Travel Grant (\$500) – August 2016

NSF Doctoral Dissertation Improvement Grant (\$8000, direct costs) – August 2015-Dec 2016  
 SAS Dissertation Completion Fellowship, University of Pennsylvania (\$25900) – Sep 2015-Jun 2016  
 James F. Nacey Fellowship (\$3000) – May 2014-Dec 2015  
 Leakey Foundation general grant (\$11,620) – Jan 2014-Dec 2015  
 American Society of Primatologists (\$1,500) – Sep 2013-Apr 2014  
 Penn Museum Student Summer Field Research Grant (\$600) – May-Aug 2013  
 Latin American and Latino Studies Travel Grant (\$100) – May-Aug 2012  
 Brody-Foley funds for Summer Field Research – (\$2,099) – May-Aug 2012  
 Penn Museum Student Summer Field Research Grant (\$400) – May-Aug 2012  
 Benjamin Franklin Fellowship, University of Pennsylvania – 2011-2015  
 Latin American and Latino Studies Travel Grant (\$200) – Jun-Aug 2011  
 Penn Dept. of Anthropology Summer Field Funding (\$2,450) – Jun-Aug 2011  
 Penn Museum Student Summer Field Research Grant (\$800) – Jun-Aug 2011  
 Moore Family Memorial Fellowship, University of Pennsylvania – 2010-2011  
 Member of Golden Key International Honour Society, Queens College CUNY Chapter  
 Segal AmeriCorps Education Award, Corporation for National and Community Service – 2007

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## PEER-REVIEWED PUBLICATIONS

- Corley, M.** & Fernandez-Duque, E. (2023). Dispersal: a critical life-history stage influencing populations, social dynamics, and individual fitness. In *Owl Monkeys: Evolution, Behavioral Ecology and Conservation*. E. Fernandez-Duque (Ed.). Springer.
- Corley, M.**, Spence-Aizenberg, A., Valeggia, C. & Fernandez-Duque, E. (2023). Reproductive ecology and behavioral endocrinology of owl monkeys. In *Owl Monkeys: Evolution, Behavioral Ecology and Conservation*. E. Fernandez-Duque (Ed.). Springer.
- Perea-Rodriguez, J. P., **Corley, M.**, & Fernandez-Duque, E. (2022). Thermo-energetic challenges and daytime behavioural patterns of a wild cathemeral mammal. *Animal Behaviour*, 185: 163-173.
- Rivara, A. C., **M. Corley**, C. Choy, R. L. Duckham, A. Pomer, M.S. Reupena, ... & N.L. Hawley. (2022). C-reactive protein in adult Samoans: Population variation and physiological correlates. *American Journal of Human Biology*, 34(3), e23646.
- Corley, M.**, Spence-Aizenberg, A. & Fernandez-Duque, E. (in review). The social and defensive function of olfactory behaviors in a pair-living sexually monogamous primate. *Animal Behaviour*
- Corley, M.**, Fernandez-Duque, E., Perea-Rodriguez, J. P. & Valeggia, C. (2021). Associations between fecal cortisol and biparental care in a pair-living primate. *American Journal of Physical Anthropology*, 176(2): 295-307.
- Chaney, C., **Corley, M.**, Valeggia, C. (2021). Comparison of two human infant urine collection methods for measuring Estrone-3-glucuronide (E1G). *American Journal of Physical Anthropology*, 175(3), 712-717.
- Corley, M.**, Valeggia, C. & Fernandez-Duque, E. (2017). Hormonal correlates of development and natal dispersal in wild female owl monkeys (*Aotus azarae*) of Argentina. *Hormones and Behavior*, 96:42-51.
- Corley, M.**, Xia, S. & Fernandez-Duque, E. (2017). The role of intragroup agonism in parent-offspring relationships and natal dispersal in monogamous owl monkeys (*Aotus azarae*) of Argentina. *American Journal of Primatology*, 79:11. DOI: 10.1002/ajp.22712
- Corley, M** and Fjerdingstad, E.J. (2011). Mating strategies of queens in *Lasius niger* ants – is

environmental type important? *Behavioral Ecology and Sociobiology* 65: 889-897.

