

NICOLE THOMPSON GONZALEZ, Ph.D.

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Education & Training

Degree/Position	University	Field	Year
Post doctoral fellow	University of New Mexico	Anthropology <i>Project:</i> Oxidative stress and aging in wild chimpanzees	2018 – present
Ph.D.	Columbia University, New York, NY	Ecology and Evolution <i>Dissertation:</i> Social ties over the life cycle in blue monkeys	2018
M.Res.	University of Roehampton, London, UK	Primate Behavior and Biology <i>Thesis:</i> Social integration and stress in juvenile olive baboons.	2012
B.A.	Columbia University, New York, NY	Evolutionary Anthropology <i>Thesis:</i> The co-evolution of human language and morality.	2008

Peer-reviewed publications

Thompson Gonzalez, N.A., Thompson, M.E., Machanda, Z.P., Otali, E., Muller, M.N., Wrangham, R.W. (*in review*). Urinary markers of oxidative stress respond to infection and late-life in wild chimpanzees.

Thompson, M.E., Machanda, Z.P., Fox, S.A., Sabbi, K.H., Otali, E., **Thompson, N.A.**, Muller, M.N., Wrangham, R.W. (*in press*). "Evaluating the Impact of Physical Frailty During Aging in Wild Chimpanzees (*Pan troglodytes schweinfurthii*). *Phil Trans B*.

Thompson, N.A., Higham, J.P., Heistermann, M., Vogel, E., Cords, M., 2020. Energy balance but not competitive environment corresponds with allostatic load during development in an Old World monkey. *Horm. Behav.* 119, 104664. [10.1016/j.yhbeh.2019.104664](https://doi.org/10.1016/j.yhbeh.2019.104664)

Thompson, N.A., Cords, M., 2019. Early life maternal sociality predicts juvenile sociality in blue monkeys. *American Journal of Primatology*, 0(0), e23039. doi: [10.1002/ajp.23039](https://doi.org/10.1002/ajp.23039)

Thompson, N.A., 2019. Understanding the links between social ties and fitness over the life cycle in primates. *Behaviour*, 1(aop), 1-50. doi: <https://doi-org.libproxy.unm.edu/10.1163/1568539X-00003552>

DeCasien, A.R., **Thompson, N.A.**, Williams, S.A., Shattuck, M.R., 2018. Encephalization and longevity evolved in a correlated fashion in Euarchontoglires but not in other mammals. *Evolution* 72, 2617-2631. doi:[10.1111/evo.13633](https://doi.org/10.1111/evo.13633)

Thompson, NA, & Cords, M. 2018. Stronger social bonds do not always predict greater longevity in a gregarious primate. *Ecology and Evolution*. doi: [DOI:10.1002/ece3.3781](https://doi.org/10.1002/ece3.3781)

Higham J.P., Amann A.L., Bryer M.A., **Thompson N.A.**, and Winters S. 2013. Book review of: John C. Mitani, Josep Call, Peter M. Kappeler, Ryne A. Palombit, Joan B. Silk (eds): *The Evolution of Primate Societies*. *International Journal of Primatology* 34(6):1298-1303. doi: 10.1007/s10764-013-9731-7

Franks B, Reiss D, Cole P, Friedrich V, **Thompson N**, and Higgins ET. 2013. Predicting How Individuals Approach Enrichment: Regulatory Focus in Cotton-Top Tamarins (*Sanguinus oedipus*). *Zoo biology* 32(4):427-435. doi: 10.1002/zoo.21075

Book chapters* & Published Abstracts

*Cords, M., **Thompson, N.A.** 2017. Friendships, coalitions, and alliances. Chapter in: *American Psychological Association Handbook of Comparative Psychology*, Call, J., Burghardt, G.M., Pepperberg, I., Snowden, C. & Zentall, T. eds (pp. 899-914). American Psychological Association.

Thompson, N.A., Otali, E., Machanda, Z., Muller, M., Wrangham, R., & Thompson, M. E. (2020, March). Urinary markers of oxidative stress respond to infection and aging in wild chimpanzees. In *AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY* (Vol. 171, pp. 283-283).

