

Drew K. Enigk
Curriculum Vitae, May 2021

Department of Anthropology
University of New Mexico
Albuquerque, New Mexico 87131

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Education

- 2012 - 2021 Ph.D. in evolutionary anthropology, M.S. achieved in 2015
Department of Anthropology, University of New Mexico, Albuquerque, NM
- 2012 B.S. in agriculture, *summa cum laude*
Major in animal sciences; Minors in physical anthropology, neuroscience, and life sciences
Department of Animal Sciences, Ohio State University, Columbus, OH

Research and Field Experience

- 2012 - 2021 Behavioral strategies of social relationship formation and competition among adolescent and adult male chimpanzees at Kanyawara, Kibale National Park, Uganda, *Dissertation research*
Two dissertation pilot studies (Jun-Aug 2013; May-Aug 2014), and two dissertation field studies (Jan-Aug 2015; Jan-Aug 2016) of the Kanyawara chimpanzee community
Committee members: Martin Muller (University of New Mexico, UNM), Melissa Emery Thompson (UNM), Siobhán Mattison (UNM), and Ian Gilby (Arizona State University)
Kibale Chimpanzee Project, Kibale National Park, Uganda
- 2010 - 2012 Cross-sectional investigation of non-kin affiliation in bonobos, *Undergraduate research*
Mentors: Dawn Kitchen (Ohio State University), Frances White (University of Oregon), and Klaree Boose (University of Oregon)
Columbus Zoo and Aquarium, Powell, OH
- 2010 Comparative behavior of Grevy's zebras and Somali wild asses, *Research intern*
Principal Investigator: Cheryl Asa, Director of Research
Saint Louis Zoo, Research Department, St. Louis, MO
- 2009 Human-animal interactions in the turkey industry, *Research assistant*
Principal Investigator: Naomi Botheras, Animal Welfare Extension Specialist
Ohio State University, Department of Animal Sciences, Columbus, OH

Grants and Fellowships

- 2020 UNM Department of Anthropology Graduate Student Travel Grant (\$500)
- 2019 Graduate and Professional Student Association Professional Development Grant (\$471.69)
- 2018 UNM Department of Anthropology Graduate Student Travel Grant (\$500)
- 2017 UNM Department of Anthropology Graduate Student Travel Grant (\$500)
- 2012 - 2015 National Science Foundation Graduate Research Fellowship
(\$32,000 annual stipend and \$12,000 annual cost-of-education allowance)
- 2012 - 2013 The Honor Society of Phi Kappa Phi Marcus L. Urann Fellowship (\$15,000)

Publications

Enigk, D.K., Emery Thompson, M., Machanda, Z.P., Wrangham, R.W., & Muller, M.N. (2021). Female-directed aggression by adolescent male chimpanzees primarily constitutes dominance striving, not sexual coercion. *American Journal of Physical Anthropology*. DOI: 10.1002/ajpa.24296

Muller, M.N., **Enigk, D.K.**, Fox, S.A., Lucore, J., Machanda, Z.P., Wrangham, R.W., & Emery Thompson, M. (2021). Aggression, glucocorticoids, and the chronic costs of status competition for wild male chimpanzees. *Hormones and Behavior*, 130:104965. DOI: 10.1016/j.yhbeh.2021.104965

Rosati, A.G., Hagberg, L., **Enigk, D.K.**, Otali, E., Emery Thompson, M., Muller, M.N., Wrangham, R.W., & Machanda, Z. (2020). Social selectivity in aging wild chimpanzees. *Science*, 370, 473–476. DOI: 10.1126/science.aaz9129

Muller, M.N., Blurton-Jones, N.G., Colchero, F., Emery Thompson, M., **Enigk, D.K.**, Feldblum, J.T., Hahn, B.H., Langergraber, K.E., Scully, E.J., Vigilant, L., Walker, K.K., Wrangham, R.W., Wroblewski, E.E., & Pusey, A.E. (2020). Sexual dimorphism in chimpanzee (*Pan troglodytes schweinfurthii*) and human age-specific fertility. *Journal of Human Evolution*, 144:102795. DOI: 10.1016/j.jhevol.2020.102795

Enigk, D.K., Emery Thompson, M., Machanda, Z.P., Wrangham, R.W., & Muller, M.N. (2020). Competitive ability determines coalition participation and partner selection during maturation in wild male chimpanzees (*Pan troglodytes schweinfurthii*). *Behavioral Ecology and Sociobiology*, 74, 89. DOI: 10.1007/s00265-020-02872-7

Emery Thompson, M., Fox, S., Berghänel, A., Sabbi, 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, 8424–8430. DOI: 10.1073/pnas.1920593117

Emery Thompson, M., Machanda, Z.P., Scully, E.J., **Enigk, D.K.**, Otali, E., Muller, M.N., Goldberg, T.L., Chapman, C.A., & Wrangham, R.W. (2018). Risk factors for respiratory illness in a community of wild chimpanzees (*Pan troglodytes schweinfurthii*). *Royal Society Open Science*, 5:180840. DOI: 10.1098/rsos.180840

