#### CIRRICULUM VITAE

# -MARCELLA D. BAIZ-

PhD candidate, Dept. Ecology & Evolutionary Biology, University of Michigan 2020F BSB • 1105 N. University Ave • Ann Arbor, MI 48109-1085 Email: baizm@umich.edu • Cell: (517) 262-2906

EDUCATION	DhD Faalagy & Evalutionary Dialogy University of Michigan Ann
2013 to present	<b>PhD, Ecology &amp; Evolutionary Biology</b> , University of Michigan, Ann Arbor, MI. Co-advisors: Lilliana Cortés Ortiz and Priscilla Tucker
2013	MS, Ecology & Evolutionary Biology, University of Michigan, Ann Arbor, MI. Co-advisors: Lilliana Cortés Ortiz and Elizabeth Tibbetts
2010	BS, Biology, Grand Valley State University, Allendale, MI
AWARDS AND FEI	LLOWSHIPS
2018	Science Communication Fellow, University of Michigan Museum of Natural History
2014-2016	Genetics Training Grant Fellowship, University of Michigan
2013-present	Rackham Merit Fellowship, University of Michigan
2011-2013	Frontiers Master's Program Fellowship, University of Michigan
2010	Outstanding Graduating Biology Major Award, Grand Valley State
	University
<u>GRANTS</u>	
2016	Edwards C. Walker Scholarship, \$2,153.61, University of Michigan,
2010	Museum of Zoology
2015	Grant in Aid of Research, \$1,500, American Society of Mammalogists
2015	Dept. Ecology & Evolutionary Biology Research Block Grant, \$2,648,
	University of Michigan
2014	Rackham Graduate Student Research Grant, \$1,500, University of Michigan
2014	Dept. Ecology & Evolutionary Biology Research Block Grant, \$1,670,
	University of Michigan
2012	Dept. Ecology & Evolutionary Biology Research Block Grant, \$850,
	University of Michigan
ACADEMIC APPO	INTMENTS
Research	
2016	Graduate Student Lab Manager, Genomic Diversity Lab,
	University of Michigan,
2015	Graduate Student Curatorial Assistant, Museum of Zoology, Bird
<i>m</i> 1.	Division, University of Michigan

Pioneer High School (2018), Ann Arbor, MI

Scientist Ambassador, Michigan DNA Day, Huron High School (2017),

*Teaching* 2017, 2018

2017-2018 Undergraduate Research Opportunity (UROP) mentor, University of

Michigan

2011-2013 **Graduate Student Instructor,** University of Michigan

Courses taught: Intro to Ecology, Evolution, and Genetics (BIO 171),

Evolution (EEB 390)

2005-2007 **Student Tutor**, Jackson College

### **RESEARCH EXPERIENCE**

2013-present **Dissertation Research**, University of Michigan, Dept. Ecology &

**Evolutionary Biology** 

Title: Genes, chromosomes, and speciation: The genetic architecture of

speciation in a primate hybrid zone.

My dissertation research uses genome-wide data to detect signatures of

reproductive isolation between two howler monkey species.

2011-2013 Thesis Research, University of Michigan, Dept. Ecology & Evolutionary

Biology

Title: Intragroup genetic relatedness in two howler monkey species (Alouatta pigra and A. palliata): Implications for understanding social

systems and dispersal.

My thesis research used genetic data to quantify and compare genetic relatedness within social groups of two primate species with different

social systems and patterns of dispersal.

2009-2010 Undergraduate research, Grand Valley State University

My research focused on the ecological factors affecting parental nest

defense behavior and egg mass in tree swallows.

#### **PUBLICATIONS**

2018 **Baiz, M. D.**, Cortés-Ortiz L., Tucker, P. K. Multiple forms of selection

shape reproductive isolation in a primate hybrid zone. *Molecular Ecology*.

Accepted.

Ackermann, R.R., Arnold, M. L., **Baiz, M. D.**, Cahill, J.A., Cortés-Ortiz,

L., Evans, B., Grant, P. R., Grant, B. R., Hallgrimsson, B., Humphreys, R.,

Jolly, C. J., Malukiewicz, J., Percival, C. J., Ritzman, T., Roos, C.,

Roseman, C. C., Schroeder, L., Smith, F. H., Warren, K., Wayne, R., and

Zinner, D. Hybridization in human evolution: insights from other

organisms. Evolutionary Anthropology. Submitted.

https://doi.org/10.31730/osf.io/y3bp7 (pre-print)

2018 Cortés-Ortiz L.\*, **Nidiffer M. D**.\*<sup>†</sup>, Hermida-Lagunes J., Garcia-Orduña

F., Rangel-Negrín A., Kitchen D. M., Bergman T. B., Canales-Espinosa D., Dias P. A. D. Reduced introgression of sex chromosome markers in the Mexican howler monkey (*Alouatta palliata* x *A. pigra*) hybrid zone. *International Journal of Primatology*. https://doi.org/10.1007/s10764-018-

0056-4

\*These authors contributed equally to this paper

†Please note that I am in the legal process of changing my last name from Nidiffer to Baiz

