

## **Kris H. Sabbi, Ph.D.**

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### **RESEARCH INTERESTS:**

- The evolutionary history of extended juvenile periods in humans and great apes
- Interdisciplinary approaches to understanding the interactions of multiple body systems and developmental processes between infancy and reproductive maturity
- Behavioral flexibility in social strategies and the evolution of leadership in humans and nonhuman primates
- Adaptive responses to stress and stress physiology
- Increasing participation and retention of underrepresented identities in every level of STEM education and occupation
- Community-sensitive environmental policy and sustainable development

### **EDUCATION:**

**2020** Ph.D. in Anthropology (with distinction), “The ontogeny of sex-typed social strategies among wild East African chimpanzees (*Pan troglodytes schweinfurthii*),” University of New Mexico, Albuquerque, NM

**2015** Advancement to Candidacy (with distinction), University of New Mexico, Albuquerque, NM

**2014** M.S. in Anthropology, University of New Mexico, Albuquerque, NM

**2009** B.S. in Documentary Cinema Production (*Cum laude*) and Anthropology minor, Ithaca College, Ithaca, NY

### **GRANTS, SCHOLARSHIPS, AND OTHER AWARDS:**

**2019:** Inaugural recipient of the Dissertation Fellowship for Interdisciplinary Anthropology, Anthropology Department, University of New Mexico (\$27,000); Lembersky Conference Travel Award (\$660); Pollitzer Essay Award for travel to the annual meetings of the American Association of Physical Anthropologists (\$500); Honorable Mention for excellence in student podium presentation at the annual meetings of the American Association of Physical Anthropologists

**2018:** Graduate and Professional Student Union Student Research Grant (\$500), Anthropology Department Student Travel Grant (\$500), Excellence in Student Poster Presentation, New Mexico Academy of Sciences Annual Research Symposium (\$100)

- 2017:** Ales Hrdlicka Prize for excellence in student research, American Association of Physical Anthropologists (\$500)
- 2016:** Leakey Foundation Dissertation Fieldwork Grant (\$5681); Nacey Maggioncalda Foundation Fieldwork Grant (\$5000); University of New Mexico, New Mexico Research Grant (\$3000), Graduate and Professional Student Union Student Research Grant (\$500), Anthropology Department Student Travel Grant (\$333)
- 2015:** Wenner-Gren Foundation Dissertation Fieldwork Grant (\$17,316); American Association of Primatologists: Student Travel Grant (\$500)
- 2014:** Honorable Mention, National Science Foundation Graduate Research Fellowship Program; American Philosophical Society: Lewis and Clark Exploration Fund (\$5000); University of New Mexico, New Mexico Research Grant (\$3000); Office of Graduate Studies Research and Professional Travel Grant (\$600); Career Services Student Conference Award Program Travel Grant (\$600); Graduate and Professional Student Union Student Research Grant (\$400)
- 2013:** Honorable Mention, National Science Foundation Graduate Research Fellowship Program; University of New Mexico, Office of Graduate Studies Research and Professional Travel Grant (\$840), Career Services Student Conference Award Program Travel Grant (\$600); Sigma Xi Grant in Aid of Research (\$400)
- 2012:** Anthropology Dissertation Field Site Development Grant (\$600)
- 2006-2009:** Ithaca College, WC Egbert Foundation Grant (\$2,000 per year)
- 2006:** Ithaca College, ACG Sophomore Award (\$1,300)
- 2005-2009:** Ithaca College, Access Grant (\$10,000 per year), Dean's Scholarship (\$3,000 per year)

## **PUBLICATIONS:**

Emery Thompson M, and **Sabbi K.** (available online for early view). Evolutionary Demography of the Great Apes. In *Human Evolutionary Demography*. Eds Sear R., Burger O., and Lee R. Open Book Publishers, Cambridge, UK.  
<https://osf.io/p59eu>

Thompson, M. E., Fox, S. A., Berghänel, A., **Sabbi, K. H.**, Phillips-Garcia, S., Enigk, D. K., Phillips-Garcia, S., Enigk, D. K., Otali, E., Machanda, Z. P., Wrangham, R. W. & Muller, M. N. (2020). Wild chimpanzees exhibit humanlike aging of glucocorticoid regulation. *Proceedings of the National Academy of Sciences*, 117(15), 8424-8430. <https://doi.org/10.1073/pnas.1920593117>

**Sabbi K. H.**, Muller M. N., Wrangham R. W., Machanda Z., Otali E., and Emery Thompson M. (2019). Human-like adrenal development in wild chimpanzees: a longitudinal study of urinary dehydroepiandrosterone-sulfate and cortisol. Accepted for publication in special joint issue of *Developmental Psychobiology and American Journal of Primatology: Psychobiological Development in Primates*. <https://doi.org/10.1002/ajp.23064>

**Sabbi K. H.**, Emery Thompson M., Wrangham R. W., Machanda Z., Otali E., and Muller M. N. (in review). Young male chimpanzees experience higher rates of aggression compared to females. Target Journal: PNAS

**Sabbi K. H.**, Muller M. N., Wrangham R. W., Machanda Z., Otali E., and Emery Thompson M. (in prep). Attention to social grooming among immature East African chimpanzees (*Pan troglodytes schweinfurthii*) of the Kanyawara community at Kibale National Park. Target Journal: Animal Behavior and Cognition.

