

University of Oxford

Primate Models for Behavioural Evolution Lab
Institute of Cognitive and Evolutionary Anthropology
School of Anthropology and Museum Ethnography
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Lydia V. Luncz, PhD

Curriculum Vitae

Nationality: German

Languages: German, English, French, Thai (basic)

Main fields of research: Human Evolution, Primatology, Archaeology, Biological Anthropology

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<https://primobevolab.web.ox.ac.uk>

EDUCATION

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|-------------|---|
| 2014 | PhD , Max Planck Institute for Evolutionary Anthropology and University of Leipzig, Germany.
Supervisor: Prof Christophe Boesch (Grade: <i>summa cum laude</i>). |
| 2006 | M.Sc , Evolutionary Biology, University of Constance, Germany. |
| 2003 | B.Sc , Biology, University of Constance, Germany. |

PROFESSIONAL EXPERIENCE

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| 2017-present | Leverhulme Early Career Research Fellow , Institute of Cognitive and Evolutionary Anthropology, University of Oxford. |
| 2017 | Tutor , Mansfield College, University of Oxford, United Kingdom. |
| 2016-2017 | Research Stipend Award , DPZ Primate Center, Göttingen, Germany. |
| 2014-2016 | Post-doctoral Researcher , School of Archaeology, University of Oxford, United Kingdom. |
| 2013-2014 | Research Scientist , Max Planck Institute for Evolutionary Anthropology, Leipzig, Germany. |
| 2007-2013 | Doctoral studies , supervised by Prof. Christophe Boesch, Max Planck Institute for Evolutionary Anthropology, Leipzig, Germany. |
| 2009-2010 | Scientific advisor , DisneyNature "The Chimpanzee" |
| 2006-2007 | Primatologist , Chimpanzee Conservation Center, Haute Niger National Park, Guinea |
| 2005 | Primate enrichment coordinator , Wildlife Waystation, Sylmar, California. |
| 2004 | Research assistant , H.E.L.P. Congo, Chimpanzee Sanctuary, National Park Conkouati-Douli, Republic of Congo. |

JOURNAL ARTICLES

- Proffitt T., Haslam M., Mercader J.F., Boesch C., **Luncz L.V.** (2018): Revisiting Panda 100, the first archaeological chimpanzee nut-cracking site. *Journal of Human Evolution*, DOI: 10.1016/j.hevol.2018.04.016
- Svensson M., Nekaris K.A.I., Bearder S., Bettridge C., Butynski T., Cheyne S., Das N., de Jong Y., Luhrs A., **Luncz L.V.**, Maddock T., Perkin A., Pimley E., Poindexter S., Reinhardt K., Spaan D., Stark D., Starr C., Nijman

