

Stephanie G. Schuttler

North Carolina Museum of Natural Sciences
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EDUCATION

Ph.D., Biological Sciences, University of Missouri (MU), Columbia, MO, 2012

B.A., Biological Sciences (Magna cum laude), State University of New York at Buffalo, 2003

POSITIONS

- 2014-present **Postdoctoral Research Associate**, NC Museum of Natural Sciences, NC State University
Advisor: Dr. Roland Kays
Research: Implementing citizen science camera trap research into middle school classrooms; using collected data to address questions about mammal distributions in urbanized landscapes
- 2012-2013 **Postdoctoral Research Associate**, Fisheries & Wildlife Sciences, MU
Advisor: Dr. Matthew Gompper
Research: The relationship between genetics (MHC) and immune response; population genetics and patterns of relatedness; and disease perception in wild raccoons
- 2006-2012 **Doctoral Candidate**, Biological Sciences, MU
Advisor: Dr. Lori Eggert
Research: Investigating African forest elephant social structure and spatial ecology through network models, non-invasive genetics, and satellite telemetry
- 2005 **Intern**, The School for Field Studies, Center for Wildlife Management, Kenya
Research: Tourist satisfaction and preferences of large mammals in Kenya.
- 2004 **Reproductive/Wildlife Biology Intern**, Disney's Animal Kingdom, FL
Research: Endocrinology of captive exotic species for reproduction and management; native wildlife censuses
- 2003 **Intern**, Bureau of Land Management/Chicago Botanic Garden, St. George, UT
Research: Space use patterns of bats in the Grand Canyon; locating water catchments

PUBLICATIONS

- Schuttler, S.G.**, D. Glenn, J. Hohm, D. Pasion, C. Belair, D. Humphries, R. Dunn, R. Kays (*accepted, Science Scope*). What's in your school yard? Using citizen science wildlife cameras to conduct authentic scientific investigations in the classroom.
- Schuttler, S.G.**, A. W. Parsons, T. Forrester, M. C. Baker, W. J. McShea, R. Costello, R. Kays. 2016. Deer on the lookout: how hunting, hiking, and coyotes affect white-tailed deer vigilance. *Journal of Zoology*.
- Parsons, A. W. C. Bland, T. Forrester, M. C. Baker, **S. G. Schuttler**, W. J. McShea, R. Costello, R. Kays. 2015. The ecological impact of dogs on wildlife in protected areas in eastern North America. *Biological Conservation* **203**: 75-88.
- Schuttler, S.G.**, Ruiz-López, M.J., Monello, R.J., Eggert, L.S., and M.E. Gompper. 2015. The interplay between resource aggregations and genetic relatedness in the common raccoon. *Mammal Research* **60**: 365-373.

- Ruiz Lopez, M. J., R. Monello, **S. G. Schuttler**, S. Lance, L. S. Eggert, and M. E. Gompper. 2015. MHC variation and resource availability are associated with seroconversion to viral infections in raccoons. *Infection, Genetics, and Evolution* **28**: 317-327.
- Schuttler, S. G.**, K. Jeffery, A. Whittaker, and L. S. Eggert. 2014. Social network analyses reveal limited fission-fusion sociality in African forest elephants. *Endangered Species Research* **25**: 165-173.
- Schuttler S. G.**, Philbrick J. A., Jeffery K. J., Eggert L. S. 2014. Fine-scale genetic structure and cryptic associations reveal evidence of kin-based sociality in the African forest elephant. *PLoS ONE* **9**: e88074.
- Schuttler, S. G.**, S. Blake, L. S. Eggert. 2012. Movement patterns and spatial relationships among female African forest elephants. *Biotropica* **44**: 445-448.
- Ahlering, M. A., S. Hedges, A. Johnson, M. Tyson, **S. G. Schuttler**, and L. S. Eggert. 2011. Genetic diversity, social structure, and conservation value of the elephants of the Nakai Plateau, Lao PDR, based on non-invasive sampling. *Conservation Genetics* **12**:413-422.
- Okello, M. M., **S. G. Manka**, and D. E. D'Amour. 2008. The relative importance of large mammal species for tourism in Amboseli National Park, Kenya. *Tourism Management* **29**:751-760.
- Okello, M. M., D. E. D'Amour, and **S. G. Manka**. 2008. Tourism attractions and satisfaction of Amboseli National Park, Kenya. *Tourism Analysis* **13**:373-386.
- Eggert, L. S., M. Ahlering, and **S. G. Manka**. 2007. Lessons from genetic censuses of forest elephants. *In Proceedings of the International Elephant Conservation & Research Symposium*. International Elephant Foundation.

