

Liliana Cortés Ortiz

curriculum vitae

Contact details

Department of Ecology and Evolutionary Biology
University of Michigan
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EDUCATION

Ph. D. in Biological Sciences. January 2003. School of Biological Sciences, University of East Anglia, Norwich, Norfolk, England.

Thesis: Evolution of howler monkeys, Genus *Alouatta*.

Maestría en Neuroetología (equivalent to M.Sc.) June 1998. Instituto de Neuroetología, Universidad Veracruzana, Xalapa, Veracruz, Mexico.

Thesis: Mating system and sexual behavior of howler monkeys (*Alouatta palliata mexicana*) in semi-free conditions.

Licenciatura en Biología (equivalent to B.Sc.) November 1992. Facultad de Biología, Universidad Veracruzana, Xalapa, Veracruz, Mexico.

ACADEMIC POSITIONS

October 2015 – to date. Faculty of the University of Michigan Predoctoral Genetics Training Program (“Michigan Predoctoral Training in Genetics” T32GM007544).

September 2013 – to date. Research Associate Professor at the Department of Ecology and Evolutionary Biology, University of Michigan.

January – April 2019. LEO Lecturer I. Department of Ecology and Evolutionary Biology. University of Michigan. EEB 390 section 001: Evolution.

January – April 2017. LEO Lecturer I. Department of Ecology and Evolutionary Biology. University of Michigan. EEB 390 section 001: Evolution.

June 2008 – March 2017. Director of the Genomic Diversity Laboratory, Department of Ecology and Evolutionary Biology, University of Michigan.

September 2004 – August 2013. Assistant Research Scientist at the Department of Ecology and Evolutionary Biology & Museum of Zoology, University of Michigan.

January – April 2007. LEO Lecturer I. Department of Ecology and Evolutionary Biology. University of Michigan. Biology 120 section 001: Behavior of Neotropical Primates.

January 2003 – January 2005. Investigador de tiempo completo, titular “C” (equivalent to tenured Professor). Universidad Veracruzana, Xalapa, Veracruz, Mexico.

January 1991 – July 1998. Research assistant. Primatology group, Institute of Neuroethology, Universidad Veracruzana. Xalapa, Veracruz, Mexico.

ACADEMIC HONOURS

Member of the National System of Researchers of the National Council of Research and Technology (CONACyT, Mexico), at the level of “Candidato a Investigador Nacional”. From January 2004 to January 2005.

Reconocimiento al Mérito Universitario (Recognition for the University Excellence) for being the best student in the Natural Sciences academic area (including schools of Biology, Agronomy, and Veterinary). Awarded in 1992 by the Universidad Veracruzana.

GRANTS AND AWARDS

2019 – 2020. University of Michigan Office of Research **MCubed**. *Data curation protocols to support analysis of interactions of peony viruses*. (Andrea Thomer and Yin-Long Qiu, Co-PIs, David Michener, collaborator). \$15,000.

2015 – 2019. **National Science Foundation (NSF BCS-1517701)**. *Genomic signatures of reproductive isolation in a primate hybrid system*. PI. \$303,924

2015 – 2018. **Margot Marsh Biodiversity Foundation**. *Genetic diversity and conservation status of howler monkeys (genus Alouatta) in Peru*. PI. \$15,000

2015 – 2016. U-M Office of Research (UMOR) Bridging Support. \$26,316

2014 – 2015. **Elizabeth C. Crosby Research Award**. University of Michigan ADVANCE Program. *Collaborative research on pygmy marmosets (Cebuella pygmaea) in Ecuador* \$9,399

2010 – 2015. **National Science Foundation (NSF BCS-0962807)**. *Collaborative Research: Causes and Consequences of Vocal Variation in a Howler Monkey (Alouatta spp.) Hybrid Zone: An Integrated Behavioral, Morphological and Genetic Approach*. PI (Thore Bergman and Dawn Kitchen, co-PIs). \$378,907

2010. Margaret and Herman Sokol Endowment for Faculty and Graduate Student Research Projects in the Sciences. **Rackham Graduate School and the Office of the Vice President for Research, University of Michigan**. *Genetic characterization of hybrid howler monkeys from Tabasco, Mexico*. PI. \$6,000

2008. **Office of the Vice President for Research Faculty Grant, University of Michigan**. *Vocalizations in purebred and hybrid howler monkeys in Mexico*. PI. \$10,620

2008. **NSF - Research Experiences for Undergraduates program. REU - Hybridization Between Howler Monkeys in Mexico: Genetic and Morphological Characterization.** PI. \$6,000
- 2007 – 2008. **Office of the Vice President for Research Faculty Grant, University of Michigan. Genomic Diversity Laboratory: updating a shared teaching and research facility at the Museum of Zoology.** Collaborator. \$23,282
- 2007 – 2011. **National Science Foundation (DEB-0640519). Hybridization Between Howler Monkeys in Mexico: Genetic and Morphological Characterization (Population and Evolutionary Processes and Physical Anthropology programs).** PI. \$194,997
2005. **Lydia Adams DeWitt Award from the NSF-ADVANCE Project at the University of Michigan. Origins of Biodiversity in the Neotropics: Phylogeography and Systematics of Howler monkeys (genus *Alouatta*).** PI. \$19,441.20
2005. **Office of the Vice President for Research Faculty Grant, University of Michigan. Development of microsatellite markers for the study of a hybrid zone between howler monkeys (*Alouatta palliata* and *A. pigra*) in Mexico.** PI. \$14,400
- 2003 – 2004: **Secretary of Public Education of the Federal Government of Mexico (through the PROMEP). PROMEP/103.5/03/1154. Hybrid zone between two species howler monkeys in Mexico.** PI. \$299,906 Mexican pesos (equivalent to \$28,687.06 USD).

TEACHING

Undergraduate Courses

- Winter 2019. EEB 390. ***Evolution***. University of Michigan.
- Fall 2018. BIOLOGY 300-119. Undergrad Tutorial (Independent Study). University of Michigan (Student: Nathan Amann)
- Winter 2018. BIOLOGY 200-119. Undergrad Tutorial (Independent Study). University of Michigan (Student: Cassandra Huerta)
- Winter 2018. EEB 300–119 Undergrad Research (Independent Study). University of Michigan (Student: Noah Ehrlich)
- Fall 2017. BIOLOGY 200-119. Undergrad Tutorial (Independent Study). University of Michigan (Student: Cassandra Huerta)
- Fall 2017. EEB 300–119 Undergrad Research (Independent Study). University of Michigan (Student: Noah Ehrlich)
- Winter 2017. EEB 390. ***Evolution***. University of Michigan.
- Winter 2017. EEB 300–119 Undergrad Research (Independent Study). University of Michigan (Student: Juan Fossas).
- Winter 2015. EEB 300–119 Undergrad Research (Independent Study). University of Michigan (Student: Mariam Akhtar).
- Winter 2012. EEB 300–119 Undergrad Research (Independent Study). University of Michigan (Student: Carianne Koop).

- Winter 2011. EEB 300–119 Undergrad Research (Independent Study). University of Michigan (Student: Brittany Anne Salagean).
- Fall 2010. EEB 300–119 Undergrad Research (Independent Study). University of Michigan (Student: Jacqueline Ana Levene).
- Fall 2009. EEB 300–119 Undergrad Research (Independent Study). University of Michigan (Student: Dane Nathan Horowski).
- Winter 2009. EEB 300–119 Undergrad Research (Independent Study). University of Michigan (Student: Rachael Ann Shaney).
- Winter 2007. First Year Seminar (Biology 120 – section 001). *Behavior of Neotropical Primates*. University of Michigan.
- September 2003 to February 2004. Professor of the undergraduate course *Biodiversity* at the Faculty of Agronomy, Universidad Veracruzana.