- V. (2018): Sleep patterns, daytime predation, and the evolution of diurnal sleep site selection in loriforms. *American Journal of Physical Anthropology*, 166 (3), 563-577.
- Proffitt T., **Luncz L.V.**, Malaivijitnond S., Gumert M., Svensson M., Haslam M. (2018): Analysis of wild macaque stone tools used to crack oil palm nuts. *Royal Society Open Science*, DOI: 10.1098/rsos.171904. [OA]
- Luncz L.V.**, Sirianni G., Mundry R., Boesch C. (2018): Costly culture: differences in nut-cracking efficiency between wild chimpanzee groups. *Animal Behaviour*, 137:63-73.
- Stewart F.A., Piel A.K, **Luncz L.V.**, Osborn J., Li Y., Hahn B.H., Haslam M. (2018): DNA recovery from wild chimpanzee tools. *PloS One*, 13 (1), doi:10.1371/journal.pone.0189657. [OA]
- Luncz L.V.**, Tan A., Haslam M., Kulik L., Proffitt T., Malaivijitnond S., Gumert M. (2017): Resource depletion through primate stone technology. *eLife*, doi:10.7554/eLife.23647. [OA]
- Luncz L.V.**, Svensson M., Haslam M., Malaivijitnond S., Proffitt T., Gumert M. (2017): Technological response of wild macaques (*Macaca fascicularis*) to anthropogenic change. *International Journal of Primatology*, 38(5), 872-880.
- Haslam M., Hernandez-Aguilar A., Proffitt T., Arroyo A., Falótico F., Frigaszy D., Gumert M., Harris J., Huffman M., Kalan A., Malaivijitnond S., Matsuzawa T., McGrew W., Ottoni E., Pascual-Garrido A., Piel A., Pruetz J., Schuppli C., Stewart F., Tan A., Visalberghi E., **Luncz L.V.** (2017): Primate Archaeology Evolves. *Nature: Ecology and Evolution*, 1 (10), 1431-1437. doi:10.1038/s41559-017-0286-4.
- Luncz L.V.**, Haslam M. (2017): `Latent solutions` are untestable for early stone tools. *Current Anthropology*, 58 (5), 656-657. [Reply to Tennie et al. 2017, Current Anthropology, 58 (5), 664-672].
- Falótico T., **Luncz L.V.**, Svensson M., Haslam M. (2017): Cashew nut positioning during stone tool use in wild bearded capuchin monkeys (*Sapajus libidinosus*). *Primates*, 87:392-397, doi:10.1159/000459621.
- Luncz L.V.**, Proffitt T., Kulik L., Haslam M., Wittig R. (2016): Distance-decay effect in stone tool transport by wild chimpanzees, *Proceedings of the Royal Society B*, 283, doi:10.1098/rspb.2016.1607.
- Falótico T., Spangoletti N., **Luncz L.V.**, Haslam M., Malaivijitnond S., Gumert M. (2016): Analysis of sea almonds (*Terminalia catappa*) nut cracking sites used by wild Burmese long-tailed macaques (*Macaca fascicularis aurea*). *American Journal of Primatology*, 79 (5), doi: 10.1002/ajp.22629.
- *Proffitt T., ***Luncz L.V.** (*shared first author), Falótico T., Ottoni E., de la Torre I., Haslam M. (2016): Wild monkeys flake stone tools. *Nature*, 539, 85-88, doi:10.1038/nature20112.
- Luncz L.V.**, Falótico T., Pascual-Garrido A., Corat C., Mosley H., Haslam M. (2016): Wild capuchin monkeys adjust percussive tool selection according to changing nut properties. *Scientific Reports*, doi: 10.1038/srep33089. [OA]
- Haslam M., **Luncz L.V.**, Staff R., Bradshaw F., Ottoni E., Falótico T. (2016): Pre-Columbian Monkey Tools. *Current Biology*, 26 (13), R515-R522.
- Haslam M., **Luncz L.V.**, Pascual-Garrido A., Falótico T., Malaivijitnond S., Gumert M. (2016): Archaeological excavation of wild macaque stone tools, *Journal of Human Evolution*, 96, 134-138.
- Tan A., **Luncz L.V.**, Haslam M., Malaivijitnond S., Gumert M. (2016): Complex processing of prickly pear cactus (*Opuntia sp*) by free-ranging long-tailed macaques: preliminary analysis of hierarchical organisation. *Primates*, DOI: 10.1007/s10329.
- Luncz L.V.**, Wittig R., Boesch C. (2015): Primate archaeology reveals cultural transmission in wild chimpanzees (*Pan troglodytes verus*), *Philosophical Transaction of the Royal Society B*, 370(1682): 20140348. DOI: 10.1098/rstb.2014.0348.

Luncz L.V., Boesch C. (2015): The extent of cultural variation between adjacent chimpanzee (*Pan troglodytes verus*) communities; a microecological approach, *American Journal of Physical Anthropology*, DOI: 10.1002/ajpa.22628

Luncz L.V., Boesch C. (2014): Tradition over trend: Neighboring chimpanzee communities maintain differences in cultural behavior despite frequent female immigration, *American Journal of Primatology*, DOI: 10.1002/ajp.22259.

Luncz L.V., Mundry R., Boesch C. (2012): Evidence of Cultural Differences between Neighboring Chimpanzee Communities, *Current Biology*, 22 (10), 922-926.