PUBLICATIONS IN PREP and REVIEW

- S. G. Schuttler**, A. Sorensen, R. Jordan, C. Cooper, A. Shwartz (*in prep for Frontiers in Ecology and Evolution*). Connections people with nature: Can citizen science reverse the extinction of experience?
- Cardinal-De Casas, A., A. Traud, **S. G. Schuttler**, and R. Dunn (*in prep*). The formation and persistence of "friends" in ant societies.
- Schuttler, S. G.** (*in review, Mammal Review*). A comparative review of social structure across the extant elephant species.

BOOK CHAPTERS

- Schuttler, S. G.**, L. S. Eggert, and T. Breuer. 2015. Using genetic approaches to study forest elephants within a bai context. *In Methods for Monitoring Forest Elephant Populations at Bais*.
- Wrege, P. H., **S. G. Schuttler**, L. S. Eggert, and T. Breuer. 2015. Estimating elephant population size. *In Methods for Monitoring Forest Elephant Populations at Bais*.
- Momont, L. and **S. G. Schuttler**. Ranging and habitat use of forest elephants. 2015. *In Methods for Monitoring Forest Elephant Populations at Bais*.

Fishlock, V., **S. G. Schuttler**, and S. Blake. An introduction to studying forest elephants. 2015. *In* Methods for Monitoring Forest Elephant Populations at Bais.

GRANTS, FELLOWSHIPS, and AWARDS

2016 USFWS African Elephant Conservation Grant Program (in review, \$161,954, co-wrote with D. Rubenstein, Princeton University)

2014 American Alliance of Museums Museums Connect Grant (\$83,000, co-wrote with K. Kandros, implemented)

2014 North Carolina Museum Council Internship Award (\$1,500)

2013 Society for Conservation Biology Chapter Travel Award, SCB (\$265)

2012 Sandra K. Abell GK-12 Fellow of the Year, MU

2011-2012 NSF GK-12 Fellowship, MU, (\$45,000)

2011 TransWorld Airlines Scholarship, MU (\$7,000)

2009 John D. Bies International Travel Scholarship, MU (\$1,500)

2008 USFWS African Elephant Conservation Grant Program (\$44,840, co-wrote with L. Eggert)

2008 Honorable Mention, NSF Graduate Research Fellowship Program

2007 Conservation Biology Fellowship, MU (\$3,000)

2007 Biology Graduate Student Association Travel Grant (\$100)

2006-2010 Life Sciences Fellowship, MU (\$84,000)

INVITED ORAL and POSTER PRESENTATIONS

2016 The Wildlife Society Conference, Raleigh, NC, *Talk*

2016 Research Triangle Park STEM Expo, *Talk and workshop*

2015 National Association of Biology Teachers, Providence, RI, *Poster*

2015 Biodiversity Information Standards (TDWG), Nairobi, Kenya, *Talk*

2015 International Congress for Conservation Biology, Montpellier, France, *Symposium Organizer and Presenter*

2014 North Carolina State Teachers Association Conference, Winston-Salem, NC, *Plenary Talk*

2014 National Center for Science and Civic Engagement Washington Symposium and Capitol Hill Poster Session, Washington DC, *Talk and Panel Discussion*

2014 Shaw University Seminar Series, Shaw University, Raleigh, NC, *Talk*

ORAL and POSTER PRESENTATIONS

2014-present Daily Planet talks, North Carolina Museum of Natural Sciences, Raleigh, NC, *Talk*