Paciulli, L. M., & **Sabbi, K.** (2017). How Do Pagai, Mentawai Island (Sumatra, Indonesia) Nonhuman Primate Characteristics Affect Hunters' Prey Selection?. *Ethnoprimatology: A Practical Guide to Research at the Human-Nonhuman Primate Interface*, 76, 122.

Emery Thompson, M, Muller, M. N., **Sabbi, K.**, Machanda, Z., Otali, E., & Wrangham, R. W. (2016). Faster reproductive rates trade off against offspring growth in wild chimpanzees. *Proceedings of the National Academy of Sciences*, 113(28), 7780-7785. <https://doi.org/10.1073/pnas.1522168113>

#### **CONFERENCE PRESENTATIONS AND PUBLISHED ABSTRACTS:**

**Sabbi, K. H.**, & Thompson, M. E. (2020, March). The crash-weaning diet: two case studies on the consequences of unusually early and fast weaning among East African chimpanzees (*Pan troglodytes schweinfurthii*). In AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY (Vol. 171, pp. 243-243). 111 RIVER ST, HOBOKEN 07030-5774, NJ USA: WILEY.

**Sabbi K.**, Muller M. N., Machanda Z., Otali E., Wrangham R. W., and Emery Thompson, M. (2019, August). *Adrenal hormones and behavioral development: how does DHEAS relate to social independence in wild chimpanzees?* Presented at the 42nd Annual Meetings of the American Society for Primatologists in Madison, WI, US.

**Sabbi K.**, Muller M. N., Machanda Z., Otali E., Wrangham R. W., and Emery Thompson, M. (2019, March). *Sex differences in adrenal hormone production throughout development among Kanyawara chimpanzees (Pan troglodytes schweinfurthii) at Kibale National Park, Uganda.* Paper presented at the 88th Annual Meetings of the American Association of Physical Anthropologists, Cleveland, OH, US. In AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY (Vol. 168, pp. 171-171). 111 RIVER ST, HOBOKEN 07030-5774, NJ USA: WILEY.

**Honorable mention for excellence in student presentation.**

Muller, M. N., Emery Thompson, M, Enigk, D. K., Hagberg, L., Machanda, Z. P., **Sabbi, K.**, & Wrangham, R. W. (2019, March). Aggression, coalition formation, and aging in wild chimpanzees. Presented at the 88th Annual Meetings of the American Association of Physical Anthropologists, Cleveland, OH, US. In AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY (Vol. 168, pp. 171-171). 111 RIVER ST, HOBOKEN 07030-5774, NJ USA: WILEY.

**Sabbi K. H.**, Emery Thompson, M., Muller M. N., Machanda Z., Otali E., and Wrangham R. W. (2018, October). *Immature male chimpanzees at Kanyawara in Kibale National Park, Uganda, are more likely to groom if they watch neighbors grooming.* Poster presented at the 6th Annual New Mexico Academy of Sciences Research Symposium, Albuquerque, NM.

**Awarded second place for excellence in student presentation.**

**Sabbi K. H.**, Muller M. N., Otali, E., Machanda, Z., Wrangham R. W., and Emery Thompson, M. (2018, August). *Developmental shifts in social exposure among Kanyawara chimpanzees (Pan troglodytes schweinfurthii) at Kibale National Park, Uganda.* Paper presented at the 27th Congress of the International Society of Primatologists in Nairobi, Kenya.

**Sabbi K. H.** Emery Thompson, M., Otali, E., Machanda, Z., Wrangham R. W., and Muller M. N. (2018, April). *Immature male chimpanzees at Kanyawara receive higher rates of aggression compared to females.* Paper presented at the 87th Annual Meetings of the American Association of Physical Anthropologists, Austin TX, US.

**Sabbi K.H.**, Emery Thompson, M, Muller M.N., Otali, E., Machanda, Z., and Wrangham R.W. (2017, August). *Explaining play partner preferences among Kanyawara chimpanzees: are males simply more willing to play or are they preferentially*

*targeted partners?* Paper presented in an invited symposium on ape development at the 87th Annual Meetings of the American Primatological Society, Washington D.C., US.