Journal of Primatology 77:1333-1345. https://doi.org/10.1002/ajp.22487

#### **INVITED PRESENTATIONS**

2018	The genetic architecture of speciation in a primate hybrid zone. Oral
2010	Presentation: <b>Baiz, M. D.</b> Genetics Training Grant Program Senior
	Student Seminar. University of Michigan, Ann Arbor, MI, USA
2018	Genomic signatures of reproductive isolation are driven by divergence in
2010	allopatry and sympatry in a howler monkey hybrid zone. Oral
	presentation: <b>Nidiffer, M. D.</b> <sup>†</sup> , Cortés-Ortiz, L. Symposium "Primate
	genetics and genomics". International Primatological Society Biennial
	Meeting, Nairobi, Kenya.
2017	Genome-wide admixture, introgression, and reproductive isolation in a
2017	natural primate hybrid zone. Oral presentation: Nidiffer, M. D. Genetics
	Training Grant Program Retreat, Ann Arbor, MI, USA
2016	Reproductive isolation and genome-wide introgression in a howler
2010	monkey hybrid zone. Oral presentation: Nidiffer, M. D. Genetics
	Training Grant Program Senior Student Seminar. University of Michigan,
	Ann Arbor, MI, USA
2016	Reproductive isolation and genome-wide introgression in a howler
2010	monkey hybrid zone. Oral presentation: Nidiffer, M. D. <sup>†</sup> , Cortés-Ortiz, L.
	Symposium "Hybridization and natural hybrid zones in primates."
	International Primatological Society Biennial Meeting, Chicago, IL, USA.

# **CONTRIBUTED PRESENTATIONS**

2018	Towards an understanding of the role of hybridization in promoting diversity of immune-related-genes (MHC) in a howler monkey hybrid
	<b>zone.</b> Oral presentation: Melo-Carillo, A., <b>Baiz, M. D</b> ., Cortês-Ortiz, L.
	Midwest Primate Interest Group Annual Meeting, Bloomington, IN, USA
2018	Male-specific reproductive gene sequence homology in Alouatta
	palliata and Homo sapiens. Poster: Choi, M., Nidiffer, M. D. <sup>†</sup> , Cortés-
	Ortiz, L. International Primatological Society Biennial Meeting, Nairobi,
	Kenya
2018	MHC variation in sister howler monkey species (Alouatta palliata and
	<b>A. pigra).</b> Poster: Melo-Carillo, A., <b>Nidiffer, M.D.</b> <sup>†</sup> , Cortés-Ortiz, L.
	International Primatological Society Biennial Meeting, Nairobi, Kenya
2018	A phylogenetic analysis of New World Monkeys using the nuclear and
	mitochondrial genomes. Poster: Al Bayati, M., Nidiffer, M. D. <sup>†</sup>
	Undergraduate Research Symposium, Ann Arbor, MI, USA
2017	Genome-wide admixture, differential introgression, and signatures of
	reproductive isolation in a howler monkey hybrid zone. Oral
	presentation: <b>Nidiffer, M. D.</b> †, Cortés-Ortiz, L. Evolution Annual
	Meeting, Portland, OR, USA
2017	Identifying a neo-sex chromosome via deep resequencing in a
	hybridizing primate species. Poster: Nidiffer, M. D. <sup>†</sup> , Cortés-Ortiz, L.,

<sup>&</sup>lt;sup>†</sup>Please note that I am in the legal process of changing my last name from Nidiffer to Baiz

	Tucker, P. K., Mueller, J. L. Evolution Annual Meeting, Portland, OR,
	USA
2017	Identifying a neo-sex chromosome via deep resequencing in a
	hybridizing primate species. Poster: Nidiffer, M. D. <sup>†</sup> , Cortés-Ortiz, L.,
	Tucker, P. K., Mueller, J. L. American Society of Mammalogists Annual
	Meeting, Moscow, ID, USA
2014	Genomic clines and admixture in a natural primate hybrid zone. Poster:
	Baiz, M. D., Cortés-Ortiz, L. Evolution Annual Meeting, Raleigh, NC,
	USA
2012	Within-group female relatedness in two species of howler monkeys.
	Poster: Baiz, M. D., Cortés-Ortiz, L. International Primatological Society
	Biennial Meeting, Cancún, QR, MX

# **MANUSCRIPT REVIEWER**

Ethology (2012), International Journal of Primatology (2017, 2018)

# **PROFESSIONAL SOCIETIES**

2015-present	American Society of Mammalogists
2015-2016	American Genetic Association
2014-present	American Society of Naturalists
2012-present	International Primatological Society

# **OUTREACH AND MENTORING**

2018	Capstone group leader, Women+ Excelling More in Math Engineering
	and Science (FEMMES), University of Michigan
2018	Scientist Spotlight, Palmer Commons, Ann Arbor, MI
2018	Scientist Spotlight, Forsythe Middle School, Ann Arbor, MI
2017	Capstone group leader, Females Excelling More in Math Engineering
	and Science (FEMMES), University of Michigan
2014-2015	Breeding Bird Surveyor, Washtenaw County Parks and Recreation, Ann
	Arbor, MI
2014-2015	Graduate Student Mentor (EEBigSib), University of Michigan
2013	SEEDS BioBlitz group leader (rapid biodiverstiy survey), Belle Isle,
	Detroit, MI

<sup>&</sup>lt;sup>†</sup>Please note that I am in the legal process of changing my last name from Nidiffer to Baiz