Málaga-Trillo E., Solis G.P., Schrock Y., Geiss C., **Luncz L.**, et al. (2009) Regulation of Embryonic Cell Adhesion by the Prion Protein. *PLoS Biol* 7(3).

BOOK CHAPTERS

Haslam M., Falotico T., **Luncz L.V.** (2018): Recognizing culture in wild primate tool use. *Evolution of wild Primate Social Cognition*, DOI:10.1007/978-3-319-93776-2_13.

SELECTED CONFERENCE TALKS AND SYMPOSIA

Luncz L., Svensson M., Malaivijitnond S., Gumert M. (2017): Long-tailed macaque tool use. A cultured behaviour? 7th Congress of European Federation for Primatology (21-25 August), Strasbourg, France.

Luncz L., Wittig R., Boesch C. (2016): Culture in a nut shell: Social influence on percussive tool selection in wild chimpanzees (*Pan troglodytes verus*). Keynote speaker, Understanding Chimpanzees IV - Chimpanzees in Context (18-20 August), Chicago, USA.

Luncz L., Gumert M., Haslam M. (2016): Percussive tool experiments highlight behavioural diversity in wild monkey populations. International Primatological Society Congress (21-28 August), Chicago, USA.

Luncz L., Tan A., Haslam M., Malaivijitnond S., Gumert M. (2016) Diversity of tool use in wild macaques (*Macaca fascicularis*), Primate Archaeology Conference (27-28 June), Oxford, UK.

Luncz L., Wittig R., Boesch C. (2015): Cultural transmission of percussive tool selection in immigrating chimpanzees (*Pan troglodytes verus*). Primate Society of Great Britain, Winter meeting (2 December), London, UK.

Luncz L., Falotico T., Ottoni, E., Haslam M. (2015): Seasonal variation of food properties influences tool selection in wild capuchin monkeys (*Sapajus libidinosus*) at Serra da Capivara National Park, Brazil, 6th Congress of European Federation for Primatology (25-28 August), Rome, Italy.

Luncz L. (2015): Transmission of tool use in chimpanzees, International Conference of The Evolution of Tool Use (3 August), Oxford, UK.

Luncz L., Boesch C. (2014): The influence of culture on tool selection in chimpanzees, International Conference of Percussive Technology in Human Evolution, (18-19 August), London, UK.

Luncz L., Boesch C. (2013): Persistent, group-specific tool selection in wild chimpanzees, 1st International Student Conference on Behaviour and Cognition, (2-3 December), Göttingen, Germany.

Luncz L., Boesch C. (2013): Conformity to Group Specific Tool Use in Neighboring Chimpanzee Communities, 5th Congress of European Federation for Primatology, (10-13 September), Antwerp, Belgium.

Luncz L., Mundry R., Boesch C. (2011): Cultural variation and maintenance of traits among neighboring chimpanzee (*Pan troglodytes verus*) communities in Côte d'Ivoire, West-Africa, 4th Congress of European Federation for Primatology, (14-17 September), Almada, Portugal.

Luncz L.V., Boesch C. (2010): Cultural variation in nut-cracking behavior among neighboring chimpanzee (*Pan troglodytes verus*) communities in Côte d'Ivoire, West-Africa, International Primatological Society XXIII Congress, (12-18 September), Kyoto, Japan.

INVITED SPEAKER

Luncz L. (2018): Material culture in wild chimpanzees. (17 October), Department of Bioscience, University of Oslo, Norway.

Luncz L. (2018): Primate Archaeology: Tracing percussive tools through time. Department seminar (20 April), Archaeological Research Centre and Museum for Human Behavioural Evolution, Neuwied, Germany.

Luncz L. (2017): Tool use: a window into material culture of primates. Primate Conversations Seminar Series (16 November), University of Oxford, UK.

Luncz L. (2017): Making silent stones speak: What stone tools tell us about behaviour. Primate Conservation Seminar Series (25 September), Brookes University, UK.