Graduate Courses

- Winter 2020. EEB 730–119. Advanced Studies (Independent Study). University of Michigan (Student: Kirby Mills)
- Winter 2020. EEB 995–119 Dissertation/Candidate. University of Michigan (Students: Molly Hirst & Adrian Melo Carrillo)
- Fall 2019. EEB 995–119 Dissertation/Candidate. University of Michigan (Students: Molly Hirst & Adrian Melo Carrillo)
- Winter 2019. EEB 995–119 Dissertation/Candidate. University of Michigan (Students: Molly Hirst, Adrian Melo Carrillo & Marcella Baiz)
- Winter 2019. EEB 900–119. Advanced Studies (Independent Study). University of Michigan (Students: Susanna Campbell)
- Fall 2018. EEB 995–119 Dissertation/Candidate. University of Michigan (Student: Adrian Melo Carrillo & Marcella Baiz)
- Fall 2018. EEB 900–119. Advanced Studies (Independent Study). University of Michigan (Students: Susanna Campbell & Molly Choi)
- Winter 2018. EEB 995–119 Dissertation/Candidate. University of Michigan (Student: Marcella Baiz)
- Winter 2018. EEB 900–119. Advanced Studies (Independent Study). University of Michigan (Students: Adrian Melo Carrillo & Molly Choi)
- Winter 2018. EEB 790–119. Master Thesis (Independent Study). University of Michigan (Student: Xorla Ocloo)
- Fall 2017. EEB 995–119 Dissertation/Candidate. University of Michigan (Student: Marcella Baiz)
- Fall 2017. EEB 900–119. Advanced Studies (Independent Study). University of Michigan (Students: Adrian Melo Carrillo & Molly Choi)
- Fall 2017. EEB 790–119. Master Thesis (Independent Study). University of Michigan (Students: Xorla Ocloo)
- Fall 2017. EEB 700–119. Advanced Studies (Independent Study). University of Michigan (Student: Susanna Campbell)
- Winter 2017. EEB 995–119 Dissertation/Candidate. University of Michigan (Student: Marcella Baiz)
- Winter 2017. EEB 900–119. Advanced Studies (Independent Study). University of Michigan (Students: Adrian Melo Carrillo)

- Winter 2017. EEB 790–119. Master Thesis (Independent Study). University of Michigan (Students: Susanna Campbell & Xorla Ocloo)
- Fall 2016. EEB 995–119 Dissertation/Candidate. University of Michigan (Student: Marcella Baiz)
- Fall 2016. EEB 900–119. Advanced Studies (Independent Study). University of Michigan (Students: Adrian Melo Carrillo)
- Fall 2016. EEB 790–119. Advanced Studies (Independent Study). University of Michigan (Student: Susanna Campbell).
- Winter 2016. EEB 995–119 Dissertation/Candidate. University of Michigan (Student: Marcella Baiz)
- Winter 2016. EEB 790–119. Master Thesis (Independent Study). University of Michigan (Students: Susanna Campbell)
- Winter 2016. EEB 730–119. Advanced Studies (Independent Study). University of Michigan (Students: Delaney Cargo).
- Fall 2015. EEB 995–119 Dissertation/Candidate. University of Michigan (Student: Marcella Baiz)
- Fall 2015. EEB 700–119. Advanced Studies (Independent Study). University of Michigan (Students: Adrian Melo Carrillo)
- Fall 2015. EEB 730–119. Advanced Studies (Independent Study). University of Michigan (Students: Delaney Cargo).
- Winter 2015. EEB 990–119 Dissertation/Precandidate. University of Michigan (Student: Marcella Baiz)
- Winter 2015. EEB 790–119. Master Thesis (Independent Study). University of Michigan (Students: Adrian Melo Carrillo, Sergio Redondo & Audra Huffmeyer)
- Winter 2015. EEB 730–119. Advanced Studies (Independent Study). University of Michigan (Students: Delaney Cargo).
- Fall 2014. EEB 990–119. Dissertation/Precandidate (Independent Study). University of Michigan (Student: Marcella Baiz)
- Fall 2014. EEB 730–119. Advanced Studies (Independent Study). University of Michigan (Students: Adrian Melo Carrillo & Delaney Cargo).
- Fall 2014. EEB 790–119. Master Thesis (Independent Study). University of Michigan (Students: Sergio Redondo & Audra Huffmeyer)
- Winter 2014. EEB 730–119. Advanced Studies (Independent Study). University of Michigan (Student: Adrian Melo Carrillo).
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- Fall 2013. EEB 730–119. Advanced Studies (Independent Study). University of Michigan (Student: Adrian Melo Carrillo).
- Winter 2013. EEB 790–119. Master Thesis (Independent Study). University of Michigan (Student: Marcella Baiz).
- Fall 2012. EEB 790–119. Master Thesis (Independent Study). University of Michigan (Student: Marcella Baiz).
- Fall 2011. EEB 730–119. Advanced Studies (Independent Study). University of Michigan (Student: Marcella Baiz).
- Winter 2009. EEB 730–119. Advanced Studies (Independent Study). University of Michigan (Student: Lucy An Phuong Tran).

February – July, 1995. Professor of the *Pre-requisites courses of the Master Program in Neuroethology* of the Universidad Veracruzana, with the subject *Ethology*.

International Courses

November 3 to 6, 2017. Instructor of the post-congress course *Abordajes para la primatología en Latinoamérica*. III Congreso Latinoamericano de Primatología. Catemaco, Veracruz, Mexico. (in Spanish)

June 2 to 6, 2015. Instructor of workshop: *Studying Primate Behavior, Endocrinology and Genetics*. Universidad de San Francisco de Quito, Quito Ecuador. (in Spanish)

August 21 to 25, 2012. Instructor of the post-congress course: *Study and Conservation of Primates in Transformed Habitats: Neotropical Region* (Estudio y Conservación de Primates en Hábitats Transformados: Región Neotropical). Within the frame of the XXIV Congress of the International Primatological Society. Cancun, México. (in English and Spanish)

October 17 & 18, 2011. Instructor of the pre-symposium course: *Molecular tools for the study and conservation of primates* (*Herramientas moleculares para el estudio y conservación de primates*). Within the symposium “Primateology in Peru, history actual status and perspectives” (La Primatología en el Peru: Historia, Estado Actual y Perspectivas). Lima, Peru. (in Spanish)

March 25 to 27, 1998. Instructor at the 3rd. International Course *Neurobiological and Ecological Bases of Behaviour: Survivorship and Reproduction*. Tlaxcala, Tlaxcala, Mexico.

December 1 to 6 1996. Instructor of the theoretical-practical course *Animal Ecology: Practices and Lessons*. Institute of Neuroethology, Universidad Veracruzana. Catemaco, Veracruz, Mexico.

April 29 to May 3, 1996. Instructor of the theoretical-practical course *Animal Ecology: Practices and Lessons*. Institute of Neuroethology, Universidad Veracruzana. Catemaco, Veracruz, Mexico.

September, 1995. Instructor of the theoretical-practical course *Study and Conservation of Wildlife*. Institute of Neuroethology, Universidad Veracruzana. Catemaco, Veracruz, Mexico.

March 2 to 4, 1995. Instructor at the workshop *Population and Habitat Viability Analysis for Alouatta palliata mexicana*, Conservation Breeding Specialist Group (SSC/IUCN), the Primate Specialist Group (SSC/IUCN), and the Association of Zoos, Breeding Centres and Aquariums of the Mexican Republic. Puebla, Mexico.

February 27 to March 1, 1995. Instructor at the workshop *Conservation Assessment and Management Plan for Mexican Primates*. Conservation Breeding Specialist Group (SSC/IUCN), Primate Specialist Group (SSC/IUCN), and Association of Zoos, Breeding Centres and Aquariums of the Mexican Republic. Puebla, Mexico.

September 12 to 17, 1994. Instructor of the theoretical-practical course *Study and Conservation of Wildlife*. Institute of Neuroethology, Universidad Veracruzana. Catemaco, Veracruz, Mexico.

July 11 to 16, 1994. Instructor of the theoretical-practical course *Study and Conservation of Wildlife*. Institute of Neuroethology, Universidad Veracruzana. Catemaco, Veracruz, Mexico.

October 26th, 1993. Instructor at the workshop *Translocation and Reintroduction of Primates: a Model for Other Species*, within the IV Congress of the Latin American Association of Zoological Parks, Aquariums and Similar Institutions. Puebla, Mexico.

September 13th, 1993. Instructor of the course *Tropical Biology in Los Tuxtlas* taught to Bachelor students of the University of California, Irvine. Catemaco, Veracruz, Mexico.

May 19th, 1993. Instructor and co-ordinator of the workshop *Evaluation of Captive Primate Populations in Mexico*, within the IV Symposium of the Mexican Association of Primatology. Tuxtla Gutierrez, Chiapas, Mexico.

Guest Lectures

Experiences with media coverage of our research on hybridization of howler monkeys in Mexico. Guest Lectures - Environ/NRE 320 - Environmental journalism: reporting about science, policy and public health. Program in the Environment. University of Michigan (Invited by Julie Halpert). September 14th, 2017, February 1st, 2018, October 3rd, 2019. Ann Arbor, MI

Diversity, Evolution and Conservation of Neotropical Primates. Guest Lecture - BIO108- Introduction to Animal Diversity. (Invited by Dr. Laura Eiditis). October 19th, 2016, Ann Arbor, MI

Howler monkey die-off in Nicaragua. Guest Lecture - Environ/NRE 320 - Environmental journalism: reporting about science, policy and public health. Program in the Environment. (Invited by Julie Halpert). October 13th, 2016, Ann Arbor, MI

Diversity, Evolution and Conservation of Neotropical Primates. Guest Lecture - BIO108- Introduction to Animal Diversity. (Invited by Dr. Laura Eiditis). October 14th, 2015, Ann Arbor, MI

Genetic perspectives of the hybridization of Mexican howler monkeys. Guest Lecture - HG 632 - Experimental Genetic Systems, Department of Human Genetics (Invited by Dr. Adam Luring) University of Michigan. December 8th, 2014, Ann Arbor, MI

Origin, Evolution and Diversity of Neotropical Primates. Guest Lecture BIO108 - Animal Diversity (Invited by Dr. Laura Eiditis) University of Michigan. October 9th, 2013, Ann Arbor, MI

Mentoring

For the past 15 years I have mentored 25 undergraduate students (19 women, seven underrepresented racial/ethnic minorities, five first generation students), served as advisor or co-advisor to six Ph.D. students and nine Masters students (five from the Frontier's Masters program, a bridge-to-Ph.D. program for students of groups underrepresented in science). I also have served as a member of Ph.D. dissertation committees for eight students (six from the US and two from Mexico) and three for Master's students. Beside training my students in molecular techniques and analyses I have provided training in my lab to one Ph.D. and two Masters student from different departments at UM (Anthropology and SNRE), one Ph.D. student from Stony

Brook University, one Ph.D. and four Master's students from Mexico, one undergraduate student from Puerto Rico, one undergraduate student from Ecuador, and one postdoctoral woman fellow from South Africa. I also serve as a mentor to a visiting scholar from the Central Botanical Garden of the National Academy of Sciences of Belarus (Dr. Nastassia Vlasava) and to two junior research faculty, at the level of Assistant Research Scientist (Cody Thompson and Gabriel Arellano).

