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Professional Experience

- 9/2019 – present **Postdoctoral associate**, Department of Evolutionary Anthropology, Duke University
- 1/2017 – 12/2018 **Claude Leon Postdoctoral fellow**, School of Animal, Plant & Environmental Sciences, at the University of the Witwatersrand, South Africa
- 6/2014 – 12/2016 **Postdoctoral fellow**, School of Animal, Plant & Environmental Sciences, at the University of the Witwatersrand, South Africa

Education

- 9/2010 – 9/2013 **PhD in Biodiversity and Ecology**, Georg-August-University of Göttingen
- Dissertation:** Effects of fragmentation on brown spider monkeys (*Ateles hybridus*) and red howler monkeys (*Alouatta seniculus*) [PDF](#)
Committee: Prof. Dr. E.W. Heymann, Prof. Dr. P. Kappeler, Prof. Dr. J. Ostner
- 10/2002 – 4/2010 **Study of Biology (Diploma)**, Georg-August-University of Göttingen
- Diploma thesis:** Sex and age class differences in the social behavior of spider monkeys (*Ateles belzebuth belzebuth*) in Yasuní National Park, Ecuador
Advisor: Prof. Dr. E.W. Heymann

Internships and Lab Experience

- 9/2016 – 11/2016 Vacuum distillation of blood samples for a doubly labeled water study, Isotope Laboratory, IPHC, CNRS Strasbourg, France
Cooperation with: Dr. S. Blanc
- 10/2012 – 11/2012 Genetic analyses of fecal samples from *Alouatta seniculus*, Primate Molecular Ecology and Evolution Lab, Department of Anthropology at the University of Texas at Austin, USA
Cooperation with: Prof. Dr. A. Di Fiore
- 5/2012 – 6/2012 Steroid analysis of fecal samples collected from *Ateles hybridus* and *Alouatta seniculus* at the Endocrinology Laboratory, German Primate Center, Germany
Cooperation with: Dr. M. Heistermann

Field Experience

8/2014 – 11/2017	Data collection at Succulent Karoo Research Station, Goegap Nature Reserve, South Africa During this time I have trapped, tagged, handled, and sexed several hundred small mammals. In addition, I have taken several hundred blood samples and conducted more than 150 subcutaneous injections on striped mice (<i>Rhabdomys pumilio</i>).
8/2011 – 4/2012	2 nd field season for the doctoral thesis. Data collection in several forest fragments in Colombia
7/2010 – 2/2011	1 st field season for the doctoral thesis. Data collection in several forest fragments in Colombia. I conducted behavioral observations and collected fecal samples for the analyses of glucocorticoid levels, genetic relatedness, seed dispersal and parasite communities of brown spider monkeys (<i>Ateles hybridus</i>) and red howler monkeys (<i>Alouatta seniculus</i>).
9/2009 – 12/2009	Field assistant for the Titi Monkey Project, Bolivia
6/2009 – 8/2009	Field assistant for Proyecto Primates Colombia
1/2008 – 5/2008	Data collection for diploma thesis at the Tiputini Biodiversity Station in the Yasuní National Park, Ecuador

Third Party Funding and Fellowships Awarded

2017	Claude Leon Foundation (2-year Postdoctoral Fellowship). Project title: Fitness consequences of inter-individual variation in resting metabolic rate and body composition in a rodent inhabiting a semi-arid environment
2015	Conservation International (Margot Marsh Biodiversity Foundation) Research grant (US \$2,000). Project title: Ecological and physiological implications of rehabilitation and reintroduction of woolly monkeys (genus <i>Lagothrix</i>) in Vichada, Eastern Colombia
2013	Nacey Maggioncalda Foundation. Major Grant (US \$10,000). Project title: Effects of habitat disturbance on the behavioral ecology, stress levels and parasitism in the Brown spider monkey (<i>Ateles hybridus</i>) in Colombia
2013	Conservation International (Margot Marsh Biodiversity Foundation) Research grant (US \$2,830). Project title: Effects of habitat disturbance on parasite loads and stress levels of Brown spider monkeys (<i>Ateles hybridus</i>) in Colombia
2012	The Rufford Small Grants Foundation (UK £ 5,577). Project title: Effects of fragmentation on the behavioral ecology, stress levels and parasitism in the brown spider monkey (<i>Ateles hybridus</i>) in Colombia
2011	Conservation International (Margot Marsh Biodiversity Foundation) Research grant (US \$2,000). Project title: Behavioral ecology, stress and parasitism of the critically endangered brown spider monkey (<i>Ateles hybridus</i>) at Serrania de Las Quinchas, Colombia

