

Chase L. Nuñez

A329 Levine Sciences Research Center
Nicholas School of the Environment
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EDUCATION:

- 2014 - 19 **Duke University**
Ph.D. Ecology
Dissertation: *Forecasted Afrotropical forest responses to climate change diverge from Neotropical predictions with consequences for biodiversity conservation and carbon storage*
Advisors: James S. Clark and John R. Poulsen
- 2009 - 13 **University of California, Davis**
A.B. Evolutionary Anthropology, *summa cum laude*
A.B. Biological Psychology, *cum laude*
Thesis: *A Bayesian joint model of growth and survival for assessing the consequences of differential maternal investment in Macaca mulatta*
Advisors: Katie Hinde and Lynne A. Isbell

PROFESSIONAL POSITIONS:

- 2016 - 19 **Principal Investigator**
Afrotropical Forest Responses to Climate Change (NSF GRF-1106401)
Durham, North Carolina (May 2016 – Jul. 2019)
- 2015 - 16 **Research Associate**
Dr. Thomas Mitchell-Olds, Duke University
Consequences of Complex Trait Variation (NIH-2R01GM086496-05A1)
Durham, North Carolina (May 2015 – May 2016)
- 2013 - 14 **Field Manager**
Dr. Marina Cords, Columbia University
Life History and Ecology of *C. mitis stuhlmanni* (NSF BCS-1028471)
Kakamega Forest, Kenya (Jun. 2013 – Jun. 2014)
- 2012 - 13 **Staff Research Assistant**
Dr. Karen Bales, University of California, Davis
Long-term Effects of Chronic Intranasal Oxytocin (NICHD 1R01HD071998-01A1)
The Neurobiology of Social Bonding (NICHD 5R01HD053555-04)
Davis, California (Aug. 2012 – Jun. 2013)
- 2011 - 13 **Staff Research Assistant**
Dr. Katie Hinde, Harvard University
Maternal Effects on Offspring Outcomes (NSF BCS-0921978)
Davis, California (Jun. 2011 – Mar. 2013)

PUBLICATIONS:

1. Nuñez CL, Grote MN, Wechsler MS, Allen-Blevins C, and Hinde KJ. *Offspring of Primiparous Mothers Do Not Experience Higher Mortality or Poorer Growth: Revisiting the Conventional Wisdom with Archival Records of Rhesus Macaques (Macaca mulatta)*. American Journal of Primatology. 2015. DOI:10.1002/ajp.22426.
2. Poulsen JR, Rosin C, Nuñez CL, *Meier A, Mills E, Koerner S, Blanchard E, Callejas J, Moore S, Sowers M. *The Ecological Consequences of Forest Elephant Decline for Afrotropical Forests*. Conservation Biology. 2018. DOI:10.1111/cobi.13035
3. Nuñez CL, Clark JS, Poulsen JR, Clark C, *Low-Intensity Logging and Hunting have Long-Term Effects on Seed Dispersal but not Fecundity in Afrotropical Forests*. Annals of Botany, Plants. 2018. DOI: 10.1093/aobpla/ply074
4. Clark JS, Nuñez CL, Tomasek B, *Food webs built on unreliable foundations: Masting and the movement, demographic storage, and diet breadth of consumers*, Accepted: Ecological Monographs.
5. Nuñez CL, Clark JS, Bachelot B, Dunn RR, Gelfand AE, Kays R, Schliep EM, Taylor-Rodriguez D, Tomasek B, *Precision forecasting of vulnerability, velocity, and community reorganization with climate*, in revision
6. Nuñez CL, *Froese G, Beirne C, *Meier A, Ossman M, *Dipenthal J, *McCarthy J, *Kim S, Poulsen J, *Stronger together: comparing and integrating camera trap, visual, and dung survey data for ecological inference in tropical forest mammal communities*, in review
7. Beirne C, Nuñez CL, Baldino M, *Kim S, Knorr J, Masseloux J, *Minich T, Poulsen JR, Rundel C, Wright JP, Jin K, Xiao A, Mbamy W, Obiang GN, Nkoghe T, *Estimation Of Gut Passage Times Of Wild, Free Roaming Forest Elephants*, in review