## NON-PEER REVIEWED PUBLICATIONS

- Garcia de La Chica, A., **Corley, M.** & Fernandez-Duque, E. (2018). Alloparental behavior (maternal, paternal, alloparenting). In *The International Encyclopedia of Biological Anthropology*. W. Trevathan (ed.). John Wiley and Sons, Inc.
- Corley, M.** & Fernandez-Duque, E. (2017) Aotinae. In: *The International Encyclopedia of Primatology*, Fuentes, A. (ed.). Wiley & Blackwell.
- Garcia de La Chica, A., **Corley, M.** & Fernandez-Duque, E. (2017) Alloparental Care. In: *The International Encyclopedia of Primatology*, A. Fuentes (ed.). Wiley & Blackwell.
- Corley, M.** and Fernandez-Duque, E. (2016). Brumback's Night Monkey (*Aotus brumbacki*). In *All the World's Primates*. Rowe, N. & M. Myers (eds.). Charlestown, RI: Pogonias Press.
- Corley, M.** and Fernandez-Duque, E. (2016). Gray-legged Night Monkey (*Aotus griseimembra*). In *All the World's Primates*. Rowe, N. & M. Myers (eds.). Charlestown, RI: Pogonias Press.
- Corley, M.** and Fernandez-Duque, E. (2016). Lemurine Night Monkey (*Aotus lemurinus*). In *All the World's Primates*. Rowe, N. & M. Myers (eds.). Charlestown, RI: Pogonias Press.
- Perea-Rodriguez, J.P., Fernandez-Duque, E., **Corley, M.**, & Spence-Aizenberg, A. (2016). An international workshop to launch PAIR, a program on Aotus integrated research. *Evolutionary Anthropology: Issues, News, and Reviews* 25(4): 183-183.
- Fernandez-Duque, E., **Corley, M.** & Spence-Aizenberg, A. (2013). The Aotidae. In *The Handbook of the Mammals of the World, Volume 3 (Primates)*, Mittermeier, R. A., Rylands, A. B. & Wilson, E. (eds). Barcelona, Spain: Lynx Ediciones.

## PRESENTATIONS AT PROFESSIONAL MEETINGS

- Harries, V., **M. Corley**, G. Aronsen, R.G. Bribiescas. Impact of high temperatures on leptin enzyme-linked immunoassay (ELISA) results. 92nd Annual Meeting of American Association of Biological Anthropologists. Reno, NV, April, 2023.
- Joslin, E., E. Fernandez-Duque, **M. Corley**, and A. García de la Chica. Foraging Behavior of Black-and-gold howler monkeys (*Alouatta caraya*) in the Gran Chaco in Northern Argentina: A Preliminary Assessment of Possible Feeding Competition with Azara's night monkeys (*Aotus azarae azarae*). 2022 Meeting of the Northeastern Evolutionary Primatologists. Buffalo, NY, November, 2022.
- Santiago, L.C., J.A. Pertile, K.L. Williams, A. Garcia de la Chica, **M. Corley**, E. Fernandez-Duque. Socio-Sexual Behavior Frequency in the Presence of a Simulated Floater in Wild-Living Azara's Owl Monkeys (*Aotus azarae*) in the Humid Chaco, Argentina. 2022 Meeting of the Northeastern Evolutionary Primatologists. Buffalo, NY, November, 2022.
- Williams, K.L., C.P. Juarez, G.J. Barrios, J. Jojot, P.J. Velazco, S. Jaime, S. Haas, **M. Corley**, E. Fernandez-Duque, A. Garcia de la Chica. Seed-Dispersal Potential of Wild-living *Aotus azarae* in the Humid Chaco Region of Argentina. 2022 Meeting of the Northeastern Evolutionary Primatologists. Buffalo, NY, November, 2022.
- Harries, V., **M. Corley**, R. Bribiescas. Exploring the impact of freezing and thawing on metabolic hormone degradation in human milk samples. 2022 Annual Meeting of the Human Biology Association. Denver, CO, March, 2022.
- Keith, M., **M. Corley**, S. Daniel, D. Glass, S. Lipton, P. Ellison, C. Vallengia, M. Martin. Assessing precision in urinary hormonal sampling design. 2022 Annual Meeting of the Human Biology Association. Denver, CO, March, 2022.

