

Dr. Stefanie Heinicke

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Current Position

Postdoc

Group: Data-centric modeling of cross-sectoral impact (led by Dr. Mengel)

Research Domain 3: Transformation Pathways

Potsdam Institute for Climate Impact Research

Telegraphenberg A 31

P.O. Box 60 12 03

14412 Potsdam, Germany

Qualifications

- 10.2014–10.2019 **Ph.D., Max Planck Institute for Evolutionary Anthropology (MPI EVA), German Centre for Integrative Biodiversity Research (iDiv) and University Leipzig**
Dissertation: *Informing the transition to evidence-based conservation planning for western chimpanzees*
Supervisors: Dr. Hjalmar Kühl, Dr. Roger Mundry, Prof. Christophe Boesch
- 10.2011–10.2013 **M.Sc., International Nature Conservation, University Göttingen and Lincoln University, New Zealand**
- 10.2007–09.2011 **B.Sc., Biodiversity and Ecology, University Göttingen**

Publications (peer-reviewed journals)

Heinicke S, Ordaz-Németh I, Junker J ... Kühl HS. 2021. Open-access platform to synthesize knowledge of ape conservation across sites. *American Journal of Primatology*. 10.1002/ajp.23213

Heinicke S, Mundry R, Boesch C ... Kühl HS. 2019. Towards systematic and evidence-based conservation planning for western chimpanzees. *American Journal of Primatology*. 81:e23042

Heinicke S, Mundry R, Boesch C ... Kühl HS. 2019. Advancing conservation planning for western chimpanzees using IUCN SSC A.P.E.S. – the case of a taxon-specific database. *Environmental Research Letters*, 14, 064001

Heinicke S, Mundry R, Boesch C ... Kühl HS. 2019. Characteristics of positive deviants in western chimpanzee populations. *Frontiers in Ecology and Evolution*, 7:16

Voigt M, Wich SA, Ancrenaz M, Meijaard E, Abram N, Banes GL, Campbell-Smith G, d’Arcy LJ, Delgado RA, Erman A, Gaveau D, Goossens B, **Heinicke S**, ... Kühl HS. 2018. Global demand for natural resources eliminated more than 100,000 Bornean orangutans. *Current Biology*, 28, 761-769

Heinicke S, Kalan AK, Wagner OJJ, Mundry R, Lukashevich H & Kühl HS. 2015. Assessing the performance of a semi-automated acoustic monitoring system for primates. *Methods in Ecology and Evolution*, 6(7), 753-763

Kalan AK, Mundry R, Wagner OJJ, **Heinicke S**, Boesch C & Kühl HS. 2015. Towards the automated detection and occupancy estimation of primates using passive acoustic monitoring. *Ecological Indicators*, 54, 217-226

Technical report

Co-editor: IUCN SSC Primate Specialist Group. 2020. Regional action plan for the conservation of western chimpanzees (*Pan troglodytes verus*) 2020–2030. IUCN, Gland, Switzerland

In review

Ordaz-Németh I, Sop T, ... **Heinicke S**, ... Kühl HS. in review. Inferring range-wide African great ape density distribution from site-level abundances. *American Journal of Primatology*

Sop T, Cheyne SM, Bachmann M, Gatiso T, **Heinicke S**, ... Kühl HS. in review. The status of apes: a foundation for systematic, evidence-based conservation, *State of the apes: killing, capture, trade and conservation*, ed. Arcus Foundation (Arcus Foundation). Cambridge: Cambridge University Press.

Work experience

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| 10.2016-05.2020 | Scientific committee for conservation action plans for western chimpanzees in Guinea and West Africa
responsible for technical analyses, coordinated working group on chimpanzee status for workshop preparation, facilitated working group during workshop in Liberia, contributed to action plan writing, co-editor for regional action plan |
| 02.2014–08.2014 | Intern, Management of marine and coastal biodiversity in Pacific island states, German Corporation for International Cooperation (GIZ), Fiji
developed and implemented policy analysis, developed target-group specific presentation of results, participated in national NBSAP consultations |
| 09.2012–12.2012 | Research intern, Colobus Conservation, Kenya
studied human-baboon conflicts, identified conflict hotspots, developed solution strategies in cooperation with stakeholders |
| 09.2009–08.2010 | Volunteer, Sea Turtle Conservation and Eco-Tourism Project, FSL, India |

Technical skills

Software	R: generalized linear mixed models, satellite data extraction and processing, writing functions, spatial analyses, plotting (maps, 2D and 3D graphs), bootstrapping, autocorrelation, data standardization, web scraper ArcGIS/QGIS: spatial analyses, create maps, georeference maps Distance: distance sampling analysis cluster computing Python (beginner)
Methods	species distribution modelling, mixed-effects modelling, multi model inference, processing satellite data, data simulation, mapping, evaluating automated acoustic monitoring output, writing spatial prioritization algorithm
Reviewer for	International Journal of Primatology, Tropical Conservation Science, Bioacoustics
Languages	German (native), English (fluent), French (good)