Completed projects being prepared for submission

8. Nuñez CL, Clark JS, Poulsen JR, Clark C, *Afrotropical Forest Communities More Sensitive to Human Disturbance than Climate*
9. Nuñez CL, Clark JS, Poulsen JR, Clark C, *Predicted Changes in Afrotropical Forest diverge from Neotropical predictions with consequences for biodiversity conservation and carbon storage*
10. *Meier A, Nuñez CL, *Froese G, Beirne C, Ossman M, *Dipenthal J, *McCarthy J, Kim S, Poulsen J, *Efficacy of Paraecologists in reporting bush meat consumption across villages in Gabon*
11. Poulsen JR, Nuñez CL, [...] *Novel Gut passage time in forest elephants alters seed distribution shadows in Gabon's Dense Tropical Forests*
12. Poulsen, JR, Nuñez CL, [...], *The Majestic Forests of Gabon, Estimating Carbon and Effect of Big Tree*
13. Tomasek B, Nuñez CL, [...], *Vegetative Trait Space in Europe Imply Outsized role of historical management*
14. Wang, J. Nuñez CL, Mitchell-Olds T, Mojica J, *Genome wide association of Drought tolerance in Boechera stricta*

• Indicates mentored students

AWARDS, FELLOWSHIPS & GRANTS:

2017 - 19	Mega-Gardeners of Tropical Forest: Modeling Seed Dispersal by Forest Elephants Bass Connections in Energy and Environment to J. Poulsen, with A. Gelfand, Justin Wright, et al. (\$50,000)
2017 - 19	Early Career Award National Geographic Society to Amelia Meier, with J. Okouyi, and S. Bourgeois (WW-190ER-17; \$4,839)
2014 - 19	Graduate Research Fellowship National Science Foundation (NSF GRF-1106401; \$96,000 + cost of education)
2014 - 18	Neil Williams Presidential Fellowship Duke University (\$77,000 + cost of education)
2013	Departmental Citations for Excellence, UC Davis
2013	Departmental Honors, UC Davis

2012, 13	Center for Student Involvement Grant, UC Davis
2012	Nominated to Phi Kappa Phi Honors Society
2010	Undergraduate Scholarship Award, UC Davis
2010	Academic Competiveness Grant, UC Davis
2009	International Order of Odd Fellows Scholarship
2009	Masonic Masters and Brethren Scholarship
2009	Phil Bocks Community Service Scholarship
2009	Northstar at Tahoe Environmental Stewardship Scholarship
2009	Tahoe Mountain Resorts Scholarship

SELECTED CONTRIBUTED TALKS AND ABSTRACTS:

2018	Nuñez CL , Poulsen JR, Clark CJ, and Clark JS; Effects of Hunting and Logging on Tree Fecundity and Seed Dispersal in Afrotropical Forests, <i>103rd Annual Meeting of the Ecological Society of America</i> , New Orleans, LA. August [Podium, Published Abstract]
2018	Clark JS, Nuñez CL , and Tomasek BJ; Spatio-temporal forecasting pulsed-resource masting and its implications for wildlife, <i>103rd Annual Meeting of the Ecological Society of America</i> , New Orleans, LA. August [Podium, Published Abstract]
2018	Tomasek BJ, Porté AJ, He F, Zimmermann NE, Nuñez CL , Domec JC, and Clark JS; Trait generality in two temperate forest regions: Do community weighted trait responses to environment translate between continents?, <i>103rd Annual Meeting of the Ecological Society of America</i> , New Orleans, LA. August [Podium, Published Abstract]
2017	Clark JS, Dunn R, Becheleot B, Gelfand A, Kays R, Nunez CL , Schliep E, Taylor D, Tomasek B. Sensitivity and Velocity of Community Reorganization Across NEON: Plants to Insects to Mammals Responding Jointly to Climate Change, <i>102nd Annual Meeting of the Ecological Society of America</i> , Portland, OR. August [Podium, Published Abstract]
2015	Nunez CL . Offspring of Primiparous Mothers Do Not Experience Higher Mortality or Poorer Growth: Revisiting the Conventional Wisdom with Archival Records of Rhesus Macaques (<i>Macaca mulatta</i>), <i>84th Annual Meeting of the American Association of Physical Anthropologists</i> , St. Louis, MO. March [Poster, Published Abstract]
2014	Nunez CL , Grote MN, Wechsler MS, and Hinde KJ. Sex and Birth Order Predict Juvenile Growth and Survival in Captive Rhesus Macaques (<i>Macaca mulatta</i>), <i>37th Meeting of the American Society of Primatologists</i> Decatur, GA. September [Podium, Published Abstract]