Luncz L. (2017): Resource depletion through macaque stone tool use. British Science Festival. Press Conference participant, Brighton, UK

Luncz L. (2017): Stone tools: a window into cultural behaviour of primates (22 May), Department of Anthropology, University of Zurich, Switzerland.

Luncz L. (2017): Primate Archaeology (24 March), Institute of Psychology, University of Sao Paulo, Sao Paulo, Brazil.

Luncz L. (2016): When stones speak: What stone tools tell us about primate behaviour. Monkey Monday Seminar Series, (12 December), Oxford Brookes University, UK.

Luncz L. (2016): Cultural diversity in neighboring chimpanzee groups (4 October), Biological Anthropology Research Seminar, University College London, UK.

Luncz L. (2016): Cultural Transmission of tool selection in wild chimpanzees (*Pan troglodytes verus*) (27 April), Biological Anthropology Seminar Series, University of Cambridge, UK.

Luncz L. (2015): Cultural diversity in chimpanzees, Primate Conservation Seminar Series (13 February), Oxford Brookes University, UK.

Luncz L. (2015): Comparative Analysis of cultural variation among neighboring chimpanzee communities. Anthropology Research Seminar (10. February), University of Kent, UK.

Luncz L. (2012): Cultural diversity among neighboring chimpanzee communities in Côte d'Ivoire, Zoo LAB meeting, Department of Developmental and Comparative Psychology, (16 May), Wolfgang Köhler Primate Research Center, Leipzig, Germany.

Luncz L. (2011): Cultural diversity in tool use among neighboring chimpanzee (*P.t. verus*) communities, Department Seminar, (17 June 2011), Leverhulme Centre for Human Evolutionary Studies, University of Cambridge, UK.

Luncz L. (2011): Culture in chimpanzees – Behavioral variation in tool use among neighboring communities, Think different Seminar, (13 May), Zoology Institute, University of Basel, Switzerland.

FIELD WORK EXPERIENCE

Côte d'Ivoire: 2007-2018: Cultural behaviour and archaeological research in wild chimpanzees (*Pan troglodytes verus*).

Republic of Guinea	2006-2007: Behavioural evaluation of released chimpanzees. Chimpanzee Conservation Centre, Haute Niger National Park.
Republic of Congo	2004: Released chimpanzees (<i>Pan troglodytes troglodytes</i>) behavioural observation. Conkouati-Douli National Park
Thailand	2014-2018 Jan-Mar: Wild macaque (<i>Macaca fascicularis aurea</i>) observation, archaeological research and field experiments. Ao Phang Nga National Park and Sam Roi Yot National Park.
Brazil	2014-2018: Capuchin (<i>Sapajus libidinosus</i>) behavioural observation and field experiments. 2014: Excavation of capuchin nut cracking sites. Serra da Capivara National Park.

TEACHING AND SUPERVISION

2017-present	Tutor: Human Sciences, Mansfield College, University of Oxford, UK.
2018	Guest lecturer: Human Genetics and Evolution, University of Oxford, UK.
2018	Guest lecturer: Primate Societies: Tool use, cognition and culture in primates, Oxford Brookes University, UK.
2016	Guest lecturer: Primate behaviour in ecological contexts, University of Birmingham, UK.
2015	Guest lecturer: Master of Science, University of Oxford, UK
2014	Guest lecturer: Master of Science, Primate Research, University of Leipzig, Germany
2012-2014	Guest lecturer: Master of Science, Primate Behavioural Ecology, University of Leipzig, Germany
2013	Guest lecturer: Primate Behaviour, International Max Planck Research School, Leipzig, Germany
2012	Lecturer: Pan African workshop: Tool Use in Chimpanzees and Identification of Artifacts, Max Planck Institute for Evolutionary Anthropology, Leipzig, Germany
2011	Guest lecturer: Cultural Primatology & Introduction to Field Research, Leipzig School of Human Origin, Germany

Student Research Supervision

2018-present	Supervisor: Jenny Carter (ongoing), Undergraduate thesis, Department of Anthropology and Museum Ethnography, University of Oxford, UK.
2017-present	Co-supervisor: PhD thesis of Sarah Bell, Brookes University, Oxford, UK.
2013	Co-Supervisor: PhD thesis of Serge Soiret, University of Cocody, Ivory Coast.
2011	Supervisor: Undergraduate research project of Melanie Haupt, University of Leipzig, Germany.