Fedurek, P., Slocombe, K.E., **Enigk, D.K.**, Emery Thompson, M., Wrangham, R.W., Muller, M.N., (2016). The relationship between testosterone and long-distance calling in wild male chimpanzees. *Behavioral Ecology and Sociobiology*, 70, 659–672. DOI: 10.1007/s00265-016-2087-1

Professional Presentations (selected)

National, Regional, and Departmental Conference Presentations

- Apr 2019 American Association of Physical Anthropologists, *Cleveland, OH*
Podium: “*Competitive ability complements coalition formation in wild male chimpanzees*”
Collaborators: Emery Thompson, M., Machanda, Z.P., Otali, E., Wrangham, R.W. & Muller, M.N.
- Apr 2018 American Association of Physical Anthropologists, *Austin, TX*
Podium: “*The development of male-female dominance relationships in wild chimpanzees*”
Collaborators: Emery Thompson, M., Machanda, Z.P., Otali, E., Wrangham, R.W. & Muller, M.N.
- Apr 2017 American Association of Physical Anthropologists, *New Orleans, LA*
Podium: “*Adolescent male aggression toward adult females represents dominance striving, not sexual coercion, in wild chimpanzees*”
Collaborators: Emery Thompson, M., Machanda, Z.P., Wrangham, R.W. & Muller, M.N.

- Nov 2014 Southwestern Association of Biological Anthropologists, *Tucson, AZ*
Podium: “*Male chimpanzees increasingly target adult males for dyadic social interactions during adolescence in Kibale National Park, Uganda*”
Collaborators: Emery Thompson, M., Machanda, Z.P., Wrangham, R.W. & Muller, M.N.
- Apr 2014 American Association of Physical Anthropologists, *Calgary, Alberta, Canada*
Poster: “*Increased preference for spatial association with adult males during adolescence in wild male chimpanzees (Pan troglodytes)*”
Collaborators: Muller, M.N., Machanda, Z.P., Wrangham, R.W. & Emery Thompson, M.
- Oct 2011 Midwest Primate Interest Group, *Kent, OH*
Podium: “*Cross-sectional investigation of non-kin affiliation in bonobos*”
Collaborators: Kitchen, D.M., White, F.J. & Boose, K.J.

International Conference Presentations

- Aug 2016 International Primatological Society, *Chicago, IL, USA*
Podium: “*Competitive constraints on male chimpanzee association patterns at Kanyawara, Kibale National Park, Uganda*”
Collaborators: Emery Thompson, M., Machanda, Z.P., Wrangham, R.W. & Muller, M.N.
- Aug 2014 International Primatological Society, *Hanoi, Vietnam*
Podium: “*Adolescent males are responsible for dyadic social interactions with adult males in wild chimpanzees (Pan troglodytes schweinfurthii) in Kibale National Park, Uganda*”
Collaborators: Emery Thompson, M., Machanda, Z.P., Wrangham, R.W. & Muller, M.N.
- Nov 2011 Simpósio Internacional de Iniciação Científica, *São Paulo, Brazil*
Poster: “*Comparative behavior of Grevy's zebras and Somali wild asses*”
Ohio State University Brazil Research Exchange Program
Collaborators: Asa, C.S. & Bauman, K.L.

Work and Teaching Experience

- Jan - May 2021 Introduction to Biological Anthropology, ANTH 1135L (online lab), *Instructor*
UNM, Department of Anthropology, Albuquerque, NM
- Aug - Dec 2020 Introduction to Biological Anthropology, ANTH 1135L (online lab), *Instructor*
UNM, Department of Anthropology, Albuquerque, NM
- Jan - May 2020 The Human Life Course, ANTH 160/1170 (lecture), *Graduate Assistant*
Instructor: Dr. Melissa Emery Thompson
UNM, Department of Anthropology, Albuquerque, NM
- Aug - Dec 2019 Evolution and Human Emergence, ANTH 150/1135 (lecture), *Graduate Assistant*
Instructor: Dr. Keith Hunley
UNM, Department of Anthropology, Albuquerque, NM
- Jan - May 2019 Evolution and Human Emergence, ANTH 150 (lecture), *Graduate Assistant*
Instructor: Dr. Sherry Nelson
UNM, Department of Anthropology, Albuquerque, NM

