

Chase L. Nuñez

A329 Levine Sciences Research Center
Nicholas School of the Environment
Duke University, Durham, N.C. USA
chasenunez.com • +1-530-448-6817
chasenunez@gmail.com

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)
- 2011 - 12 **Project Research Assistant**
Dr. Brenda McCowan, UC Davis Veterinary Medicine
Agonism and Retaliation in Chimpanzees
Oakland, California (Mar. 2011 – Jan. 2012)

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. **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
5. Clark JS, **Nuñez CL**, Tomasek B, *Food webs built on unreliable foundations: Masting and the movement, demographic storage, and diet breadth of consumers*, in review

Completed manuscripts being prepared for submission

6. **Nuñez CL**, Clark JS, Poulsen JR, Clark C, *Afrotropical Forest Communities More Sensitive to Human Disturbance than Climate*
7. Beirne C, **Nuñez CL**, Froese G, 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*
8. **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*
9. Meier A, **Nuñez CL**, Froese G, Beirne C, Ossman M, Dipenthal J, McCarthy J, Kim S, Poulsen J, *Efficacy of Paraecologists in reporting bushmeat consumption across villages in Gabon*
10. Melissa Baldino, Chris Beirne, Seokmin Kim, Julia Knorr, Juliana Masseloux, Taylor Minich, **Chase L. Nuñez**, John R. Poulsen, Colin Rundel, Justin P. Wright, Karen Jin, Alina Xiao, Walter Mbamy, Guichard Ndzeng Obiang, Tanguy Nkoghe, *Estimation Of Gut Passage Times Of Wild, Free Roaming Forest Elephants*
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**

AWARDS, FELLOWSHIPS & GRANTS:

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| 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 **Chase L. Nuñez**, John R. Poulsen, Connie J. Clark, and James S. Clark; Effects of Hunting and Logging on Tree Fecundity and Seed Dispersal in Afrotropical Forests, *103rd Annual Meeting of the Ecological Society of America*, New Orleans, LA. August [Podium, Published Abstract]
- 2018 James S. Clark, **Chase L. Nuñez**, and Bradley J. Tomasek; Spatio-temporal forecasting pulsed-resource masting and its implications for wildlife, *103rd Annual Meeting of the Ecological Society of America*, New Orleans, LA. August [Podium, Published Abstract]
- 2018 Bradley J. Tomasek, Annabel J. Porté, Fangliang He, Niklaus E. Zimmermann, **Chase L. Nuñez**, Jean-Christophe Domec and James S. Clark; Trait generality in two temperate forest regions: Do community weighted trait responses to environment translate between continents?, *103rd Annual Meeting of the Ecological Society of America*, 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, *102nd Annual Meeting of the Ecological Society of America*, 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 (*Macaca mulatta*), *84th Annual Meeting of the American Association of Physical Anthropologists*, St. Louis, MO. March [Poster, Published Abstract]
- 2014 **Nunez CL**. Revisiting Parity Effects of Growth and Survival, *Duke University Evolutionary Anthropology Talk Series*, Durham, NC. October [Podium]
- 2014 **Nunez CL**, Grote MN, Wechsler MS, and Hinde KJ. Sex and Birth Order Predict Juvenile Growth and Survival in Captive Rhesus Macaques (*Macaca mulatta*), *37th Meeting of the American Society of Primatologists* Decatur, GA. September [Podium, Published Abstract]

TEACHING AND MENTORING

Teaching Experience

- 2016 - 17 Instructor at Duke University: *Statistics: Applied Data Analysis for Environmental Science*. In charge of designing and implementing weekly lectures and computer-based R coding labs for ~65 masters students.

Mentoring Experience

- 2018 - 19 Jack Miklaucic, *NC School of Science and Math Internship Program [High School Student]*
- 2016 - 19 Taylor Minich, *NASA Adv. Information Systems Technology Program [Masters student]*
- 2016 - 19 Christopher Kilner, *NASA Adv. Information Systems Technology Program [PhD student]*
- 2016 - 19 Lane Scher, *NASA Adv. Information Systems Technology Program [PhD student]*

- 2016 - 18 Megan Ossman, *Community Wildlife Working Group [masters student]*
- 2016 - 18 Johanna Dipenthal, *Elephant Working Group [masters student]*
- 2016 - 17 James McCarthy, *Community Wildlife Working Group [masters student]*

Selected Community Outreach Experience Organized

- 2018 *Environmental Law Panel on Climate Policy, 07/02/2018*
- 2018 *An Evening with Ms. Bronwyn Llewellyn, USAID Environment Officer, 05/03/2018*
- 2018 *Open Lunch 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 *Dr. Andy Read presenting on his work with Vaquitas, 10/11/2016*
- 2016 *Movie Screening of Virunga and panel discussion, 25/10/16*
- 2016 *Open Lunch with Elizabeth Kalies of The Nature Conservancy, 20/10/2016*
- 2016 *Volunteering at Carolina Tiger Rescue, 14/10/2016*
- 2016 *NC. Central Regional Science and Engineering Fair – Ask a scientist table, 07/10/2016*
- 2016 *DCS at the Nicholas School Earth Day festivities, 22/04/2016*
- 2016 *Volunteer Day at the Ellerbe Creek Watershed Association, 20/02/2016*
- 2015 *Community 'Warlords of Ivory' Screening, 02/11/2015*
- 2015 *Community 'Red Wolf Revival' Screening, 16/10/2015*
- 2015 *Triangle Conservation Career Trek On, 04/11/2015*
- 2015 *International Landscapes & Conservation Mixer, 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 **Nicholas School Elected Representative**
Transportation and Parking Committee
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