AD HOC REVIEWER

Scientific reports, Current Biology, Nature, PloS One, American Journal of Physical Anthropology, Animal Behaviour, eLife, American Journal of Primatology, Primates, Behavioral Ecology, Proceedings of the Royal Society B, Leakey Foundation, Folia Primatologica, Current Anthropology, Nature Communications, Philosophical Transactions of the Royal Society B.

FELLOWSHIPS, GRANTS AND AWARDS

2018	Boise Trust Fund (£ 3000)
2017	Leverhulme Early Career Fellowship (3 years)
2015	Otto Hahn Medal, Max Planck Society (€ 7.500)
2014	German Primate Center Early Career Award (€ 13.000)
2014	American Journal of Primatology Editor's Choice Award of 2014
2013	European Federation for Primatology, Student Award (€ 300)

2007 Max Planck Society, Graduate Research Fellowship (6 years)
2007 German Academic Exchange Service Student Grant (€600)

PROFESSIONAL AFFILIATIONS

- Oxford Biological Anthropology network
- International Primatological Society (IPS)
- European Society for the Study of Human Evolution (ESHE)
- The Cultural Evolution Society (CES)
- Linacre College, University of Oxford
- Gesellschaft für Primatologie e.V (GfP, Germany)

PUBLIC OUTREACH AND SELECTED MEDIA ATTENTION

Podcasts and Radio shows:

CBC radio, Quirks and Quarks: Chimp culture
cbc.ca/video/news/audioplayer.html?clipid=2233684284
BBC world service: Making monkey history
bbc.co.uk/programmes/p0416vz1
eLife: Beware of macaques bearing stones
<https://elifesciences.org/podcast/episode43>

TV programs:

BBC news: Monkeys used stone tools 700 years ago
bbc.co.uk/news/36773966

Selected newspaper articles:

New York Times: Chimpanzees' Table Manners Vary by Group nytimes.com/2012/05/15/science/chimpanzees-table-manners-vary-by-group.html?_r=0
Discover Magazine: Chimps Share Nut-Cracking Culture discovermagazine.com/2012/dec/25-chimps-share-nut-cracking-culture
National Geographic: Oldest Non-Human Stone Tools Outside Africa Created by monkeys
<http://news.nationalgeographic.com/2016/07/capuchins-monkeys-stone-tools-archaeology/>
New York Times: Monkeys can make stone tools, but they don't use them
http://www.nytimes.com/2016/10/20/science/monkeys-stone-flakes-tools.html?_r=0
New Scientist: It took these monkeys only 13 years to learn how to crack nuts
<https://www.newscientist.com/article/2146141-it-took-these-monkeys-just-13-years-to-learn-how-to-crack-nuts/>
The Wire: Chimpanzees are Cultural Conformists
<https://thewire.in/7734/chimpanzees-are-cultural-conformists/>
The Daily Mail: Chimps don't care about keeping up with the Joneses
<http://www.dailymail.co.uk/sciencetech/article-2142471/>

Organization of Conferences and Exhibitions

- 7th Congress of European Federation for Primatology (2017), Strasbourg, France. Co-organizer Symposium: Primate Cultures: Update and new trends.
- 1st International Primate Archaeology Conference (2016), Oxford, UK.
- 2nd International Primate Archaeology Conference (2015), Oxford, UK.
- Natural History Museum Oxford (2017): Co-organizer: "Primate Tools" exhibition.
- Neanderthal Museum (2012), Germany: Exhibition Opening Night Lecture

SKILLS

Professional: R, ArcGIS, Photoshop, NextEngine laser scanner, Scan Studio, Agisoft Photogrammetry, operating total stations
First aid: Emergency field training