Publication Record

- Rimbach, R.**, Blanc, S., Zahariev, A., M., Robin, J-P, Pillay, N., Schradin, C. (2019) Fat content of striped mice decreased during the breeding season but not during the food-restricted dry season. *Journal of Experimental Biology*, 222: jeb208504
- Rimbach, R.**, Blanc, S., Zahariev, A., Pillay, N., Schradin, C. (2019) Daily energy expenditure of males following alternative reproductive tactics: Solitary roamers spend more energy than group-living males. *Physiology and Behavior*, 199:359-365
- Rimbach, R.**, Blanc, S., Zahariev, A., Gatta, M., Pillay, N., Schradin, C. (2018) Seasonal variation in energy expenditure in a rodent inhabiting a winter-rainfall desert. *Journal of Comparative Physiology B*, 188: 877–888
- Schradin, C., Vuarin, P., **Rimbach, R.** (2018) The neoteny-helper hypothesis: When to expect and when not to expect endocrine mechanisms to regulate allo-parental care? *Physiology and Behavior*, 193: 127-134
- Rimbach, R.**, Jäger, J., Pillay, N., Schradin, C. (2018) Food availability is the main driver of seasonal changes in resting metabolic rate in African striped mice (*Rhabdomys pumilio*). *Physiological and Biochemical Zoology*, 91: 826-833
- Pillay, N., **Rimbach, R.** (2018) Protein deficiency decreases stereotypic behavior frequency and prevalence and activity in the striped mouse *Rhabdomys dilectus chakae*. *Developmental Psychobiology*, 60:194-201
- Jäger, J., Schradin, C., Pillay, N., **Rimbach, R.** (2017) Active and explorative individuals are often restless and excluded from studies measuring resting metabolic rate: do alternative metabolic rate measures offer a solution? *Physiology and Behavior*, 174: 57-66
- Rimbach, R.**, Wastavino, M., Yuen, C H., Pillay, N., Schradin, C. (2017) Contrasting activity budgets of alternative reproductive tactics in male striped mice. *Journal of Zoology*, 310: 280-289
- Rimbach, R.**, Pillay, N., Schradin, C. (2017) Both thyroid hormone levels and resting metabolic rate decrease in African striped mice when food availability decreases. *Journal of Experimental Biology*, 220: 837-843
- Rimbach, R.**, Willigenburg, R., Schoepf, I., Yuen, C. H., Pillay, N., Schradin, C. (2016) Young but not old adult African striped mice reduce their activity in the dry season when food availability is low. *Ethology*, 122: 828-840
- Pillay, N., **Rimbach, R.**, Rymer, T. (2016) Pre- and postnatal dietary protein deficiency influences anxiety, memory and social behaviour in the African striped mouse *Rhabdomys dilectus chakae*. *Physiology and Behavior*, 161: 38-46
- Nel, K., **Rimbach, R.**, Pillay, N. (2015) Dietary protein influences the life-history characteristics across generations in the African striped mouse *Rhabdomys*. *Journal of Experimental Zoology, Part A* 323A: 97-108
- Rimbach, R.**, Bisanzio, D., Galvis, N., Link, A., Di Fiore, A., Gillespie, T. R. (2015) Brown spider monkeys (*Ateles hybridus*): a model for differentiating the role of social networks and physical contact on parasite transmission dynamics. *Philosophical Transactions of the Royal Society*, 370: 20140110
- Rimbach, R.**, Link, A., Montes-Rojas, A., Di Fiore, A., Heistermann, M., Heymann, E.W. (2014) Behavioral and physiological responses to fruit availability of spider monkeys ranging in a small forest fragment. *American Journal of Primatology*, 76: 1049-1061
- Rimbach, R.**, Heymann E.W., Link A., Heistermann M. (2013) Validation of an enzyme immunoassay for assessing adrenocortical activity and evaluation of factors that affect levels of fecal glucocorticoid metabolites in two New World primates. *General and Comparative Endocrinology*, 191: 13-23
- Rimbach, R.**, Link, A., Heistermann, M., Gómez-Posada, C., Heymann, E.W. (2013) Effects of logging, hunting and forest fragment size on physiological stress levels of two sympatric ateline primates in Colombia. *Conservation Physiology*, 1: doi: 10.1093/conphys/cot031
- Rimbach, R.**, Pardo-Martinez, A., Montes-Rojas, A., Di Fiore, A., Link, A. (2012). Interspecific infanticide and infant-directed aggression by spider monkeys (*Ateles hybridus*) in a fragmented forest in Colombia. *American Journal of Primatology* 74: 990–99