DISSERTATIONS & THESES SUPERVISED

Marcella Baiz. 2019. *The Genetic Architecture of Speciation in a Primate Hybrid Zone*. PhD. Student at the Department of Ecology and Evolutionary Biology, University of Michigan. Advisor. (Completed)

Xorla Ocloo. 2018. *Evolutionary History of Howler Monkeys and their Pinworms*. Frontiers Masters student at the Department of Ecology and Evolutionary Biology, University of Michigan. Advisor. (Completed)

Susanna Campbell. 2017. *Effects of Genetic Variation in Oxytocin and its Receptor on the Affiliative Behavior in Howler Monkeys (Alouatta)*. Frontiers Masters student at the Department of Ecology and Evolutionary Biology, University of Michigan. Advisor. (Completed)

Delaney Cargo. 2016. *An assessment of genetic variation in Mexican black howler monkeys (Alouatta pigra)*. M.Sc. Department of Ecology and Evolutionary Biology, University of Michigan. Advisor. (Completed)

Audra Huffmeyer. 2015. *Molecular evolution of Apolipoprotein B- exon 26*. M.Sc. Department of Ecology and Evolutionary Biology, University of Michigan. Advisor. (Completed)

Adrián Melo Carrillo. 2015. *A genetic assessment of the critically endangered Mexican howler monkey (Alouatta palliata mexicana)*. M.Sc. Department of Ecology and Evolutionary Biology, University of Michigan. Advisor. (Completed)

Sergio Redondo. 2015. *A new understanding of the diversity and evolutionary history of Peruvian red howler monkeys*. M.Sc. Department of Ecology and Evolutionary Biology, University of Michigan. Advisor. (Completed)

Lucy Ho. 2014. *Factors contributing to behavioral variation in two species of Alouatta and their hybrids*. PhD. Student at the Department of Psychology, University of Michigan. Advisor. (Completed)

Marcella Baiz. 2013. *Intragroup genetic relatedness in two species of howler monkeys (Alouatta pigra and A. palliata): Implications for understanding dispersal and social systems*. M.Sc. Department of Ecology and Evolutionary Biology, University of Michigan. Advisor. (Completed)

Jane Remfert. 2012. *Genetic variation and colony formation of the ant Azteca in a coffee agroecosystem*. M.Sc. the School of Natural Resources and Environment, University of Michigan. Co-advisor. (Completed)

Mary Kelaita. 2011. *Morphological variation of two howler monkey species and their genetically-confirmed hybrids*. Ph.D. Department of Anthropology, University of Michigan, Ann Arbor (Completed)

Christine E. Crowe. 2009. *Population genetics of Alouatta palliata aequatorialis in coastal Ecuador*. Masters student, Maestría en Biodiversidad en Areas Tropicales y su Conservación, Universidad Internacional Menéndez Pelayo (UIMP), Consejo Superior de Investigaciones Científicas (CSIC) and Universidad Central del Ecuador (UCE) (Completed)

Guadalupe Medel Palacios. 1998. *Descriptive analysis of sexual behaviour of howler monkeys (Alouatta palliata mexicana)*. Licenciatura (equivalent to B.Sc.). Faculty of Biology, Universidad Veracruzana, Xalapa, Veracruz, Mexico (Completed)

DISSERTATION & THESES COMMITTEE MEMBER

Kirby Mills. Ph.D. student at the Department of Ecology and Evolutionary Biology, University of Michigan. Secondary advisor and Committee member. *Current*.

Susanna Campbell. Ph.D. student at the Department of Ecology and Evolutionary Biology, University of Michigan. Advisor. *Current*.

Molly Hirst. Ph.D. student at the Department of Ecology and Evolutionary Biology, University of Michigan. Advisor. *Current*.

Adrián Melo Carrillo. Ph.D. student at the Department of Ecology and Evolutionary Biology, University of Michigan. Advisor. *Current*.

Fanny Cornejo. Ph.D. student. Interdepartmental Doctoral Program in Anthropological Sciences. Stony Brook University. Committee member. *Current*.

Iris Holmes. Ph.D. student at the Department of Ecology and Evolutionary Biology, University of Michigan. Committee member. *Current*.

Sharmi Sen. Ph.D. student at the Department of Anthropology, University of Michigan. Committee member. *Current*.

Elizabeth Feliciano. Frontiers Masters student at the Department of Ecology and Evolutionary Biology, University of Michigan. Committee member. *Current*.

Marcella Baiz. Ph.D. student at the Department of Ecology and Evolutionary Biology, University of Michigan. Advisor. *Completed May 2019*.

Sarah Barney. Masters student at the School of Natural Resources and Environment. Committee member. *Completed January 2019*.

Haniyeh Zamani. Undergraduate Honors Student in Biology. Honors Thesis Reader. *Completed January 2019*.

María del Socorro Aguilar Cucurachi. Ph.D. student. Instituto de Investigaciones en Educación, Universidad Veracruzana. *Completed October 2018*.

Xorla Ocloo. Frontiers Masters student at the Department of Ecology and Evolutionary Biology, University of Michigan. Advisor. *Completed June 2018*.

Ellery Wong. Undergraduate Honors Student in Ecology, Evolution, & Biodiversity. Honors Thesis Reader. *Completed May 2018*.

Susanna Campbell. Frontiers Masters student at the Department of Ecology and Evolutionary Biology, University of Michigan. Advisor. *Completed May 2017*.

Héctor Hugo Barradas García. Ph.D. student. Instituto de Neuroetología, Universidad Veracruzana. México. Committee member. *Completed October 2016*.

Marcela Guimarães Moreira Lima. 2016. Programa de Pós-graduação em Zoologia, Curso de Doutorado, do Museu Paraense Emílio Goeldi e Universidade Federal do Pará. Brazil. Reviewer and evaluator of thesis entitled “Filogenia, Biogeografia e História Evolutiva dos Macacos-Prego, Gênero Sapajus Kerr, 1792 (Primates: Cebidae)”. *Completed August 2016*.

Delaney Cargo. Masters student at the Department of Ecology and Evolutionary Biology, University of Michigan. Advisor. *Completed May 2016*.

Audra Huffmeyer. Frontiers Masters student at the Department of Ecology and Evolutionary Biology, University of Michigan. Advisor. *Completed June 2015*.

Adrián Melo Carrillo. Masters student at the Department of Ecology and Evolutionary Biology, University of Michigan. Advisor. *Completed May 2015*.

Sergio Redondo. Frontiers Masters student at the Department of Ecology and Evolutionary Biology, University of Michigan. Advisor. *Completed May 2015*.

Lucy Tran. Ph.D. student at the Department of Ecology and Evolutionary Biology, University of Michigan. Committee member. *Completed April 2015*.

Juan Buso. M.Sc. student at the Department of Ecology and Evolutionary Biology, University of Michigan. Committee member. *Completed June 2013*.

Nelson Galvis. 2012. M.Sc. student at the Postgraduate School of Biological Sciences, Universidad de Los Andes, Colombia. Thesis: Genetic structure of the brown spider monkey (*Ateles hybridus*): Conservation implications” (in Spanish). Thesis evaluation committee member. Completed, November 2012.

Brenda Díaz. M.Sc. student at the Instituto de Ecología, A. C., Xalapa, Veracruz, Mexico. Committee member. January to July 2012. Completed.

Alba Lucía Morales, Ph.D. 2011. Department of Anthropology, New York University. Ph. D. Committee member. Thesis: “Evolutionary History, Phylogeography and Conservation Priorities for the Spider Monkey (genus *Ateles*)”. Completed September 2011.

Felipe Ennes Silva, M.Sc. 2010. Faculdade de Biociencias, Pontificia Universidade Catolica do Rio Grande Do Sul. Brazil. Reviewer and evaluator of thesis entitled “Extensao da zona de contato e potencial hibridacao entre *Alouatta caraya* e *Alouatta guariba clamitans* na regio de Sao Francisco de Assis, RS”. Completed February 2010.