Thompson, N.A., Otali, E., Machanda, Z., Muller, M., Wrangham, R., Emery Thompson, M. (abstract in press). Urinary markers of oxidative stress respond to infection and aging in wild chimpanzees. *Innovation in Aging*.

Thompson, N.A., Cords, M. 2014. Social influences on Longevity in Blue Monkeys. *American Journal of Physical Anthropology* 55:253-253.

Research and Work Experience

NIH IRACDA Post-Doctoral Fellow, Department of Anthropology at University of New Mexico, Albuquerque, NM. July 2018 – present.

Leading project to examine relationship between long and short-term social environments and health in aging chimpanzees. Validating measures of oxidative stress in wild chimpanzees.

Dean's and NSF IGERT Fellow, Department of Ecology, Evolution & Environmental Biology at Columbia University, New York, NY. 2012 – 2017.

Doctoral thesis on the fitness benefits of social integration over the lifespan in blue monkeys. Fieldwork, leading team of four assistants in Kakamega Forest, Kenya. Laboratory work (RIAs, ELISAs, Creatinine) at Rutgers University, the German Primate Center, and NYU.

Vice Chancellor's Scholar, Center for Research in Evolutionary Anthropology, Roehampton University, London, UK. 2010 – 2011.

Master's thesis on social development and social influences on stress biology in forest dwelling baboons. Fieldwork in Gashaka Gumti National Park, Nigeria. Laboratory work (ELISA) at Roehampton University, UK.

Field research assistant, Macaca Nigra Project, Sulawesi, Indonesia. Run by Max Planck Institute and German Primate Center. 2009 – 2010.

Field data collection of infant social behavior and paternal care. Presentations to academic and lay public. Research assistant training.

Fundraising field manager, New York Public Interest Research Group, New York, NY. 2008.

Communication with major donors. Strategic planning for fundraising. Fundraiser training.

Laboratory research assistant, Terrace Animal Cognition Lab, Columbia University Department of Psychology, New York Psychiatric Institute. 2007 – 2008.

Analysis of behavioral data from cognitive experiments. Management of laboratory logistics.

Data collection assistant, Columbia University Department of Psychology and Brooklyn Zoo. 2006 – 2007.

Data collection on captive cotton-top tamarin personality. Experiment set up.

Invited Talks

- UC Davis Animal Behavior Graduate Group special seminar: “Social strategies during primate development” April 2019.
- Central New Mexico community college outreach STEMinar: “Studying Wild Primate Sociality.” March 2019.
- UNM Biology department seminar: “The What and Why of Social Strategies during Primate Development” Feb 2019.
- Emeritus Professors in Columbia (EPIC): “The Fitness Benefits of Social Connection over the Lifespan of Blue Monkeys.” March 2018.
- Brown Beer talk at Yale University’s Department of Anthropology: “Socio-ecological drivers of allostatic load during development.” March 2017.

Teaching Experience

Head instructor:

- *Data Days* at UNM CURE 2019 & 2020. Course on data literacy and visualization for Native American students at University of New Mexico’s summer program in cancer research. Lectures and group activities using RStudio Cloud for exploration and visualization of biomedical data. Website: <http://www.nicolethompsongonzalez.com/unp-2020.html>
- *The Behavioral Biology of the Living Primates*. Semester long course, Spring 2018, Columbia University. Lectured twice weekly to class of 30 students. Managed and trained 2 teaching assistants. Wrote multiple exams and assignments. Oversaw grading and led field trips.

Workshops:

- “Using Ggplot2 to produce high quality figures in R.” Invited workshop for UNM biology advanced R seminar 9/10/19.
- *Data Days* at SIPI BRIDGE 2019. 2 full-day workshop on exploratory data analysis for Native American high school students transitioning to college at the Southwestern Indian Polytechnic Institute (SIPI). Lecture, exercises, and team projects using RStudio for exploration and visualization of data sets related to social justice.