- Corley, M.** & E. Fernandez-Duque. Patterns of allogrooming in a pair-living, sexually monogamous primate, Azara's owl monkey (*Aotus azarae*). *International Primatological Society Congress XXVIII*. Quito, Ecuador. August, 2021.
- Corley, M.**, J. P. Perea-Rodriguez, C. Vaggia, & E. Fernandez-Duque. Hormonal correlates of biparental care in owl monkeys (*Aotus azarae*). *89<sup>th</sup> Annual Meeting of the American Association of Physical Anthropologists*. Los Angeles, CA (Canceled due to COVID-19). April, 2020.
- Corley, M.**, & E. Fernandez-Duque. Dispersal decisions in monogamous owl monkeys (*Aotus azarae*): How ecological and social factors influence the timing of natal dispersal. *88<sup>th</sup> Annual Meeting of the American Association of Physical Anthropologists*. Cleveland, OH. March, 2019.
- Corley, M.** & E. Fernandez-Duque. An evaluation of demographic changes and environmental factors influencing the natal dispersal of owl monkeys (*Aotus azarae*) *Northeastern Evolutionary Primatologists 2018 conference*, Buffalo, NY. September, 2018.
- Corley, M.**, M. Rotundo, V. Davalos, E. Fernandez-Duque. Pre-dispersal prospecting behavior and the solitary life-history stage: Examining neglected aspects of the dispersal process in socially monogamous owl monkeys (*Aotus azarae*). *87<sup>th</sup> Annual Meeting of the American Association of Physical Anthropologists*. Austin, TX. 2018.
- Perea-Rodriguez, J.P., **M. Corley**, & E. Fernandez-Duque. Thermo-Energetic metabolic demands and daytime behavioral patterns of a wild cathemeral monkey. *Northeastern Evolutionary Primatologists 2017 conference*, New Haven, CT. October, 2017.
- Corley, M.** Hormonal correlates of development and natal dispersal in wild female owl monkeys (*Aotus azarae*) of Argentina. *Survive, Then Thrive: Harvard-Yale Conference on Human Evolution*. Cambridge, MA. April 28, 2017.
- Martin, M., B. Beheim, E. Fernandez-Duque, **M. Corley**, J.P. Perea-Rodriguez. Transparency and reproducibility in observational research: lessons from anthropology. *Yale Day of Data*, New Haven, CT. December 2016.
- Corley, M.**, E. Fernandez-Duque, C. Vaggia. Hormonal correlates of maturation in wild owl monkeys: implications for explanations of dispersal. *Northeastern Evolutionary Primatologists 2016 conference*, New York, NY. November, 2016.
- Corley, M.**, E. Fernandez-Duque, C. Vaggia. Hormonal correlates of maturation and dispersal in wild owl monkeys (*Aotus azarae*). *Joint meeting of the International Primatological Society and the American Society of Primatologists*, Chicago, IL. August 2016.
- Carrera, S., **M. Corley**, R. Bribiescas, E. Fernandez-Duque, C. Vaggia. Variation across the day in fecal testosterone levels in wild owl monkeys (*Aotus azarae azarae*) of Formosa, Argentina. *Joint meeting of the International Primatological Society and the American Society of Primatologists*, Chicago, IL. August 2016.
- Corley, M.**, M. Rotundo, V. Dávalos, E. Fernandez-Duque. (2016). Interindividual variation in natal dispersal: What influences dispersal decisions in owl monkeys? *53<sup>rd</sup> Annual Conference of the Animal Behavior Society*, Columbia, MO. Jul 2016. doi: 10.13140/RG.2.2.16871.14242
- Corley, M.**, S. Xia, & E. Fernandez-Duque. Age and sex differences in aggressive behaviors of wild Azara's owl monkey (*Aotus azarae*) in Formosa, Argentina. *38th meeting of the American Society of Primatologists*, Bend, OR. June 2015.
- Corley, M.**, M. Rotundo, V. Davalos, M. Huck, A. Di Fiore, & E. Fernandez-Duque. The single life: Physical injuries may reflect the costs of being a solitary owl monkey. *84th Annual Meeting of the American Association of Physical Anthropologists*, St. Louis, MO. March, 2015.
- Boner, R., García de la Chica, A., van Kuijk, S., **Corley, M.**, DiFiore, A., & Fernandez-Duque, E. Parental Care Dynamics in the Monogamous Owl Monkey (*Aotus azarae*). *37<sup>th</sup> Meeting of the*

