

Drew K. Enigk
Curriculum Vitae, April 2025

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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)
- 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

- Muller, M.N., Sabbi, K.H., Emery Thompson, M., **Enigk, D.K.**, Hagberg, L., Machanda, Z.P., Menante, A., Otali, E., & Wrangham, R.W. (2024). Age-related reproductive effort in male chimpanzees: terminal investment or alternative tactics? *Animal Behaviour*, 213, 11–21. DOI: doi.org/10.1016/j.anbehav.2024.04.002
- Fox, S., Muller, M.N., Thompson González, N., **Enigk, D.K.**, Machanda, Z.P., Otali, E., Wrangham, R. & Emery Thompson, M. (2022). Weak, but not strong, ties support coalition formation among wild female chimpanzees. *Philosophical Transactions of the Royal Society B*, 378, 20210427. DOI: 10.1098/rstb.2021.0427
- Thompson González, N., Machanda, Z., Otali, E., Muller, M.N., **Enigk, D.K.**, Wrangham, R. & Emery Thompson, M. (2021). Age-related change in adult chimpanzee social network integration. *Evolution, Medicine, and Public Health*, 9, 448–459. DOI: 10.1093/emph/eoab040
- 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*, 176, 66–79. 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), <i>Graduate Assistant</i> Instructor: Dr. Melissa Emery Thompson UNM, Department of Anthropology, Albuquerque, NM
Aug - Dec 2019	Evolution and Human Emergence, ANTH 150/1135 (lecture), <i>Graduate Assistant</i> Instructor: Dr. Keith Hunley UNM, Department of Anthropology, Albuquerque, NM
Jan - May 2019	Evolution and Human Emergence, ANTH 150 (lecture), <i>Graduate Assistant</i> Instructor: Dr. Sherry Nelson UNM, Department of Anthropology, Albuquerque, NM
Aug - Dec 2018	Evolution and Human Emergence, ANTH 150 (lecture), <i>Graduate Assistant</i> Instructor: Dr. Keith Hunley UNM, Department of Anthropology, Albuquerque, NM
Jan - May 2018	Human Behavioral Ecology, ANTH 360 (lecture), <i>Graduate Assistant</i> Instructor: Dr. Martin Muller UNM, Department of Anthropology, Albuquerque, NM
Aug - Dec 2017	Evolution and Human Emergence, ANTH 150 (lecture), <i>Graduate Assistant</i> Instructor: Dr. Keith Hunley UNM, Department of Anthropology, Albuquerque, NM
Jan - May 2017	Great Apes: Mind and Behavior, ANTH 362 (lecture), <i>Graduate Assistant</i> Instructor: Dr. Melissa Emery Thompson UNM, Department of Anthropology, Albuquerque, NM
Aug - Dec 2016	Evolution and Human Emergence, ANTH 150 (lecture), <i>Graduate Assistant</i> Instructor: Dr. Keith Hunley UNM, Department of Anthropology, Albuquerque, NM
Jan - May 2016	Evolution and Human Emergence, ANTH 150 (online), <i>Graduate Assistant</i> Instructor: Dr. Keith Hunley UNM, Department of Anthropology, Albuquerque, NM
Sep - Dec 2015	Evolution and Human Emergence, ANTH 150 (lecture), <i>Graduate Assistant</i> Instructor: Dr. Keith Hunley UNM, Department of Anthropology, Albuquerque, NM
Jan - May 2013	The Human Life Course, ANTH 160 (online), <i>Graduate Assistant</i> Instructor: Dr. Melissa Emery Thompson UNM, Department of Anthropology, Albuquerque, NM
Aug - Dec 2012	Human Behavioral Ecology, ANTH 360 (online), <i>Graduate Assistant</i> Instructor: Dr. Martin Muller UNM, Department of Anthropology, Albuquerque, NM
Sep - Dec 2010	Introductory Animal Sciences, ANIMSCI 200 (lecture and lab), <i>Undergraduate Teaching Assistant</i> Instructor: Dr. Pasha Lyvers Pepper Ohio State University, Department of Animal Sciences, Columbus, OH

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

- Mar 24, 2021 Members of the Behaviour and Evolution Research Group at the University of Stirling, *virtual presentation*
- 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*

Certificates & Training

- 2024 Make an Impact with Modern Geo Apps Massive Open Online Course (MOOC) Certificate, *Esri*
- 2024 Spatial Data Science: The New Frontier in Analytics MOOC Certificate, *Esri*

2024	GIS for Climate Action MOOC Certificate, <i>Esri</i>
2024	Cartography MOOC Certificate, <i>Esri</i>
2024	Going Places with Spatial Analysis MOOC Certificate, <i>Esri</i>
2022	Next Level Grant Training, <i>Grant Professionals Association</i>
2022	Nonprofit Management Certificate, <i>Arizona State University</i>
2021	Responsible Conduct of Research Certificate, <i>University of New Mexico</i>