INVITED PRESENTATIONS (*keynote speaker)

Genetic and genomic analyses of a neotropical primate hybrid zone: a window to understand reproductive isolation and adaptive introgression. Symposium speaker, 65th Brazilian Congress of Genetics, Aguas de Lindoia, Sao Paulo. September 17 to 20 of September, 2019.

****What Have We Learned from Studying Primate Hybrid Zones?*** Keynote speaker, 27th Congress of the International Primatological Society, Nairobi, Kenya. August 22, 2018.

Genomic introgression in a natural primate hybrid zone. Florida Atlantic University. Boca Raton, FL. April 18th, 2018

Hybridization of howler monkeys: A window to understand primate evolution. Michigan Ecology and Evolutionary Biology Society. Ann Arbor, MI. December 6th, 2017

Molecular genetic tools for the study and conservation of Neotropical Primates. UNESCO International Forum: Primatology, Bio-cultural Diversity and Sustainable Development in Tropical Forests, 25 – 27 September 2017, Mexico City.

Hybridization and gene flow in a Neotropical primate. Speaker at the seminar series of the Department of Biology, The College of Wooster. Wooster, Ohio. November 17th, 2016.

****Aspectos genéticos, morfológicos y conductuales de la hibridación natural de monos aulladores en México.*** Keynote speaker, IX Congreso del Programa de Maestría y Doctorado en Ciencias de la Producción y de la Salud Animal, Universidad Nacional Autónoma de México. June 20 to 24, 2016, Mexico City.

****Diversity and biogeography of red howler monkeys in Peru.*** Keynote speaker, III Symposium “Primateology in Peru”. October 20–23, 2015, Puerto Maldonado, Peru. (Spanish)

Reconstructing the evolutionary history of howler monkeys. Chi Epsilon, the Civil Engineering Honors Society. University of Michigan. December 3rd, 2014, Ann Arbor, MI

****Hibridación de monos aulladores: morfología, introgresión genética y aislamiento reproductivo.*** Keynote speaker. Congreso Nacional de Genética 2014. Sociedad Mexicana de Genética. September 30 – October 3, 2014. Xalapa, Veracruz, Mexico. (Spanish)

Genetic, morphological and behavioral perspectives on hybridization in Mexican howler Monkeys. Departmental Seminar, Department of Ecology and Evolutionary Biology, University of Michigan. April 3rd, 2014, Ann Arbor, MI

Reconstructing the evolutionary history of howler monkeys. Society of Biology Students. University of Michigan. November 7th, 2013, Ann Arbor, MI

****Estudio genético y morfológico de la hibridación de monos aulladores en México.*** Keynote speaker. Symposium “Primateology in Peru, history, current status, and perspectives” (La Primatología en el Peru: Historia, Estado Actual y Perspectivas). October 19-22, 2011. Lima, Peru. (Spanish)

Genetics and conservation of mexican howler monkeys (La genética y la conservación de monos aulladores mexicanos). Symposium “Contribuciones de la investigación básica para la conservación de los primates mexicanos”. III Congreso Mexicano de Ecología. April 4-5th, 2011. Veracruz, Mexico. (Spanish)

****Conservation genetics of mexican howler monkeys.*** Keynote speaker. Primer Congreso de Ecología de Enfermedades y Medicina de la Conservación. November 6th, 2009. Veracruz, Mexico. (Spanish)

Genetic and morphological characterization of hybridization of howler monkeys in Mexico. Symposium: Hybridization in Primates - Evidence, Extent, Evolutionary Impact and Problems. October 10th, 2009. Gottingen, Germany.

Evolutionary history of howler monkeys in Mesoamerica. Presentation in Tropobio, Department of Ecology and Evolutionary Biology, University of Michigan. Fall 2008. Ann Arbor, MI

Natural hybridization between howler monkeys in Mexico. Presentation in EEB lunch seminar, Department of Ecology and Evolutionary Biology, University of Michigan. Fall 2006. Ann Arbor, MI

Natural hybridization between howler monkeys in Mexico. Presentation at the Biopsychology Colloquium, Department of Psychology, University of Michigan. April 11th, 2006. Ann Arbor, MI

Molecular systematics and biogeography of howler monkeys. Presented at the Institute of Neuroethology, Universidad Veracruzana. Xalapa, Veracruz, Mexico. May 16th, 2003. (Spanish)

Mating system of howler monkeys *Alouatta palliata mexicana* in Mexico. Presented at the Smithsonian Tropical Research Institute. November 4th, 1999. Barro Colorado Island, Panama.

Ex Situ Conservation Tactics, presented in the Faculty of Biology, Universidad Veracruzana, to students of 8th semester. March 4th, 1998. Xalapa, Veracruz, Mexico. (Spanish)

Management and Conservation of Natural Resources, presented in *the First National Week of Science and Technology in Veracruz*, held from September 26th to October 1st, 1994. Xalapa, Veracruz, Mexico (Spanish)

Sexual Behaviour of Primates, presented in the cycle *Primates: Evolution, Ecology and Behaviour*, held from June 29th to July 1st, 1994 in Xalapa, Veracruz, Mexico (Spanish)

Reintroduction of Wildlife, presented in the Faculty of Veterinarian Medicine of the Universidad Autónoma de Yucatán. March 18th, 1993. Merida, Yucatan, Mexico. (Spanish)

Species in Danger of Extinction, presented in the Faculty of Veterinarian Medicine of the Universidad Autónoma de Yucatán. March 18th, 1993. Merida, Yucatan, Mexico. (Spanish).

SERVICE

University service

Member of the Faculty Associates Program of the Matthaei Botanical Gardens and Nichols Arboretum (2019 – present)

Member of the Museum of Natural History (UMMNH) Faculty Science Advisory Committee (FSAC) for period 2016 – 2019

Member of the Evolution of Human Adaptations Program (EHAP) Steering Committee (May 2018 – present)

Departmental service

Evaluation of Third-Year Review of Assistant Professor Alison Davis Rabosky (Winter 2020)

Member of the EEB Graduate Affairs committee (Fall 2018, Winter and Fall 2019, Winter 2020)

Member of the EEB Diversity committee (Winter and Fall 2016, Winter and Fall 2017, Winter 2018)

Member of the Promotion Review Panel for Cody Thompson's promotion to Associate Research Scientist (Summer - Fall 2018)

Mentor to Assistant Research Scientists, Dr. Cody Thompson (2016 to present) and Gabriel Arellano (2019 to present)

Evaluation of Third-Year Review of Assistant Research Scientist, Luke Nave (Winter 2015)

Other Institutional services

National Academy of Sciences, Engineering, and Medicine *Ad hoc* committee member for the project: *Assistance to the U.S. Fish and Wildlife Service on Taxonomic Studies of the Red Wolf: A Review of Applications to Carry out Research and Development of a Research Strategy*. (October 2019 – December 2020).

National Academy of Sciences, Engineering, and Medicine *Ad hoc* committee for the project: *Assessing the Taxonomic Status of the Red Wolf and the Mexican Gray Wolf* (September 2018 – March 2019).

Universidad Nacional Autónoma de México. External evaluator of the graduate program (Masters and Ph.D.) in Production and Animal Health Sciences, Faculty of Veterinary Medicine, Mexico City (June 2016).

Proposal reviewer

- **National Science Foundation:** Population and Evolutionary Processes Cluster (2005, 2008), Undergraduate Research and Mentoring in Biological Sciences (URM) program (2007, 2008), Physical Anthropology Program (2010, 2011), Biological Anthropology (2015).
- Leaky Foundation (2010, 2011, 2016)
- Office of the Vice President for Research, University of Michigan (2011)
- Primate Conservation Inc. (2018, 2019)
- International Primatological Society, Research Grants (2019)

Manuscript reviewer

Molecular Phylogenetics and Evolution (2013, 2014), *Journal of Zoology London* (2005), *Zoologischer Anzeiger* (2003), *Neotropical Primates* (1993-present), *American Journal of Primatology* (2006, 2007, 2009, 2012, 2016, 2019), *Primates* (2007, 2008, 2009, 2010), *International Journal of Primatology* (2007, 2014, 2015), *Biological Conservation* (2007), *Biotropica* (2008), *American Journal of Physical Anthropology* (2010), *Journal of Biogeography* (2011), *Primate Conservation* (2011), *Mastozoología Neotropical* (2014), *PlosOne* (2017), *International Journal of Primatology* (2017, 2018), *Zoologica Scripta* (2018), *Zootaxa* (2018), *Molecular Biology and Evolution* (2020).

Editorial services

2018-2019. Guest editor of Special Issue on “Primate hybridization and hybrid zones” for the *International Journal of Primatology*.

2017–present. Member of the Editorial Board of the *International Journal of Primatology*.

2014–2015. Guest editor of Special Issue on “Comparative Phylogeography of Neotropical Primates” for the journal *Molecular Phylogenetics and Evolution*.

2006–present. Editor of *Neotropical Primates* (Newsletter of the Primate Specialist Group, Neotropical Section, SSC/IUCN) from 2006 to date. (Editor since 2006, member of the editorial board from 2000 to date, and Assistant editor from 1993 to 2006).