2015 International Urban Wildlife Conference, Chicago, IL, *Talk*

2015 Citizen Science Association Conference, San Jose, CA, *Talk*

2015 AAAS Annual Meeting, San Jose, CA, *Poster*

2014 The Wildlife Society Annual Conference, Pittsburg, PA, *Poster presented by undergrad*

2014 Teen Science Café, North Carolina Museum of Natural Sciences, Raleigh, NC, *Talk*

2013 National Association of Biology Teachers, Atlanta, GA, *Organized workshop, Talk*

2013 Science Outreach & Communication, Columbia, MO, *Poster*

2013 International Congress for Conservation Biology, Baltimore, MD, *Poster*

2012 Ecological Society of America, Portland, Oregon, *Talk*

2011 Graduate STEM Fellows in K-12 Education, Washington, DC, *Talk*

2011 Behavior 2011, Bloomington, Indiana, *Talk*

2010 Forest Elephants and Bais: Developing a Strategy for World Class Research and High Efficiency Conservation at Critical Sites in the Congo Basin, Brazzaville, *Talk*

2010 Animal Behavior Society, Williamsburg, VA, *Poster*

2009 Society for the Study of Evolution, Moscow, ID, *Poster*

- 2009 Missouri Life Sciences Week, Columbia, MO, *Poster*
 2008 Missouri Life Sciences Week, Columbia, MO, *Poster*
 2007 The International Elephant Conservation & Research Symposium, Orlando, FL, *Poster*

SCIENCE WRITING and OUTREACH

Blogs

Wildlife SNPits (co-founder, 24 posts), <http://wildlifesnpits.wordpress.com/author/stephanieschuttler/>
 African Wildlife Foundation (invited, 3 posts), <http://www.awf.org/blog/author/stephanie+schuttler>
 Printed Scholar (1 post), <http://www.printedscholar.com/drupal/node/46>

In the Media, Videos, and Podcasts

Interview, Time Warner Cable News, North Carolina's Candid Critters
<http://wncn.com/2016/10/29/nc-officials-hope-to-get-20000-photos-of-candid-critters/>
 Interview, Time Warner Cable News, North Carolina's Candid Critters
<http://www.twcnews.com/nc/triangle-sandhills/news/2016/10/26/candid-critter-program-to-track-nc-s-wildlife-over-3-years.html>
 Live interview, JASON Learning
<https://www.jason.org/stephanie-schuttler-ecologist>
 Podcast, The Walking Classroom Science Career Series,
<http://www.thewalkingclassroom.org/our-program/podcast-partners/>
 Video; Coyote Finds Den of Red Fox Puppies, <https://www.youtube.com/watch?v=NqBrWMGtFLI>
 NC State News, The Night of the Elephants: Adventures of a Scientist in the Field,
<http://news.ncsu.edu/2014/09/elephants-stephanie-schuttler/>
 Mongabay Kids, Inside the Forest Elephant Social Network,
<http://kids.mongabay.com/facts/2014/07/28/inside-the-forest-elephant-social-network/>
 The Dodo, 64 (And Counting!) Conservationists You Should be Following on Twitter Right Now,
<https://www.thedodo.com/64-conservationists-you-should-621196654.html>
 The Conversation, Scientists at Work: Blood, Sweat, Tears and Elephant Dung,
<https://theconversation.com/scientists-at-work-blood-sweat-tears-and-elephant-dung-23800>
 Your Wild Life, Before They Were Scientists: <http://www.yourwildlife.org/2014/04/before-they-were-scientists-stephanie-schuttler/>
 James Borrell, Women in Conservation (and on Twitter), <http://www.jamesborrell.com/women-conservation-twitter/>
 James Borrell, Top 100 Conservation Twitter Accounts to Follow in 2014,
<http://www.jamesborrell.com/top-100-conservation-twitter-accounts-to-follow-in-2014/>

General Audience Publications

Schuttler, S. G., A. Whittaker, and K. Jeffery (*In prep*). Have you seen this elephant? An educational identification guide to the elephants of Lopé National Park.
Schuttler, S. G. When More Science Isn't Better, *Australian Deer*. **14**. November-December 2016.
Schuttler, S. G. Kids trap animals on camera for conservation, *The News & Observer*. 2016.
Schuttler, S. G. Inside NC Science: Is your cat on the prowl? *The Charlotte Observer*. 2014.
Schuttler, S. G. 2013. Educational outreach in small and fragmented natural areas. *The Glade* **15**: 4-6.
Manka, S. G. and K. Klymus. 2009. BioBlitz brings nature and community together. *The Glade* **12**: 7-9.