Teaching assistant:

- *Environmental Biology I*. Fall 2014, Columbia University. Lead Instructors: Shahid Naeem and Dustin Rubenstein. Created and gave lecture on the function and evolution of the nervous system. Wrote one fourth of all exams. Graded exams and led discussion section.
- *The Behavioral Biology of the Living Primates*. Spring 2014, Columbia University. Lead Instructor: Marina Cords. Created and gave lecture on the function and evolution of the juvenile period in primates. Graded exams and led discussion sections.
- *Human Species: Its place in nature*. Fall 2013, Columbia University. Lead Instructor: Jill Shapiro. As head TA, ran discussion sections, delegated grading among TAs and trained TAs for several labs.

Teacher & mentor training

- “Difficult Discussions”— attended 1 hour workshop on 4/15/19 at UNM dealing with Title IX and VII-sensitive issues in the classroom.
 - “Culturally sensitive and inclusive teaching” – organized afternoon workshop for fellow IRACDA post-docs at UNM, held on 2/20/19 and led by Kim Fournier from UNM Center for Teaching Excellence. Practiced developing perspective and exercises to achieve maximum student engagement.
 - “Inclusion by Design” – attended 2 day workshop on 1/7–8/19 held by the Center for Teaching Excellence at UNM on designing inclusive courses and syllabi.
 - “Inclusive teaching”—attended 1 day workshop on 11/5/18 held by the Center for Teaching Excellence at UNM on designing inclusive on developing active learning exercises for a diverse classroom.
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Professional Services

Peer reviewer:

- Animal Behavior Society student research grants, 2017
- Animal Behaviour, Fall 2017 – Present
- International Journal of Primatology, Spring 2017 – Present
- Behavioral Ecology, Spring 2018 – Present
- Hormones & Behavior, Spring 2018 – Present
- Folia Primatologica, Spring 2019 – Present
- Ethology, Spring 2019 – Present
- American Journal of Primatology, Spring 2019 – Present
- Physiology & Behavior, Spring 2019 – Present
- Frontiers, Summer 2019 – Present
- Stress, Summer 2019 – Present
- Proceedings of the Royal Society Biological Sciences, Fall 2019 – Present
- Philosophical Transactions of the Royal Society, Spring 2020 – Present
- Leakey Foundation student research grants, Spring 2020 – Present
- NSF Biological Anthropology Directorate, Spring 2020 – Present
- Royal Society Open Science – 2020

Reader for Master’s Thesis by Sara Lucci at City University New York Hunter, 2019

Judge for graduate student poster competition of Biomedical Sciences Graduate Student Society at UNM, Spring 2019.

Organizer of weekly journal club attended by students and faculty of the Evolutionary Anthropology subfield at UNM, Fall 2019 – Present.

Grants awarded

Louis Leakey Foundation (student research grant 2016)	\$14,856.00
Animal Behavior Society (student research grant 2016)	\$1,000.00
American Society of Primatologists (student research grant 2016)	\$1,500.00
Diversity Scholar, RStudio Conference 2019	\$3,000.00

Honors and Awards

- Northeastern Evolutionary Primatology Group, Best student podium presentation (runner-up) 2016
- International Primatological Society/American Society of Primatologists Annual Conference, Student Presentation Award (Finalist), 2016
- Dean’s Fellowship, Columbia University, 2012
- NSF IGERT Fellowship, New York Consortium in Evolutionary Primatology, 2012

- Vice Chancellor's Scholarship, Roehampton University, 2010
- Most Outstanding Bachelor's Thesis, Columbia University E3B Department, 2008

Languages and Proficiencies

Spanish (proficient), Swahili and Indonesian (conversational). Statistical programming in R (advanced).

Leadership and Outreach

Co-founder. Swift Advocacy for Viable Environments (SAVE), Kenya. Educational outreach. 2013 – Pres.

Instructor. Girls Science Day and Saturday Science Starters at Columbia University. Fall 2013, 2016, Spring 2014.

Instructor. Grant proposal writing workshop for Muleshi Food Security Women's Group, Isecheno, Kenya. Jan 9, 2016.

Curriculum and volunteer coordinator. Children's Education, C3 Manhattan. 2013 – 2015 (2 yrs).

Volunteer data scientist. Enhancing donor outreach with clustering models for NOMI Network. Nov 2017 – Spring 2018.