Conference organizing activities

2019–present. Co-organizer of the joint meeting of the International Primatological Society and the Latin American Primatological Society, to be held August 16-22, 2020 in Quito, Ecuador.

2019–present. Co-organizer of the pre-congress workshop “Instruments for species conservation: scope, limitations, and application priorities for neotropical primates”, to be held August 15-16, 2020 in Quito, Ecuador, previous to the joint meeting of the International Primatological Society and the Latin American Primatological Society.

2019–present. Co-organizer of the Round Table “Primateology in Latin America: Contributions and Challenges for Primatological Societies in Promoting Research and Conservation of Neotropical Primates”, to be held at the joint meeting of the International Primatological Society and the Latin American Primatological Society, to be held August 16-22, 2020 in Quito, Ecuador.

2019–present. Co-organizer of the Round Table “Language and Conservation: Implications and Alternatives to New World/Old World and Other Terminology”, to be held at the joint meeting of the International Primatological Society and the Latin American Primatological Society, to be held August 16-22, 2020 in Quito, Ecuador.

2017-2018. Member of the Scientific Committee of the 27th Congress of the International Primatological Society, August 19-25, 2018 in Nairobi, Kenya.

2018. Co-organizer of the Round Table “Primateology in Latin America: Priorities and Challenges”, at the joint meeting of the International Primatological Society, August 19-25, 2018 in Nairobi, Kenya.

2018. Co-organizer of the “Roundtable on Diversity and Inclusion in Primatology” at the joint meeting of the International Primatological Society, August 19-25, 2018 in Nairobi, Kenya.

2017. Organizer of the III Latin American Congress of Primatology. Xalapa, Veracruz, Mexico, from October 27th to November 1st, 2017.

2016. Organizer of the Symposium “Hybridization and Natural Hybrid Zones in Primates”, at the joint meeting of the International Primatological Society and the American Society of Primatologists, from August 21-27, 2016 in Chicago.

2015. Co-organizer of the V Mexican Congress Primatology, from June 29 to July, 2015 in Veracruz, Mexico

2015. Organizer of the Symposium *Primatología en Lationamerica* at the V Mexican Congress Primatology, to be held from June 29 to July, 2015 in Veracruz, Mexico

2015. Co-organizer of the workshop “Studying Primate Behavior, Endocrinology and Genetics”. Universidad de San Francisco de Quito, from May 29 - June 6, 2015 in Quito, Ecuador.

2012. Co-organizer of the Symposium *Comparative Biogeography of Neotropical Primates* at the XXIV Congress of the International Primatological Society, August 16, 2012, Cancun, Mexico.

- 2011 – 2012. Member of the Scientific Committee of the XXIV Congress of the International Primatological Society, August 13-17, 2012, Cancun, Mexico.
2011. Co-organizer of the course *Molecular tools for the study and conservation of primates*. Lima, Peru, October 17 – 18, 2011.
2006. Co-organizer of the Second Conservation Assessment and Management Plan Workshop for Mexican Primates. October 16 – 20, 2006. Xalapa, Veracruz, Mexico.
2003. Co-organizer of the Symposium *Towards an Evaluation of the Natural Protected Areas in the Tropics*. December 3 – 5, 2003. Xalapa, Veracruz, Mexico.
1995. Co-organizer of the *V Simposium of the Mexican Primatological Association and III Meeting of the Latinoamerican Society of Primatology*, May 23 – 26, 1995. Puebla, Mexico
1995. Co-organizer of the *Population and Habitat Viability Analyses Workshop for *Alouatta palliata mexicana**. March 2 – 4, 1995. Puebla, México.
1995. Co-organizer of the *Conservation Assessment and Management Plan Workshop for Mexican Primates*. February 28 – March 1, 1995. Puebla, México.
1994. Co-organizer of the *III Regional Meeting: "Biodiversity: Study and Conservation in South-Southeastern Mexico"*. March 7 – 9, 1994. Xalapa, Veracruz, Mexico
1993. Co-organizer of the *IV Simposium of the Mexican Primatological Association*. May 17 – 20, 1993. Tuxtla Gutiérrez, Chiapas, Mexico.
1992. Co-organizer of the *II Regional Meeting "Biodiversity: Study and Conservation in South-Southeastern Mexico"*. October 6 - 9, 1992. Tuxtla Gutiérrez, Chiapas, Mexico.

MEMBERSHIP AND SERVICE IN ACADEMIC SOCIETIES

- Primate Specialist Group, SSC/IUCN, Co-Vice-President for the Neotropics***, 2017-2020. ***Regional Coordinator and Advisor for Mesoamerica*** since 2009-2016. Member since 1993.
- Latin American Society of Primatology (SLAPrim)***, founding member. Secretary 2017-2020, Treasurer 2015 to 2017.
- Mexican Association of Primatology (AMP)***, member since 1992. Secretary for period 2012-2016, Treasurer for periods 1993–1995 and 1995–1997.
- International Primatological Society (IPS)***, lifetime member.
IPS Conservation Committee: member and general assistant for period 1996–2000, **IPS Research Committee**: member 2018-2020. **IPS Diversity Committee** 2017-2018. **IPS Life Time Achievement Award committee** member 2018, and 2019-2020. **IPS Scientific Committee** member for XXVII Congress, Kenya 2018. **IPS Scientific Committee** member for XXVIII Congress, Quito 2020.
- American Society of Primatologists (ASP)***, full member.
 Membership and Finance Committee: member for period 2018–2020.
- American Association of Physical Anthropology***, full member.
- Professional Latinolas at UM Alliance (PLUMA)***. Member 2015-present.

OTHER DIVERSITY, EQUITY & INCLUSION ACTIVITIES

- 2019 - Co-organizer of the round table “Language and Conservation: Implications and Alternatives to New World/Old World and Other Terminology” as part of the 28th Congress of the International Primatological Society, Quito, Ecuador (August 2020).
- 2019 - Participant on the round table “Women in Primatology: Challenges, Insights and Accomplishments, with a focus on researchers from primate habitat countries” as part of the 28th Congress of the International Primatological Society, Quito, Ecuador (August 2020).
- 2019 - Participant in the workshop “Great Expectations: Mentoring Graduate Students” University of Michigan (December 6th, 2019, 2hr)
- 2018 - Participant in the workshop “Talking Tenure with Dean Liz Cole and the CRLT Players”, University of Michigan (September 6, 2018, 2hr)
- 2018 - Participant Round table “Diversity and Inclusion in Primatology”, at the 27th Congress of the International Primatological Society, Nairobi, Kenya (August 22, 2018)
- 2018 - Participant in the workshop “Cuts: Responding to Student Climate Concerns” by CRLT Players, University of Michigan (January 29, 2018)

PUBLICATIONS

Peer reviewed

1. Baiz, M. D., Tucker, P. M., Mueller, J. L., **Cortés-Ortiz, L.** (*in review*) X-linked signature of reproductive isolation in humans is mirrored in a howler monkey hybrid zone. *Journal of Heredity*.
2. Kühl, H.S., Arroyo-Rodríguez, V., Boonratana, R., Chapman, C. A., Chetry, D., Cheyne, S. M., Cornejo, F. M., **Cortés-Ortiz, L.**, Cowlishaw, G., Crockford, C., de la Torre, S., de Melo, F. R., Grüter, C., Guzmán Caro, D. C., Heymann, E. W., Herbinger, I., Horwich, R. H., Ikemeh, R. A., Imong, I. S., Johnson, S. E., Kappeler, P., Kierulff, C. M., Koné, I., Kormos, R., Le Khac, Q., Li, B., Marshall A. J., Mittermeier, R. A., Orth, L., Palacios, E., Papworth, S. K., Plumptre, A. J., Rawson, B. M., Petrovan, S. O., Refisch, J., Roos, C., Rylands, A. B., Setchell, J., Smith, R. K., Sop, T., Schwitzer, C., Slater, K., Strum, S. C., Sutherland, W. J., Talebi, M., Wallis, J., Wich, S., Williamson, L., Wittig, R. M., J. Junker. (*in review*) Severe lack of evidence limits effective conservation of the world’s primates. *BioScience*
3. Flores-Escobar, E., Sanpera, C., Jover, L., **Cortés-Ortiz, L.**, Rangel-Negrín, A., Canales-Espinosa, D., Dias, PAD. 2019. Isotopic niche partitioning in two sympatric howler monkey species. *American Journal of Physical Anthropology* (*accepted*)
4. Barradas-García, H. H., Morales-Mávil, J. E., Marchán-Rivadeneira, M. R., **Cortés-Ortiz L.** 2019. Genetic diversity of the Common Black Hawk (*Buteogallus anthracinus*) population in Los Tuxtlas, Mexico, based on microsatellite markers. *Revista Mexicana de Biodiversidad* (*in press*).
5. Travis, J., Allendorf, F.W. Boyd, D., **Cortés-Ortiz, L.**, Eggert, L., Genereux, D., Lynch, M., Maldonado, J. Nielsen, R. 2019. Evaluation the Taxonomic status of the Mexican Gray wolf and the Red wolf. The National Academies of Sciences, Engineering and Medicine. Consensus Study Report. Washington, D.C., 90 pp.