PROFESSIONAL SERVICE

2016 Mentor, STEM Mentoring Program
 2016 2016 SciREN Triangle Networking Event, connects researchers and teachers
 2015-present Member, Global Perspectives Committee, National Association of Biology Teachers

- 2015-2016 Co-organizer, Science Communication Summer Workshop
 2015 Mentor, Africa Section Communications/E-Mentoring Programme, Society for Conservation Biology
 2015 Symposium Organizer, "Creating Natural Connections in Unnatural Habitats Through Citizen Science," International Congress for Conservation Biology, Montpellier, France
 2014 Organizer of workshop "Conservation Success Stories," Missouri Natural Resources Conference, Lake of the Ozarks, MO
 2013 Instructor, Non-Invasive Genetic Techniques in Wildlife Conservation, Smithsonian-Mason School of Conservation, Front Royal, VA
 2013 President, Missouri Chapter of the Society for Conservation Biology (moscb.weebly.com)
 2011-2012 Vice President, Missouri Chapter of the Society for Conservation Biology
 2011 Coordinator, "Approaches and Advice to Writing Your Dissertation," MU
 2007-2010 Secretary, Missouri Chapter of the Society for Conservation Biology
 2006-2012 Member, Biological Graduate Student Association, MU

PROFESSIONAL DEVELOPMENT

- 2013 NSF's Science: Becoming the Messenger, Columbia, MO
 2013 Capacity-building for SCB Chapters, ICCB 2013, Baltimore, MD
 2010 The Role of Science in Environmental Decisions, graduate course, MU
 2009 ConGen—Population Genetics Data Analysis Course, Flathead Lake, MT
 2009 Forest Elephants and Bais: Developing a Strategy for World Class Research and High Efficiency Conservation at Critical Sites in the Congo Basin workshop
 2009 Entering Mentoring undergraduate mentor training, MU

TEACHING POSITIONS and PROFESSIONAL MENTORSHIPS

- 2014-present **Kenan Fellow Mentor**, Lena Deskins (Sandy Ridge Visual and Performing Arts Elementary School), Rachael Polmanteer (Wake Forest Middle School), Nicole Cesari (Ligon Middle School), Cathy Belair (Valley Springs Middle School), Jordan Hohm (Broadview Middle School), Denise Humphries (Chinquapin Elementary School), Kelsie Armentrout (Hilburn Academy), David Glenn (Burgaw Middle School), Dayson Paison (Graham Middle School)
 2014 **Guest Lecture**, The Evolution of Proboscideans, NC State University, Raleigh, NC
 2013 **Guest Lecture**, Genetic approaches to studying wildlife, Muriel Williams Battle High School, 2013, Columbia, MO
 2013 **Lecturer**, F&W/BIO 3660: Mammalogy, MU
 2013 **Scientist and mentor**, 2BGreen, Robert Allen (Two Mile Prairie Elementary School)
 2012 **Guest Lecture**, The secret lives of African forest elephants: using genetics, networks, and telemetry to understand sociality, Central Methodist University, 2012, Lafayette, MO
 2011-2012 **GK-12 Scientist**, grades 4-5, Robert Allen (Two Mile Prairie), Cedar Ridge Elementary School
 2011-2012 **Scientist**, ShowMe Nature Science Safari
 2010-2011 **Graduate Teaching Assistant**, BIO 1020: General Biology Laboratory (non-majors), BIO 3650: General Ecology Laboratory (writing intensive), MU
 2002 **Undergraduate Teaching Assistant**, GLY 310: Ecological Methods Laboratory SUNY Buffalo

REVIEWER

Journal of Wildlife Management, Behaviour, Integrative Zoology, Acta Theriologica, National Geographic Society, Methods in Ecology and Evolution

SOCIETY MEMBERSHIPS

Society for Conservation Biology

The Wildlife Society