*American Society of Primatologists*. September 2014.

- Corley, M.**, A. Spence-Aizenberg, K. Morucci, M. Rotundo, A. Di Fiore, & E. Fernandez-Duque. (2014). The function of scent-marking in territorial owl monkeys. *Program of the 83<sup>rd</sup> Annual Meeting of the American Association of Physical Anthropologists* 153 (S58): 98. doi: 10.1002/ajpa.22487
- Savagian, A., A. Twitchell-Heyne, **M. Corley**, V. Davalos, M. Rotundo, A. Di Fiore, & E. Fernandez-Duque. (2014). Resource utilization and home range overlap in territorial owl monkeys of Argentina. *Program of the 83<sup>rd</sup> Annual Meeting of the American Association of Physical Anthropologists* 153 (S58): 230. doi: 10.1002/ajpa.22487
- Corley, M.**, A. Twitchell-Heyne, K. Morucci, M. Huck, & E. Fernandez-Duque. (2013). Relación entre el tamaño del grupo y la dispersión natal en los monos mirikiná (*Aotus azarae*). Oral presentation at XI Jornadas Nacionales de Asociación de Antropología Biológica Argentina, Buenos Aires, AR, Nov 2013. <http://jnab.maimonides.edu/Programa/index.html>
- Corley, M.**, A. Savagian, M. Rotundo & E. Fernandez-Duque. (2013). Ranging patterns of solitary floater owl monkeys. *Program of the 82<sup>nd</sup> Annual Meeting of the American Association of Physical Anthropologists*, 150(S56), 102-103. doi: 10.1002/ajpa.22244
- Corley, M.** E. J. Fjerdingstad, and S. Singh. (2009). Genetic studies on the evolution of queen mating strategies in the ant *Lasius niger*. Oral presentation at Society for the Study of Evolution, Annual Meeting, Moscow, ID, June 2009. URL: [http://www.uiweb.uidaho.edu/evolution09/docs/evolution09\\_program.pdf](http://www.uiweb.uidaho.edu/evolution09/docs/evolution09_program.pdf)

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## INVITED TALKS

*Primate Social and Mating Systems*. Lecturer, Biological Anthropology course at Southern Connecticut State University. March 2, 2020.

*Reproductive Ecology and Life History Theory*. Lecturer, introductory biology courses at Gateway Community College. Nov 12, 2018 & Nov 18, 2019.

*Hormonal and behavioral correlates of natal dispersal in owl monkeys*. Invited speaker for the Department of Ecology and Evolutionary Biology's Integrative Behavioral Research Group (IBRG) meeting at Princeton University. Apr 21, 2017.

*Primate dispersal*. Guest lecture in Primate Behavior and Ecology (ANTH 300) at Yale University. Nov 29, 2016.

*Sex differences in endocrine development and dispersal in a monogamous primate: Aotus azarae*. Guest lecture in Sexual Selection and Parental Investment (ANTH 801) at Yale University. Nov 17, 2016.

*Doing Field Research in Latin America: Graduate Student Perspectives*. Presented on primatological field research as part of the Penn Latin American and Latino Studies Program's event. October 2012.