**Sabbi K.**, Emery Thompson, M., Muller M.N., Machanda Z., Otali E., and Wrangham R.W. (2017, April). *Attention to social grooming among immature East African chimpanzees (*Pan troglodytes schweinfurthii*) of the Kanyawara community at Kibale National Park.* Paper presented at the 86th Annual Meetings of the American Association of Physical Anthropologists, New Orleans, LA, US.  
**Winner of the Ales Hrdlicka Prize for excellence in student research.**

**Sabbi K.**, Emery Thompson, M., and Muller M.N., (2016, August). *Unlike human children, both male and female wild East African chimpanzees (*Pan troglodytes schweinfurthii*) prefer male play partners.* Paper presented during an invited symposium on juvenile primate behavior at the 26th Congress of the International Society of Primatologists, Chicago, IL, US.

Muller, M.N., Emery Thompson, M., Beheim, B.A., Enigk, D.K., Gurven, M., **Sabbi, K.**, ... and Kaplan, H. S. (2016, March). *Testosterone, musculature, and development in Kanyawara chimpanzees and Tsimane forager-horticulturalists.* In *AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY* (Vol. 159, pp. 236-236). 111 River St., Hoboken, 07030-5774, NJ USA: Wiley-Blackwell.

**Sabbi K.**, Emery Thompson M., Machanda Z., Muller M.N., and Wrangham, R.W. *Chimpanzee play styles mirror adult social patterns.* (2014, August). Paper presented at the 25th Congress of the International Primatological Society, Hanoi, Vietnam.

**Sabbi, K.**, Thompson, M., Muller, M.N., & Wrangham, R.W. (2014, March). Patterns of cortisol excretion and social behavior among juvenile chimpanzees (*Pan troglodytes schweinfurthii*) of the Kanyawara community at Kibale National Park. In *AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY* (Vol. 153, pp. 227-227). 11 River St., Hoboken, 07030-5774, NJ USA: Wiley-Blackwell.

Paciulli L, and **Sabbi K.** (2013, April). How Mentawai Island primate characteristics affect hunters' prey choice. 82nd Annual Meeting of the American Association of Physical Anthropologists, Knoxville, TN.

Paciulli L., and **Sabbi K.** (2012, April) New population estimates of Pagai Island, Mentawai, West Sumatran primates. 81st Annual Meeting of the American Association of Physical Anthropologists, Portland OR.

**Sabbi, K.** (2008, March) The effects of visitor density on western lowland gorilla (*Gorilla gorilla gorilla*) behavior at the Philadelphia Zoo. 48th Annual Meeting of the Northeastern Anthropological Association, Amherst MA.

Paciulli L., **Sabbi K.**, and Montanez G. (2008, April) Handedness and the percent of time spent feeding unimanually versus bimanually in common squirrel monkeys (*Saimiri sciureus*) at the Rosamond Gifford Park Zoo. Annual Whalen Academic Symposium, Ithaca NY.

### **INVITED TALKS:**

**2019:** “What can chimpanzee juvenility tell us about human evolution?” Invited Lecture, University of Northern Colorado, Greeley, CO, Feb. 13, 2019.

**2018:** “Interpreting Chimpanzee Behavior and Ecology for Tourists,” **Uganda Wildlife Authority** invited lecture series for training park guides at the chimpanzee tourism site, Kanyanchu in Kibale National Park, Uganda, Jul. 20-21, 2018.

### **TEACHING EXPERIENCE:**

Aug-Dec. 2019: University of New Mexico, **Instructor on Record**, lab-based introductory course in human evolution for majors and non-majors including hands-on instruction in basic evolutionary principles, osteology, primate phylogeny, and the paleontological record for non-human primate and hominoid ancestors (ANTH 151L).

Aug. 2012-2019: University of New Mexico, **Graduate Teaching Assistant** with responsibilities including guest lectures, leading review sessions, and grading for introductory and upper-level coursework in topics such as Human Emergence and Evolution (ANTH 150), Introduction to Human Behavioral Ecology (ANTH 160), Paleoanthropology (ANTH 257), and Human Behavioral Ecology (ANTH 360), and Great Ape Minds (ANTH 362/562)

Summer 2013, 2015-2017: Makerere Biological Field Station, Kanyawara, Uganda; **Instructor** for the L’Tle Project lessons in photography and supplementary environmental and science education, **Guest Lecturer** for visiting student groups

December 2010 to January 2011: La Suerte Biological Research Station, Costa Rica;  
**Lecturer and Field Training Assistant**; Supervisor: Dr. Amy Schrier  
Field Course in **Primate Behavior and Ecology**

### **FIELD EXPERIENCE:**

January to August 2015, 2016, and 2017, June to August 2018: Kibale National Park, Uganda; **Dissertation Research: The ontogeny of sex-typed social strategies among East African chimpanzees**