6. **Cortés-Ortiz, L.**, Canales-Espinosa, D., Dias, P. A. D., Bergman, T., Kitchen, D. M. 2019. From Mexico to Michigan and back: An international collaboration investigating primate behavior, ecology, and evolution from multiple perspectives. *American Journal of Primatology* 81:e22992.
7. Kitchen, D. M., Bergman, T. J., Dias, P. A. D., Ho, L., Canales-Espinosa, D., **Cortés-Ortiz, L.** 2019. Temporal but not acoustic plasticity in hybrid howler monkey (*Alouatta palliata* x *A. pigra*) loud calls. *International Journal of Primatology* 40:132–152.
8. **Cortés-Ortiz, L.**, Nidiffer, M. D., Hermida-Lagunes, J., García-Orduña, F., Kitchen, D. M., Bergman, T., Dias, P. A. D., Canales-Espinosa, D. 2019. Reduced introgression of sex chromosome markers in the Mexican howler monkey (*Alouatta palliata* x *A. pigra*) hybrid zone. *International Journal of Primatology*. 40:114–131.
9. **Cortés-Ortiz, L.**, Roos, C., Zinner, D. 2019. Introduction to Special Issue on Primate Hybridization and Hybrid Zones. *International Journal of Primatology* 40:1–8.
10. Ackermann, R. R., Arnold, M. L., Cahill, J. A., **Cortés-Ortiz, L.**, Evans, B. J., Grant, B. R., Grant, P. R., Hallgrímsson, B., Humphreys, R., Jolly, C. J., Malukiewicz, J., Nidiffer, M. D., Percival, C. J., Ritzman, T., Roos, C., Roseman, C. C., Schroeder, L., Smith, F. H., Warren, K., Wayne, R., Zinner, D. 2019. Hybridization in human evolution: insights from other organisms. *Evolutionary Anthropology* 28:189–209.
11. Baiz, M. D., Tucker, P. M., **Cortés-Ortiz, L.** 2019. Genome-wide signatures of divergence in allopatry and reinforcement in sympatry for loci associated with reproductive isolation in a primate hybrid zone. *Molecular Ecology* 28:1056–1069.
12. Ackermann, R. R., Arnold, M. L., Cahill, J. A., **Cortés-Ortiz, L.**, Evans, B. J., Grant, B. R., Grant, P. R., Hallgrímsson, B., Humphreys, R., Jolly, C. J., Malukiewicz, J., Nidiffer, M. D., Percival, C. J., Ritzman, T., Roos, C., Roseman, C. C., Schroeder, L., Smith, F. H., Warren, K., Wayne, R., Zinner, D. 2018. Hybridization in human evolution: insights from other organisms. *AfricArXiv Preprints*, Preprint DOI 10.31730/osf.io/y3bp7
13. Kitchen, D. M., **Cortés-Ortiz, L.**, Dias, P. A. D., Canales-Espinosa, D., Bergman, T. J. 2018. *Alouatta pigra* males ignore *A. palliata* loud calls: a case of failed rival recognition? *American Journal of Physical Anthropology* 166:433–441.
14. **Cortés-Ortiz, L.** 2017. Hybridization and hybrid zones. In: *International Encyclopedia of Primatology*, edited by Agustin Fuentes, Wiley Blackwell Publishers.
15. Bergman, T. J., **Cortés-Ortiz, L.**, Dias, P.A.D., Ho, L., Adams, D., Canales-Espinosa, D., Kitchen, D. M. 2016. Striking differences in the loud calls of howler monkey sister species (*Alouatta pigra* and *A. palliata*). *American Journal of Primatology*, 78:755–766.
16. Nidiffer, M. D., **Cortés-Ortiz, L.** 2015. Intragroup genetic relatedness in two howler monkey species (*Alouatta pigra* and *A. palliata*): Implications for understanding social systems and dispersal. *American Journal of Primatology*, 77:1333–1345.
17. **Cortés-Ortiz, L.**, Aguiar, L., Agostini, I., Kelaita, M. A., Silva, F. E., Bicca-Marques, J. C. 2015. Hybridization in howler monkeys: Current understanding and future directions. In: Kowalewski, M.K., Garber, P.A., Cortés-Ortiz, L., Urbani, B., Youlatos, D. (eds.). *Howler Monkeys: Adaptive Radiation, Systematics, and Morphology*. *Developments in Primatology: Progress and Prospects*. Springer, New York. Pp. 107–131.

18. **Cortés-Ortiz, L.**, Rylands, A. B., Mittermeier, R. 2015. The taxonomy of howler monkeys: integrating old and new knowledge from morphological and genetic studies. In: Kowalewski, M. K., Garber, P. A., Cortés-Ortiz, L., Urbani, B., Youlatos, D. (eds.). *Howler Monkeys: Adaptive Radiation, Systematics, and Morphology*. Developments in Primatology: Progress and Prospects. Springer, New York. Pp. 55–84.
19. Lynch Alfaro, J. W., **Cortés-Ortiz, L.**, Di Fiore, A., Boubli, J. P. 2015. Comparative biogeography of Neotropical primates: integrating molecular, morphological, paleontological, and paleogeographic evidence. *Molecular Phylogenetics and Evolution*, 82:518–529.
20. Morales-Jiménez, A. L., **Cortés-Ortiz, L.**, Di Fiore, A. 2015. Phylogenetic relationships of Mesoamerican spider monkeys (*Ateles geoffroyi*): Molecular evidence suggests the need for a revised taxonomy. *Molecular Phylogenetics and Evolution*, 82:484–494.
21. Di Fiore, A., Chaves, P. B. M. A.; Cornejo, F. M., Schmitt, C. A., Shanee, S., **Cortés-Ortiz, L.**, Fagundes, V., Roos, C., Pacheco, V. 2015. The rise and fall of a genus: Complete mtDNA genomes shed light on the phylogenetic position of yellow-tailed woolly monkeys, *Lagothrix flavicauda*, and on the evolutionary history of the family Atelidae (Primates: Platyrrhini). *Molecular Phylogenetics and Evolution*, 82:495–510.
22. Yildirim, S., Yeoman, J. C., Janga, S. C., Thomas, S. M., Ho, M., Leigh, S. R., **Primate Microbiome Consortium***, White, B. A., Wilson, B. A., Stumpf, R. M. 2014. Primate vaginal microbiomes exhibit species specificity without universal *Lactobacillus* dominance. *The ISME Journal* 1–14. ***Cortés-Ortiz, L.** is a member of the Primate Microbiome Consortium.
23. Ho, L., **Cortés-Ortiz, L.**, Dias, P. A., Canales-Espinosa, D., Kitchen, D. M., Bergman, T. J. 2014. Effect of ancestry on behavioral variation in two species of howler monkeys (*Alouatta pigra* and *A. palliata*) and their hybrids. *American Journal of Primatology* 76 (9): 855–867.
24. Dunn, J. C., Shedden-González, A., Cristóbal-Azkarate, J., **Cortés-Ortiz, L.**, Rodríguez-Luna, E., Knapp, L. 2013. Limited genetic diversity in the critically endangered Mexican howler monkey (*Alouatta palliata mexicana*) in the Selva Zoque, Mexico. *Primates*. DOI 10.1007/s10329-013-0399-6
25. Dias P. A. D., Alvarado-Serrano D., Rangel-Negrín A., Canales-Espinosa, D., **Cortés-Ortiz, L.** 2013. Landscape attributes affecting the natural hybridization of Mexican howler monkeys. *Primates in Fragments II*. Marsh. L., Chapman, C. (eds.). Springer, New York. Pp. 423–435.
26. Kelaita, M. and **Cortés-Ortiz, L.** 2013. Morphological variation of genetically-confirmed *Alouatta pigra* x *A. palliata* hybrids from a natural hybrid zone in Tabasco, Mexico. *American Journal of Physical Anthropology* 150:223–234.
27. Roviroso-Hernández, M. J., **Cortés-Ortiz, L.**, García-Orduña, F., Guzmán-Gómez, D., López-Monteon, A., Caba, M., Ramos-Ligonio, A. 2013. Seroprevalence of *Trypanosoma cruzi* and *Leishmania mexicana* in free-ranging howler monkeys in southeastern Mexico. *American Journal of Primatology* 75:161–169
28. Kelaita, M., Dias, P. A. D., Aguilar-Cucurachi, M. S., Canales-Espinosa, D., **Cortés-Ortiz, L.** 2011. Impact of intra-sexual selection on sexual dimorphism and testes