Presented primatological field research as part of the Penn Museum's "Museum Scholar Series lunchtime talks", open to the public. Nov 2011 and Mar 2013.

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## TEACHING EXPERIENCE

Courses Taught:

Yale University, Instructor

Hormones and Behavior (ANTH 148) – Fall 2017, Spring 2019

*This is an introductory course that I helped develop with support from Howard Hughes Medical Institute Campus Grant and the Yale Center for Teaching and Learning. It was designed to attract first- and second-year students who have traditionally been underrepresented in STEM and retain them in STEM fields by exposing them to authentic scientific research. In this course, students experience all the steps involved in conducting a scientific research study, from the initial reading of the background literature, to study design, data collection, analysis and interpretation, and finally, dissemination.*

Yale University, Teaching Assistant

Primate Behavior and Ecology (ANTH 300) – Fall 2018

Sex, Love, and Reproduction (ANTH 132) – Spring 2016

University of Pennsylvania, Teaching Assistant

Sex and Human Nature (ANTH 104) – Fall 2011, Spring 2013

Introduction to Human Evolution (ANTH 003) – Fall 2012

Being Human (ANTH 143) – Spring 2012

Queens College CUNY, Teaching Assistant

Microbiology, laboratory – Spring 2010

Principles of Evolutionary Biology – Spring 2009

Introduction to Biology, laboratory – Fall 2008

#### Teaching-related Professional Development:

STEM Education Research Journal Club – Spring 2018-present

Read research articles and participated in discussions on the topic of STEM education research during weekly meetings with members of Yale's STEM Program Evaluation and Research Lab (STEM-PERL).

Yale Scientific Teaching Fellow, Yale University – Spring 2016

Completed a semester-long weekly course (BBS 879), during which I developed specific frameworks, plans, and materials for teaching challenging topics related to evolution and acquired strategies to “improve undergraduate science education by training a new generation of scientific teachers to bring the spirit and rigor of research into the undergraduate classroom”.

Assistant for developing a new course at Yale University, with the Yale Center for Teaching and Learning (CTL) – Spring 2016. I assisted the Professors, Drs. Fernandez-Duque and Claudia Vaggia, in developing plans and materials for teaching lecture and discussion sections of a new course, ANTH 132 (Sex, Love and Reproduction). In addition to developing lesson plans and resources for myself and other teaching fellows, I also assisted in preparing lectures and presented lecture material to the class, and participated in a teaching consultation with a CTL fellow to evaluate and reflect upon my teaching in the classroom.

#### Teaching Certificates:

Teaching Certificate from the Center for Teaching and Learning at the University of Pennsylvania

*Completed in 2014.* Participated in a series of workshops and formal conversations about teaching and took part in one-on-one meetings with a fellow from the Center for Teaching and Learning who has observed my teaching in the classroom. <https://wwwctl.upenn.edu/ctl-teaching-certificate>

Foundations for Excellence in Teaching Online. *Completed May 2020*, Arizona State University (online).

<https://courses.edx.org/certificates/ee5f81f7512540a78e397fadd17d1299>



Certificate of College Teaching Preparation (also meets requirements for CIRTL Associate). *Currently completing through the Yale Center for Teaching and Learning.*

[http://ctl.yale.edu/sites/default/files/basic-page-supplementary-materials-files/postdoc\\_cctp\\_worksheet.pdf](http://ctl.yale.edu/sites/default/files/basic-page-supplementary-materials-files/postdoc_cctp_worksheet.pdf)

**Student Training and Mentoring:**

2017-Present. Assisted in supervising the senior thesis projects of 10 undergraduate students at Yale.

June 2019. Instructor for the Warrior-Scholars Project (STEM program area). I provided training in research design and laboratory techniques for a group of five veterans and supervised them as they carried out a research project that examined how salivary cortisol levels changed in response to various forms of exercise.