TEACHING AND MENTORING

Teaching

ENV. 710: *Applied Data Analysis for Environmental Science*. Required master's level statistics course. Weekly lecture and R coding labs. *Duke University*

Mentoring

2018 - 19	Jack Miklaucic, <i>NC School of Science and Math Internship Program [High School Student]</i>
2016 - 19	Taylor Minich, <i>NASA Adv. Information Systems Technology Program [Masters student]</i>
2016 - 19	Christopher Kilner, <i>NASA Adv. Information Systems Technology Program [PhD student]</i>
2016 - 19	Lane Scher, <i>NASA Adv. Information Systems Technology Program [PhD student]</i>
2016 - 18	Megan Ossman, <i>Community Wildlife Working Group [masters student]</i>
2016 - 18	Johanna Dipenthal, <i>Elephant Working Group [masters student]</i>
2016 - 17	James McCarthy, <i>Community Wildlife Working Group [masters student]</i>

Selected Community Outreach

2018	<i>Panel on Mentorship, 02/13/2019</i>
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2018 *Environmental Law Panel on Climate Policy, 07/02/2018*
 2018 *Discussion Forum with Ms. Bronwyn Llewellyn, USAID Environment Officer, 05/03/2018*
 2018 *Discussion Forum with Mr. Greg Andeck of Audubon, 22/03/2018*
 2017 *Community Lemur Centre Tour, 19/09/2017*
 2017 *Oosting Endowed Event on Ecological Implications of Disease, 12/04/2017*
 2016 *Discussion Forum with Dr. Andy Read from Vaquitas, 10/11/2016*
 2016 *Virunga and panel discussion, 25/10/16*
 2016 *Discussion Forum with Elizabeth Kalies of The Nature Conservancy, 20/10/2016*
 2016 *NC. Central Regional Science and Engineering Fair – Ask a scientist table, 07/10/2016*
 2016 *Nicholas School Earth Day, 22/04/2016*
 2016 *Volunteer Day at the Ellerbe Creek Watershed Association, 20/02/2016*
 2015 *Triangle Conservation Career Trek On, 04/11/2015*
 2015 *International Landscapes & Conservation, 14/10/2015*
 2015 *Social Innovation in Conservation, 02/10/2015*
 2015 *Sustainable Ecotourism Lecture with Kurt Holle of Rainforest Expeditions, 21/09/2015*

ACADEMIC SERVICE

2014 - 19 **PhD Chair**
 University Program in Ecology Executive Council
 Duke University

2015 - 19 **PhD Chair**
 Duke Conservation Society
 Duke University

2017 - 18 **Ecology PhD Recruitment Chair**
 University Program in Ecology
 Duke University

2017 - 18 **Henry J. Oosting Endowed Lecture Chair**
 University Program in Ecology
 Duke University

2016 - 17 **University Program in Ecology Elected Representative**
 Graduate and Professional Student Council
 Duke University

2015 **Duke Elected Representative**
 National Association of Graduate and Professional Students
 29th Annual National Congress
 University of Southern California