Ad hoc Reviewer

American Journal of Primatology
 Animal Biology
 Animal Conservation
 Behavioral Ecology and Sociobiology
 Biology Letters
 Canadian Journal of Zoology
 Frontiers in Zoology
 International Journal of Biodiversity and Conservation
 International Journal of Primatology
 Mammalian Biology
 Peerage of Science
 PLOS One
 Primates
 Science of the Total Environment
 The Leakey Foundation
 Tropical Conservation Science

Congresses and Posters

- 9/2017 3rd Colloque d'Ecophysiologie Animale, in Strasbourg, France
 Oral presentation: Alternative reproductive tactics in African striped mice: solitary roamers spend more energy than bourgeois males but grow less than philopatric males!
- 9/2015 10th International Conference on Behaviour, Physiology and Genetics of Wildlife, in Berlin, Germany
 Oral presentation: Gain or lose - Relationship between resting metabolic rate and changes in body mass in the African striped mouse
- 4/2015 12th Small African Mammal Symposium, in Mantasoa, Madagascar
 Oral presentation: Transgenerational effects of dietary protein on life-history characteristics in the African striped mouse *Rhabdomys*.
 Poster presentation: Dietary protein influences exploratory and social behaviour in *Rhabdomys dilectus chakae*
- 9/2013 9th International Conference on Behaviour, Physiology and Genetics of Wildlife, Berlin, Germany
 Oral presentation: Effects of forest fragment size and human impact on glucocorticoid levels in two Neotropical primates
- 2/2013 13th Meeting of the Gesellschaft für Primatologie (GfP) in Hamburg, Germany
 Oral presentation: Effects of habitat fragmentation on glucocorticoid levels in two Neotropical primates
- 9/2012 Courant Research Centre (CRC) graduate student meeting "Evolution of Social Behavior" in Göttingen, Germany
 Oral presentation: Sources of variation in glucocorticoid levels in two New World primates
- 9/2012 Conference of the International Society of Wildlife Endocrinology (ISWE), Vienna, Austria

Poster presentation: Validation of a faecal glucocorticoid assay and effects of daytime, sex and female reproductive state on glucocorticoid output in spider monkeys (*Ateles hybridus*)

9/2012

10th Graduate student meeting in the section “Animal Behaviour”, Deutsche Zoologische Gesellschaft and the Ethologische Gesellschaft, in Göttingen, Germany

Oral presentation: Effects of daytime, sex and female reproductive state on glucocorticoid output in two New World monkeys

8/2012

14th Meeting of the International Primatological Society (IPS) in Cancun, Mexico
Two oral presentations:

1. Patterns of social behavior amongst female spider monkeys (*Ateles hybridus*)

2. Interspecific aggression and infanticide by spider monkeys (*Ateles hybridus*) in a fragmented forest in Colombia

2/2009

4th Thementagung der Ethologischen Gesellschaft: Behavior and Evolution, in Göttingen, Germany

Poster presentation: Sex-differences in social behavior of spider monkeys (*Ateles belzebuth belzebuth*) in Yasuní National Park, Ecuador

Teaching and Supervision Experience

1/2010 – 11/2017

Training and supervision of several local and international field assistants in Colombia and South Africa (in English and Spanish), both during my PhD project and my postdoctoral fellowships

12/2016

External evaluator for the master thesis of Henry García Diego
Thesis title: Social factors that influence the behavior and reproductive strategies of woolly monkeys: an endocrinological approach
Universidad de Los Andes, Bogotá, Colombia

9/2010 – 9/2011

Supervision of the bachelor thesis of Andrés Fernando Montes Rojas
Thesis title: Characterization of the diet and nutritional analysis of the most consumed food sources of *Ateles hybridus* living in a forest fragment in San Juan del Carare, Colombia
Universidad del Tolima, Ibagué, Colombia

6/2010

Lab instructor for the course “Ecology of Primates” at the German Primate Centre, Göttingen, Germany