- Aug - Dec 2018 Evolution and Human Emergence, ANTH 150 (lecture), *Graduate Assistant*
Instructor: Dr. Keith Hunley
UNM, Department of Anthropology, Albuquerque, NM
- Jan - May 2018 Human Behavioral Ecology, ANTH 360 (lecture), *Graduate Assistant*
Instructor: Dr. Martin Muller
UNM, Department of Anthropology, Albuquerque, NM
- Aug - Dec 2017 Evolution and Human Emergence, ANTH 150 (lecture), *Graduate Assistant*
Instructor: Dr. Keith Hunley
UNM, Department of Anthropology, Albuquerque, NM
- Jan - May 2017 Great Apes: Mind and Behavior, ANTH 362 (lecture), *Graduate Assistant*
Instructor: Dr. Melissa Emery Thompson
UNM, Department of Anthropology, Albuquerque, NM
- Aug - Dec 2016 Evolution and Human Emergence, ANTH 150 (lecture), *Graduate Assistant*
Instructor: Dr. Keith Hunley
UNM, Department of Anthropology, Albuquerque, NM
- Jan - May 2016 Evolution and Human Emergence, ANTH 150 (online), *Graduate Assistant*
Instructor: Dr. Keith Hunley
UNM, Department of Anthropology, Albuquerque, NM
- Sep - Dec 2015 Evolution and Human Emergence, ANTH 150 (lecture), *Graduate Assistant*
Instructor: Dr. Keith Hunley
UNM, Department of Anthropology, Albuquerque, NM
- Jan - May 2013 The Human Life Course, ANTH 160 (online), *Graduate Assistant*
Instructor: Dr. Melissa Emery Thompson
UNM, Department of Anthropology, Albuquerque, NM
- Aug - Dec 2012 Human Behavioral Ecology, ANTH 360 (online), *Graduate Assistant*
Instructor: Dr. Martin Muller
UNM, Department of Anthropology, Albuquerque, NM
- Sep - Dec 2010 Introductory Animal Sciences, ANIMSCI 200 (lecture and lab),
Undergraduate Teaching Assistant
Instructor: Dr. Pasha Lyvers Peffer
Ohio State University, Department of Animal Sciences, Columbus, OH

Invited lectures to discuss chimpanzee behavior and conservation with the public (selected)

- Sep 24, 2019 Undergraduate students in Dr. Keith Hunley's Evolution and Human Emergence course (ANTH 150/1135) at the University of New Mexico, *Albuquerque, NM, USA*
- May 3, 2019 Undergraduate students in Dr. Sherry Nelson's Evolution and Human Emergence course (ANTH 150) at the University of New Mexico, *Albuquerque, NM, USA*
- Apr 6, 2017 Undergraduate students in Dr. Melissa Emery Thompson's Great Apes: Mind and Behavior course (ANTH 362) at the University of New Mexico, *Albuquerque, NM, USA*

- Apr 5, 2017 Students at Manzano High School, *Albuquerque, NM, USA*
- Dec 6, 2016 Undergraduate students in Dr. Melissa Emery Thompson’s Primate Social Behavior course (ANTH 363) at the University of New Mexico, *Albuquerque, NM, USA*
- Jan 11, 2016 Undergraduate students with the Hunter College field school (African Primates: Diversity, Ecology and Conservation), *Makerere University Biological Field Station (MUBFS), Kibale National Park (KNP), Uganda*
- Aug 12, 2015 Primary schoolchildren and other residents of the Acholi Quarter, *Kampala, Uganda*
- Jul 30, 2015 Undergraduate students from the U.K. with Far Frontiers Expeditions, *MUBFS, KNP, Uganda*
- Jul 24, 2015 High school students from the U.K. with Wildlife Worldwide, *MUBFS, KNP, Uganda*
Co-presenter: Kris Sabbi (University of New Mexico)
- Jun 8, 2015 Veterinary students from the Makerere University College of Veterinary Medicine and the Mississippi State University College of Veterinary Medicine, *MUBFS, KNP, Uganda*
Co-presenter: Erik Scully (Harvard University)
- Apr 9, 2015 Chimpanzee Conservation Workshop attendees, including Uganda Wildlife Authority rangers, snare removal teams, and UNITE for the Environment representatives, *MUBFS, KNP, Uganda*
- Feb 5, 2015 High school students from the International School of Uganda, *MUBFS, KNP, Uganda*
Co-presenters: Kris Sabbi (University of New Mexico), Claudia Wilke (University of York), and Nigel Wrangham (University of Oregon)
- Aug 1, 2014 Chimpanzee Behavior and Ecology Research Symposium attendees, *MUBFS, KNP, Uganda*
- Jun 7, 2013 Anthropology in Uganda Workshop attendees, including graduate students from various universities in Uganda, *MUBFS, KNP, Uganda*

Public Service and Community Activities

- Aug 2017 – May 2018 Anthropology Graduate Student Union, *Evolutionary Anthropology Representative*
I communicated the concerns of the evolutionary anthropology graduate student body at general meetings and assisted with the planning of the organization’s annual research conference, including an “Up-Goer Five” session that I organized and moderated.
- Feb 2017 – Mar 2020 Albuquerque BioPark Zoo, *Enrichment Volunteer and Shift Leader*
I designed and painted interactive enrichment items made from cardboard boxes, paper tubes, and other recyclable materials for the primates and additional species at the zoo. I also supervised several undergraduate students during my weekly craft-making shift.
- Sep 2014 – Sep 2019 Project Have Hope, *Fundraising Volunteer*
I staffed a booth at Globalquerque: New Mexico’s Annual Celebration of World Music and Culture every September to assist Karen Sparacio, the director of Project Have Hope, with the sale of paper bead jewelry and other crafts created by women living in the Acholi Quarter of Kampala, Uganda.