June 2018. Instructor for the Summer Scholars Program (part of the Yale University Pathways to Science project), during which I taught a week-long course to high school students. Students participated in hands-on demonstrations and carried out mini research projects in small groups to learn about the topic of “Hormones and Behavior”.

Aug 2016, Aug 2017. I worked as a Conversation Partner for the Yale Center for Language Study’s summer English Language Program for incoming international graduate students. I meet with students and prepared activities to help them practice their spoken English skills, guided them through assignments, and supervised their participation in group projects.

Jan 2015-Aug 2016. I trained and supervised undergraduate students and visiting graduate students in laboratory techniques (e.g. hormone extraction, Enzyme Immunosorbent Assays) at the Yale Reproductive Ecology Lab (YREL).

May-July 2012, 2013, & 2014, May-Jun 2015. I trained and supervised undergraduate students from the University of Pennsylvania as they participated in summer field research with the Owl Monkey Project in Formosa, Argentina. I also helped several of these students complete independent projects and write up their results for poster presentations.

**Science Education Outreach Activities for K-12 students:**

-Judging Team Captain for Grade-level Projects at the New Haven Science Fair, 2019-2021

-Mentor for New Haven Science Fair, 2017-2020

-Volunteer at CRISP Family Science Nights, 2017-2020

-Ran an enrichment workshop for high school students at the Yale Reproductive Ecology Lab, Jul 2019

-Judge for the New Haven Science Fair, 2018

-Instructor for Pathways to Science (Yale Summer Scholars Program for high school students), Jul 2018

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**PROFESSIONAL SERVICE ACTIVITIES**

**Peer review:**

Reviewed research articles for *American Journal of Primatology*, *Folia Primatologica*, *Hormones and Behavior*, *Physiology and Behavior*, and *Primates*.

**Grant proposal review:**

Reviewer for Yale Institute for Biospheric Sciences’s graduate student grants. 2018-2020.

**Conference Organization:**



I co-organized the third conference of the Northeastern Evolutionary Primatology group (NEEP), which was held at Yale University, October 27-28, 2017.

### **Symposium and Workshop Organization:**

-I assisted Dr. E. Fernandez-Duque in organizing the one-day workshop “P.A.I.R: Program on Aotus Integrated Research” at Yale University in May 2016.

-I co-created and organized the panel discussion “Proof in the Biological, Social and Behavioral Sciences”. The event was part of a university-wide theme year at the University of Pennsylvania (the Year of Proof), and aimed to critically examine the biases in behavioral sciences research.

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### **PROFESSIONAL SOCIETY MEMBERSHIP**

International Society of Wildlife Endocrinology, since 2015

Animal Behavior Society, since 2014

American Association for Biological Anthropologists (AAA), since 2012

International Primatological Society (IPS), since 2011

American Society of Primatologists (ASP), since 2011

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### **ADDITIONAL INFORMATION**

#### **Computing Skills:**

Excellent typing skills.

Adept in Microsoft Word, Excel, Powerpoint, and Access.

Proficient with spatial analysis software (ArcGISPro and Geospatial Modelling Environment), genetic analysis software (GeneMarker, Geneious, Arlequin, GENEPOP, Relatedness), and statistical/programming (R, SAS, SPSS).

Completed and received official course certificates from Johns Hopkins University for the following online courses: The Data Scientist’s Toolbox ([Aug 2017](#)), R Programming ([Sep 2017](#)), and Getting and Cleaning Data ([Oct 2017](#)).

#### **Laboratory Skills:**

Enzyme immunoassays/ELISA for reproductive hormones and markers of inflammation, including Multiplex assays

Methods for extracting steroid hormones from fecal and hair samples and validating new assays for a variety of sample types (breast milk, saliva, hair, urine, feces)

DNA extraction from blood, tissue, hair, and fecal samples.

Techniques for analyzing extracted DNA – e.g., PCR, gel electrophoresis, fragment analyses, sequencing

#### **Volunteer Activities (outside of Academia)**

Greater New Haven Cat Project – weekly direct care volunteer and Board Member (Development officer), since 2020