Supervisors: Dr. Martin N. Muller and Dr. Melissa Emery Thompson

- 24 total months of **interdisciplinary** observational data collection on wild chimpanzees at Kanyara
- Combined traditional ethological methods with established techniques in endocrinology and developmental psychology
- Trained and supervised **local data entry assistant**

June to August 2013: Kibale National Park, Uganda; **Dissertation Pilot: The ontogeny of sex-typed social strategies among East African chimpanzees**;  
Supervisors: Dr. Martin N. Muller, and Dr. Melissa Emery Thompson

April to September 2011: Kakamega Forest Reserve, Kenya; **Field Manager**;  
Supervisor: Dr. James Fuller

- Project: **The ontogeny, function and evolution of vocal communication in blue monkeys (*Cercopithecus mitis stuhlmanni*)**
- **Supervised data collection** from six local field assistants
- **Audio-recorded** vocalizations and participated in playback **experiments**

May to August 2010: Pacuare Nature Reserve, Bataan, Costa Rica **Research Assistant**; Supervisor: Dr. Elizabeth Eadie

- Project: **Feeding behavior and foraging efficiency of juvenile versus adult white-faced capuchins (*Cebus capucinus*)**
- Continuous focal animal sampling using Noldus Observer behavioral software and Palm Pilot
- Phenological transects and plant identification

December 2009 to January 2010: La Suerte Biological Research Station, Costa Rica;  
Student; Instructors: Dr. Paul Garber and Dr. Nicoletta Righini  
Field Course: Advanced Primate Behavior and Ecology

- Learned to track and identify wild primates

- Methods in behavioral observation
- Independent Research Project: **Age and sex differences in spatial affiliation and social interaction among mantled howler monkeys (*Alouatta palliata*)**

**OTHER RELEVANT PROFESSIONAL AND SERVICE EXPERIENCE:**

2012 to 2020: **Graduate Laboratory Assistant and Laboratory Manager**, University of New Mexico, Hominid Behavioral Endocrinology Lab, Albuquerque, NM

- **2000+ hours** training in **endocrine analysis** including hormone **extraction** and both **ELISA** (including cortisol, creatinine, testosterone, and DHEAS) and **radio-immunoassay** techniques (including c-peptide, DHEAS)
- Certified training in radiation safety

2017 to 2020: Advancing Womxn in Science (**President** 2018-2020, **Events Manager** 2017-2018), University of New Mexico, Albuquerque, NM

- Philosophy: providing support and empowerment for women in science, technology, engineering and mathematics disciplines
- As Co-President: Set annual agenda to manage the four major goals of outreach, engagement, support, and empowerment that thread through all of our activities; securing **annual budget plus additional support from grants**; coordinate with other board members to organize all AWS events and fundraising efforts
- As Events Manager: **Plan and coordinate** AWS events to support women in STEM and encourage community engagement

2013 to present: **Founder and Director, Learn Through the Lens Exchange (L'TLe)** Project, Albuquerque, NM and Kibale National Park, Uganda

**Project aims:**

- Increase access to natural spaces and wild animals for under-privileged American and Ugandan youth
- Foster **pride in local wildlife** and encouraging a sense of **environmental stewardship** through experience and photographic exchange
- **Develop interdisciplinary curriculum** to meet state-based benchmark standards for science/technological, history/social studies, and art
- **Provide support** and extra educational materials for **Ugandan** teachers

2017 to present, **Senior Enrichment Volunteer**, Abq Biopark, Albuquerque, NM

- Assist zookeepers with daily **enrichment for apes, monkeys, big cats** and several small mammals
- **Manage** and assist undergraduate volunteers



2009: **Event Coordinator**; Year of the Gorilla Benefit; Ithaca NY

- Proceeds donated to **Limbe Wildlife Center in Cameroon**
- **Initiated the event** in collaboration with with the Anthropology Club of Ithaca College and faculty to support the event

2008: **Volunteer Program Consultant**; Syracuse Lost Boys Clay Cow Project; Syracuse, NY

- **Sudanese Lost Boys of Central New York** and board members
- Project aimed to **raise scholarship funds** for group members through the sale of **folk art created by refugees**
- **Ceramic Consultant**, taught glazing and firing techniques

**PROFESSIONAL ORGANIZATIONS AND COMMITTEES:**

Tufts Postdoc Association (2020 to present), Member

Animal Behavior Society (2020 to present), Member

Advancing Womxn in Science (2017 to 2020), President and Events Manager

American Association of Physical Anthropology (2008 to present), Student Member

American Society of Primatologists (2014 to present), Student Member, Membership and Finance Committee (2018 to present), Social Media and Outreach Committee (2019 to present)

International Primatological Society (2014 to present), Student Member

UNM Anthropology Graduate Student Union (2012 to present), Subfield Representative and Conference Board (2013 to 2014)

UNM Graduate and Professional Student Union (2012 to present)

Sigma Xi Scientific Research Society (2008 to present)