Talks

- Representation of historical heat waves and drought impacts in GGCM models – preliminary results*, Cross-sectoral ISIMIP Workshop, Online, 2020
- Estimating the impact of planned infrastructure projects on chimpanzees in West Africa*, Conservation Geopolitics Forum, Oxford, UK, 2019
- Applying the positive deviance approach to conservation management*, Pathways Europe – Human Dimensions of Wildlife: Resurrecting the Wild, Goslar, Germany, 2018
- Modeling western chimpanzee densities to support regional conservation planning*, Congress of the International Primatological Society, Nairobi, Kenya, 2018
- Applying the positive deviance approach to identify sustainable social-ecological settings*, European Congress of Conservation Biology, Jyväskylä, Finland, 2018
- Western chimpanzee status: Population trend, abundance and distribution*, Regional Western Chimpanzee Action Planning Process & Workshop, Monrovia, Liberia, 2017
- Analyses pour soutenir les plans d'action pour la conservation des chimpanzés*, Atelier du plan d'action national pour la conservation des chimpanzés en Guinée, Conakry, Guinea, 2017
- Determining the influence of socio-economic conditions on the rangewide density distribution of two African and Asian ape taxa*, iDiv Annual Conference, Leipzig, Germany, 2015

Teaching

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| WS 2020/21 | guest lecture on 'Climate change' in B.Sc. course 'Introduction to behavioral biology' (in German), University Leipzig (online) |
| WS 2020/21 | guest lecture on 'Primate conservation' in M.Sc. course 'Primate behavioral ecology', University Leipzig (online) |
| WS 2019/20 | guest lecture on 'Primate ecology' in M.Sc. course 'Primate behavioral ecology', University Leipzig |
| SS 2018, SS 2019 | guest lectures on 'Behavioral economics' and 'Climate change' in B.Sc. course 'Introduction to behavioral biology' (in German), University Leipzig |

- SS 2017 teaching assistant in B.Sc./M.Sc. course ‘Introduction to Statistics and R’, weekly course for one semester, University Leipzig
- SS 2016, SS 2017 guest lecture in M.Sc. course ‘Close to research’, University Leipzig
- SS 2016, SS 2017 student assistant in course ‘Linear Models and their application in R’, MPI EVA

Grants

Travel grants to conferences and workshops

- German Academic Exchange Service, UK, 2019
- German Society for Primatology, Finland, 2018
- iDiv Science Policy Shadowing Programme, Liberia, 2017
- Research Academy Leipzig and Biotope, Guinea, 2017

Study stipend

- German Academic Exchange Service, semester at Lincoln University, New Zealand, 2012
- German Academic Scholarship Foundation (Studienstiftung des Deutschen Volkes), 2011–2013

Media outreach

- Interview for Mongabay “[10-year plan hopes to give western chimpanzees a fighting chance](#)” by Jim Tan, July 2020
- Interview for Physics World “[One-tenth of western chimps live close to planned development corridors](#)” by Kate Ravilious, September 2019
- Interview for Mongabay “[Western chimp numbers revised up to 53,000, but development threats loom](#)” by Ashoka Mukpo, May 2019
- Interview for *Deutschlandfunk Kultur* “[Forschung im Regenwald - Mit Mikrofonen den Affen auf der Spur](#)”, 2016

Extracurricular training

- Python programming, Online course, Hasso Plattner Institute, Potsdam, 2020
- Git – Version control and open source, Online course, Hasso Plattner Institute, Potsdam, 2020
- Data simulation for linear models in R, MPI EVA, Leipzig, 2018
- Handling spatial data and mapping in R, UFZ, Leipzig, 2018
- Statistical rethinking—A Bayesian course with examples in R and Stan, MPI EVA, Leipzig, 2016
- Project management, yDiv, Leipzig, 2016
- Scientific writing, MPI EVA, Leipzig, 2016
- Environmental economics, yDiv, Leipzig, 2015
- Linear Models and their application in R, MPI EVA, Leipzig, 2015

Personal interests

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| since 10.2020 | CorrelAid (network of data scientists supporting non-profit organizations)
participated in data dialogue for Ocean.Now! |
| 02.2020 | German Academic Scholarship Foundation
member of selection committee |
| 10.2014-12.2019 | Conservation Group MPI EVA, Leipzig
awareness raising activities on palm oil and illegal possession of apes as pets |

Last updated: February 2021