- size in the Mexican howler monkeys *Alouatta palliata* and *A. pigra*. *America Journal of Physical Anthropology*. 146(2): 179–187.
29. **Cortés-Ortiz, L.**, Mondragón E., Cabotage, J. 2010. Isolation and characterization of microsatellite loci for the study of Mexican howler monkeys, their natural hybrids, and other Neotropical primates. *Conservation Genetics Resources*. 2: 21–26.
 30. **Cortés-Ortiz, L.** 2009. Molecular phylogenetics of Callitrichinae with emphasis on marmosets and *Callimico*. In: *The Smallest Anthropoids: The Marmoset/Callimico Radiation*. Davis, L. C., Ford, S. M. and Porter, L. M. (eds.) *Developments in Primatology: Progress and Prospects*, Series editor Tuttle, R. A. Kluwer Academic Press. New York. Pp. 3–24.
 31. Mittermeier, R. A., Wallis, J., Rylands, A. B., Ganzhorn, J. U., Oates, J. F., Williamson, E. A., Palacios, E., Heymann, E. W., Kierulff, M. C. M., Long, Y., Supriatna, J., Roos, C., Walker, S., **Cortés-Ortiz, L.**, Schwitzer, C., Nash S. D. (illust). 2009. Primates in peril: the world's 25 most endangered primates 2008–2010. *Primate Conservation*. 24: 1–57.
 32. Steinberg, E. R., **Cortés-Ortiz, L.**, Nieves, M., Bolzán, A. D., García-Orduña, F., Hermida-Lagunes, J., Canales-Espinosa, D. and Mudry, M. D. 2008. The karyotype of *Alouatta pigra* (Primates: Platyrrhini): mitotic and meiotic analyses. *Cytogenetics and Genome Research*, 122: 103–109.
 33. **Cortés-Ortiz, L.**, Duda, T. F., Canales-Espinosa, D., García-Orduña, F. Rodríguez-Luna, E. and Bermingham, E. 2007. Hybridization in Large-Bodied New World Primates. *Genetics* 176: 2421–2425.
 34. Rylands, A. B., Groves, C., Mittermeier, R., **Cortés-Ortiz, L.** and Hines, J. J. 2006. Taxonomy of Mesoamerican Primates. In: *New Perspectives in the Study of Mesoamerican Primates: Distribution, Ecology, Behavior and Conservation*. Estrada, A., Garber, P., Pavelka, M., and Luecke, L. (eds.). *Developments in Primatology: Progress and Prospects*, Series editor Tuttle, R. A. Kluwer Academic Press. New York. Pp. 29–51.
 35. Webb, D. M., **Cortés-Ortiz, L.**, and Zhang, J. 2004. Genetic evidence for the coexistence of pheromone perception and full trichromatic vision in howler monkeys. *Molecular Biology and Evolution*, 21(4): 697–704.
 36. Ascunce, M. S., **Cortés-Ortiz, L.**, and Mudry, M. D. 2003. The mitochondrial control region of the black howler monkey, *Alouatta caraya* (Primates, Platyrrhini), and the development of new primers. *Molecular Ecology Notes*, 3(3): 372 – 375.
 37. **Cortés-Ortiz, L.**, Bermingham, E; Rico, C.; Rodríguez-Luna, E.; Ruiz, M. and Sampaio, I. 2003. Molecular systematics and biogeography of the Neotropical monkey genus, *Alouatta*. *Molecular Phylogenetics and Evolution* 26(1):64–81.
 38. Jones, C. B. and **Cortés-Ortiz, L.** 1998. Facultative Polyandry in the howling monkey (*Alouatta palliata*): Carpenter was correct. *Boletín Primatológico Latinoamericano*, 7(1):1–7.
 39. Rodríguez-Luna, E. and **Cortés-Ortiz, L.** 1995. Consideraciones en relación a la translocación de un grupo de monos aulladores (*Alouatta palliata*). In: Rodríguez-Luna, E.; Cortés-Ortiz, L. and J. Martínez-Contreras. (Editors) *Estudios Primatológicos en México. Vol. II*. Biblioteca de la Universidad Veracruzana. Xalapa, Veracruz, Mexico. Pp. 81–86.

40. **Cortés-Ortiz, L.**, Rodríguez-Luna, E., Martínez-Morales, M. and Carrera-Sánchez, E. 1994. Parámetros demográficos y reproductivos de un grupo de monos aulladores en semilibertad. *La Ciencia y El Hombre*, 18:151-166.
41. Rylands, A., Rodríguez-Luna, E. and **Cortés-Ortiz, L.** 1996/1997. Neotropical primate conservation-The species and the IUCN/SSC Primate Specialist Group network. *Primate Conservation*, (17): 46-69.
42. Rodríguez-Luna, E., **Cortés-Ortiz, L.**, Mittermeier, R. A., Rylands, A., Wong-Reyes, G., Carrillo, E., Matamoros, Y., Núñez, F. and Motta-Gill, J. 1996. Hacia un Plan de Acción para los Primates Mesoamericanos. *Neotropical Primates*, 4(supplement): 119-133.
43. Rodríguez-Luna, E., **Cortés-Ortiz, L.**, Ellis, S. and McCance, E. 1996. Taller de Conservación, Análisis y Manejo Planificado para Primates Mexicanos. *Neotropical Primates*, 4(supplement):113-118.
44. **Cortés-Ortiz, L.**, Rodríguez-Luna, E. and Miller, P. 1996. Análisis de Viabilidad de Poblaciones y de Hábitat para *Alouatta palliata mexicana*. *Neotropical Primates*, 4(supplement):134-142.
45. **Cortés-Ortiz, L.** and Martínez-Morales, M. 1996. Consideraciones sobre la organización social y el sistema de apareamiento de un grupo de monos aulladores (*Alouatta palliata mexicana*). *Neotropical Primates*, 4(2):59-61.
46. Rodríguez-Luna, E., **Cortés-Ortiz, L.**, and Canales-Espinosa, D. 1996. El tráfico de monos araña en México: el estudio de un caso. *Neotropical Primates*, 4(1):8-13.
47. Rodríguez-Luna, E. and **Cortés-Ortiz, L.** 1995. CAMP para primates mexicanos y PHVA para *Alouatta palliata mexicana*. *Neotropical Primates*, 3(2):49-51.
48. Rodríguez-Luna, E. and **Cortés-Ortiz, L.** 1994. Translocación y seguimiento de un grupo de monos *Alouatta palliata* liberado en una isla (1988-1994). *Neotropical Primates*, 2(2):1-5.

Manuscripts in preparation(*graduate student **undergraduate student)

1. Melo-Carrillo, A.*, Dunn, J. C., **Cortés-Ortiz, L.** (in review) Low genetic diversity across the range of the critically endangered Mexican howler monkey (*Alouatta palliata mexicana*).
2. **Cortés-Ortiz, L.** (in prep) Phylogenetic and phylogeographic analyses support two waves of colonization for the origin of Mesoamerican howler monkeys.
3. Campbell, S.*, **Cortés-Ortiz, L.** (in prep) Diversity and evolution of oxytocin (OXT) and oxytocin receptor (OXTR) genes in the neotropical primate families Atelidae and Cebidae.
4. Ocloo, X.*, Dunn, J., Cornejo, F.*, Redondo, S.*, **Cortés-Ortiz, L.** (in prep) A re-examination of the host-specificity hypothesis in the howler monkey (*Alouatta*)-Pinworm (*Trypanoxyuris*) system.
5. Amann, N.**, Vlasava, N., **Cortés-Ortiz, L.**, Michner, D. (in prep) Phylogenetic relationships and genetic diversity among *Paeonia* species and cultivars based on chloroplast DNA.
6. Vlasava, N., Michener, D. C., Kharytonchyk, S., **Cortés-Ortiz, L.** (in prep) First molecular confirmation of Tobacco Rattle Virus on *Paeonia lactiflora* in Michigan and co-infection with Cycas Necrotic Stunt Virus.

7. Carneiro, J., **Cortés-Ortiz, L.**, Sampaio, I. Schnider, H. (in prep) Testing hypotheses of phylogenetic relationships between Neotropical primate families.

Non-refereed publications

1. Kowalewski, M.M., Garber, P.A., **Cortés-Ortiz, L.**, Urbani, B., Youlatos, D. 2015. Why is it important to continue studying the anatomy, physiology, sensory ecology, and evolution of howler monkeys? In: Kowalewski, M.K., Garber, P.A., Cortés-Ortiz, L., Urbani, B., Youlatos, D. *Howler Monkeys: Adaptive Radiation, Systematics, and Morphology*. Developments in Primatology: Progress and Prospects. Springer, New York
2. Youlatos, D., Kowalewski, M., Garber, P. A., **Cortés-Ortiz, L.** 2015. New challenges in the study of howler monkey anatomy, physiology, sensory ecology, and evolution: where we are and where we need to go? In: Kowalewski, M. K., Garber, P. A., Cortés-Ortiz, L., Urbani, B., Youlatos, D. *Howler Monkeys: Adaptive Radiation, Systematics, and Morphology*. Developments in Primatology: Progress and Prospects. Springer, New York
3. Kowalewski, M. M., Garber, P. A., **Cortés-Ortiz, L.**, Urbani, B., Youlatos, D. 2015. Why is it important to continue studying the behavioral ecology and conservation management of howler monkeys? In: Kowalewski, M. K., Garber, P. A., Cortés-Ortiz, L., Urbani, B., Youlatos, D. *Howler Monkeys: Behavior, Ecology, and Conservation*. Developments in Primatology: Progress and Prospects. Springer, New York. Pp. 3-17.
4. **Cortés-Ortiz, L.** 2011. Genetics and conservation of Mexican howler monkeys. In: La Conservación de Primates en México. Dias P. A. D., Rangel-Negrín A., Canales-Espinosa, D. (eds.). Consejo Veracruzano de Investigación Científica y Desarrollo Tecnológico. Mexico. Pp. 172–188. (Invited chapter in Spanish)
5. Palacios, E., **Cortés-Ortiz, L.**, Bicca-Marques, J. C., Heymann, E. W., Alfaro, J.L., Veiga, L. M. (2008) Editorial. *Neotropical Primates* 15:39.
6. **Cortés-Ortiz, L.** and Rodríguez-Luna, E. 1997. Mono araña (*Ateles geoffroyi*). In: Dirzo, R.; González-Soriano, E. and Vogt, R.C. (Editors). *Historia Natural de Los Tuxtlas*. CONABIO y UNAM. Mexico, D.F. Pp. 616-622.
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8. Rodríguez-Luna, E. and **Cortés-Ortiz, L.** 1995. Talleres para evaluar el estado de los primates mexicanos (CAMP y PHVA). *NoZootros*, 3(3): 9-10.
9. Rodríguez-Luna, E., **Cortés-Ortiz, L.** and J. Martínez-Contreras. 1995. Prologue. In: Rodríguez-Luna, E., Cortés-Ortiz, L. and J. Martínez-Contreras. (Editors) *Estudios Primatológicos en México. Vol. II*. Biblioteca de la Universidad Veracruzana. Xalapa, Veracruz, Mexico. Pp. 1-4.
10. **Cortés-Ortiz, L.** and E. Rodríguez-Luna. 1994. Criterios para evaluar especies amenazadas. *NoZootros*, 2(1): 9-11.

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1. Urbani, B., Kowalewski, M., da Cunha, R.G.T., de la Torre S., and **Cortés-Ortiz, L.** 2018. *La Primatología en Latinoamérica 2 / A Primatologia na America Latina 2*.

- Vol. 1. Instituto Venezolano de Investigaciones Científicas, Caracas, Venezuela. ISBN 978-980-261-185-0
2. Urbani, B., Kowalewski, M., da Cunha, R.G.T., de la Torre S., and **Cortés-Ortiz, L.** 2018. *La Primatología en Latinoamérica 2 / A Primatologia na America Latina 2*. Vol. 2. Instituto Venezolano de Investigaciones Científicas, Caracas, Venezuela. ISBN 978-980-261-186-7
 3. Kowalewski, M., Garber, P. A., **Cortés-Ortiz, L.** Urbani, B. and Youlatos, D. (eds.). 2015. *Howler Monkeys: Adaptive Radiation, Systematics, and Morphology*. Developments in Primatology: Progress and Prospects. Springer, New York. ISBN 978-1-4939-1956-7 (eBook ISBN 978-1-4939-1957-4)
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 5. Rodríguez-Luna, E., **Cortés-Ortiz, L.** and Martínez-Contreras, J. (eds.). 1995. *Estudios Primatológicos en México, Vol. II*. Biblioteca Universidad Veracruzana. 191 pp. ISBN 968-834-352-8

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1. National Academies of Sciences, Engineering, and Medicine. 2020. Evaluation of Applications to Carry Out Research to Determine the Taxonomy of Wild Canids in the Southeastern United States. Washington, DC: The National Academies Press. <https://doi.org/10.17226/25661>. (Committee: Travis, J., Allendorf, F.W., **Cortés-Ortiz, L.**, Culver, M., Genereux, D., Harris, K., Ostrander, E. A., Polly, P. D.)
2. Mittermeier, R. A., Wallis, J., Rylands, A. B., Ganzhorn, J. U., Oates, J. F., Williamson, E. A., Palacios, E., Heyman, E. W., Kierluf, M. C. M., Yongcheng, L., Supriatna, J., Roos, C. Walker, S., **Cortés-Ortiz, L.**, Schwitzer, C. (eds.) 2009. *Primates in Peril. The World's 25 Most Endangered Primates 2008-2010*. IUCN/SSC Primate Specialist Group (PSG), International Primatological Society (IPS), and Conservation International (CI), Arlington, VA. 84pp.
3. Rodríguez-Luna E., Solórzano-García B., Shedden A., Rangel-Negrín A., Dias P.A.D., Cristóbal-Azkárate J., **Cortés-Ortiz L.**, Dunn J.C., Domingo-Balcells C., Sánchez S., Vea-Baró J., Cornejo J. 2009. Conservation Assessment and Management Plan for Mexican Primates 2006. Workshop report. CBSG/IUCN & Universidad Veracruzana, Xalapa, Veracruz, Mexico. 142pp. (Spanish version), 130 pp. (English version).
4. Rodríguez-Luna, E., **Cortés-Ortiz, L.**, Mittermeier, R. and Rylands, A. 1996. *Plan de Acción para los Primates Mesoamericanos*. Primate Specialist Group, Neotropical Section, SSC/IUCN. Xalapa, Veracruz, Mexico. 102 pp. + 19pp Appendix.
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Video-documentary: *Guardianes de los Saraguatos (Howler monkey guardians*, Spanish with English subtitles). 2019. XBALAM multimedia, Universidad Veracruzana. Aguilar Cucurachi, M. S., Canales-Espinosa, D., Carvajal Haro, C., Xaca Adendaño, I., **Cortés-Ortiz, L.**

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Proceedings of Symposia and Congresses (published abstracts only)

1. **Cortés-Ortiz, L.** 2020. Phylogenetic and phylogeographic analyses support two waves of colonization for the origin of Mesoamerican howler monkeys. Joint Congress of the International Primatological Society and the Latin American Primatological Society, to be held August 16-22, 2020 in Quito, Ecuador. Abstract submitted.
2. Melo-Carrillo, A., **Cortés-Ortiz, L.** 2020. Increased genetic variation in the MHC DRB exon 2 of admixed howler monkey individuals (*A. palliata* x *A. pigra*). Joint Congress of the International Primatological Society and the Latin American Primatological Society, to be held August 16-22, 2020 in Quito, Ecuador. Abstract submitted.
3. Hirst, M. A., Rodas-Martínez, A. Z., Baiz, M. D., **Cortés-Ortiz, L.** 2020. Sperm morphological differences in two species of wild howler monkeys (*Alouatta palliata* x *A. pigra*) and their hybrids. Joint Congress of the International Primatological Society and the Latin American Primatological Society, to be held August 16-22, 2020 in Quito, Ecuador. Abstract submitted.
4. Baiz, M. D., Tucker, P. M., Mueller, J. L., **Cortés-Ortiz, L.** 2020. X-linked signature of reproductive isolation in humans is mirrored in a howler monkey hybrid zone. Joint Congress of the International Primatological Society and the Latin American Primatological Society, to be held August 16-22, 2020 in Quito, Ecuador. Abstract submitted.
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6. **Cortés-Ortiz, L.** What have we learned from studying primate hybrid zones? (Featured presentation) 27th Congress of the International Primatological Society. August 19-25, 2018. Nairobi, Kenya. Abstract # 13268
7. **Cortés-Ortiz, L.**, Marchán-Rivadeneira, M. R., Boubli, J., Lynch-Alfaro, J., Redondo, S., Cornejo, F. Advancing our understanding of the phylogenetic relationships of howler monkeys. 27th Congress of the International Primatological Society. August 19-25, 2018. Nairobi, Kenya. Abstract # 12959
8. Choi, M., Nidiffer, M. D., **Cortés-Ortiz, L.** 2018. Male-specific reproductive gene sequence homology in *Alouatta palliata* and *Homo sapiens*. 27th Congress of the International Primatological Society. August 19-25, 2018. Nairobi, Kenya. Abstract # 12883

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11. Nidiffer, M. D., **Cortés-Ortiz, L.** 2018. Genomic signatures of reproductive isolation driven by divergence in allopatry and sympatry in a howler monkey hybrid zone. 27th Congress of the International Primatological Society. August 19-25, 2018. Nairobi, Kenya. Abstract # 12386
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14. Nidiffer, M. D., **Cortés-Ortiz, L.**, Tucker, P.K., Mueller J. 2017. Identifying a neo-sex chromosome via deep resequencing in a hybridizing primate species. 97th Annual Meeting of the American Society of Mammalogists. June 20-24, 2017. Moscow, Idaho.
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 25. Cornejo, F. M., Pacheco, V. R., **Cortés-Ortiz, L.** 2015. Phylogenetic relationships of night monkeys (*Aotus*): Evidence from pelage coloration and molecular data. The 84th Annual Meeting of the American Association of Physical Anthropologists. March 25 – 28, 2015. St. Louis, Mo.
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