

David Jansen

RESEARCH SCIENTIST

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Education

University of Zurich

Zurich, Switzerland

PHD ANIMAL BEHAVIOUR AND COMMUNICATION

2009 - 2014

- Advisor: Dr. Marta Manser
- Thesis: Vocal Communication in Banded Mongoose (Mungo mungos)

Wageningen University

Wageningen, The Netherlands

MSC FOREST AND NATURE CONSERVATION - ECOLOGY

cum laude | 2003 - 2005

- Speciality: Ecology and Management
- Thesis: Diet selection of goats: - a feeding trial experiment.
 - fieldwork was done at KwaZulu-Natal University (Pietermaritzburg, South Africa)
 - Advisors: Frank van Langevelde and Fred de Boer
- Internship: Self-organising spatial patterns in mussel beds.
 - Royal Netherlands Institute for Sea Research - Spatial Ecology
 - Advisors: Frank van Langevelde and Johan van de Koppel

University of Aberdeen

Aberdeen, Scotland

SOCRATES/ERASMUS EXCHANGE PROGRAM - ECOLOGY

2004

- Funded exchange program

Wageningen University

Wageningen, The Netherlands

BSc FOREST AND NATURE CONSERVATION

2000 - 2003

- Speciality: Ecology and Management
- Thesis: The contribution of floodplains to the ecology of large herbivores.
- Advisor: Ignas Hetkonig

Experience

University of Notre Dame

Notre Dame, USA

RESEARCH SCIENTIST

2015 - present

- Conducted independent research using advanced statistical analysis, modeling, data visualization, and database querying.
- Contributed to data and statistical analysis for 7 papers
- Assisted in management of large relational database
- Assisting the PI with analysis and visualizations for grant applications
- Used R and PostgreSQL for the automation of data quality control and reports
- Consult lab members in data science skills

University of Notre Dame

Notre Dame, USA

LAB MANAGER

2014 - present

- Train and supervise 20+ undergraduate students in parasitology
- Managed the organization of sequence data of a 26000 sample project. This included the creation of a database structure, setting of secure data storage, writing protocols, and training of graduate students and post-doc researchers. Managed the organization of sequence data of a 26000 sample project. This included the creation of a database structure, setting of secure data storage, writing protocols, and training of graduate students and post-doc researchers.
- Writing of protocols for lab safety, sample storage, and data organization
- Database management
- Maintain lab organization

University of Zurich

PHD STUDENT

Zurich, Switzerland

2009 - 2013

- Behavioral observations and experiments on a wild population of Banded mongoose
- Acoustical recordings and analysis
- Consulted lab members in statistical analysis

Kalahari meerkat project

VanZylsrus, South Africa

FIELD ASSISTANT

2006 - 2009

- Behavioural observations and habitation of 3 mongooses species
- Data entry and database management
- Optimized the data quality control using Microsoft Access and writing protocols for future data managers
- Animal captures

Nova Atlantis

Pico, Azores, Portugal

FIELD ASSISTANT

2006

- Behavioural observations of multiple cetaceans species
- Data entry and database management

Field assistant

Abu Dhabi, UAE

BASS UNIVERSITY

2006

- Behavioural observations Kentish plover (*Charadrius alexandrinus*)
- Captures of both adults and chicks; body measurements, ringing and blood draw

Publications

Jansen, D., Langevelde, F., Boer, W. F. 2007. Optimization or satiation, testing diet selection rules in goats. *Small Ruminant Research* 73.1, pp. 160–168

Jansen, D., Cant, M. A., Manser, M. B. 2012. Segmental concatenation of individual signatures and context cues in banded mongoose (*Mungos mungo*) close calls. *BMC biology* 10.1, pp. 1–11.

Jansen, D., Cant, M. A., Manser, M. B. 2013. Testing for vocal individual discrimination in adult banded mongooses. *Journal of Zoology* 291.3, pp. 171–177.

Jansen, D. 2013 Vocal communication in banded mongoose. PhD thesis. Doctoral dissertation, University of Zürich.

Manser, M. B., **Jansen, D.**, Graw, B., Hollén, L. I., Bousquet, C. A., Furrer, R. D., Roux, A., 2014. Vocal complexity in meerkats and other mongoose species". *Advances in the Study of Behavior*. Vol. 46. pp. 281–310.

Townsend, S. W., Koski, S. E., Byrne, R. W., Slocombe, K. E., Bickel, B., Boeckle, M., Braga Goncalves, I., Burkart, J. M., Flower, T., Gaunet, F., Glock, H., Gruber, T., **Jansen, D.**, Liebal, K., Linke, A., Miklósi, A., Moore, R., Schaik, C., Stoll, S., Vail, A., Waller, B., Wild, M., Zuberbühler, K., Manser, M. B., 2017. Exorcising G. rice's ghost: an empirical approach to studying intentional communication in animals. *Biological Reviews* 92.3, pp. 1427–1433.

Akinyi, M. Y., **Jansen, D.**, Habig, B., Gesquiere, L. R., Alberts, S. C., Archie, E. A. 2019. Costs and drivers of helminth parasite infection in wild female baboons". *Journal of Animal Ecology* 88, pp. 1029–1043.

Habig, B., **Jansen, D.**, Akinyi, M. Y., Gesquiere, L. R., Alberts, S. C., Archie, E. A., 2019. Multi-scale predictors of parasite risk in wild male savanna baboons (*Papio cynocephalus*)". *Behavioral Ecology and Sociobiology* 73.10, pp. 1–16.

Levy, E. J., Zippel, M. N., McLean, E., Campos, F. A., Dasari, M., Fogel, A. S., Franz, M., Gesquiere, L. R., Gordon, J. B., Grieneisen, L., Habig, B., **Jansen, D.**, Learn, C., Altmann, S., Archiel, E., 2020. A comparison of dominance rank metrics reveals multiple competitive landscapes in an animal society. *Proceedings of the Royal Society B* 287.1934, p. 20201013.

Grieneisen, L., Dasari, M., Gould, T. J., Björk, J. R., Grenier, J. C., Yotova, V., **Jansen, D.**, Gottel, N., Gordon, J. B., Learn, N. H., 2021. Gut microbiome heritability is nearly universal but environmentally contingent". *Science* 373.6551, pp. 181–186.

Björk, J. R., Dasari, M. R., Roche, K., Grieneisen, L., Gould, T. J., Grenier, J. C., Yotova, V., Gottel, N., **Jansen, D.**, Gesquiere, L. R., 2022. Synchrony and idiosyncrasy in the gut microbiome of wild baboons. *Nature Ecology & Evolution*, pp. 1–10.

Paietta, E. N., Weibel, C. J., **Jansen, D.**, Mututua, R. S., Warutere, J. K., Siodi, I. L., Gesquiere, L. R., Obanda, V., Alberts, S. C., Archie, E. A. 2022. Troubled waters: Water availability drives human-baboon encounters in a protected, semi-arid landscape. *Biological Conservation* 274, p. 109740.

Gordon, J.*, **Jansen, D.**,*, Learn, N., Archie, E., Tung, J., Altmann, J., Alberts, S.C. 2022. Ordinal dominance rank assignments: Matrix-based versus Elo-based. Technical report; Duke university. (* shared first authorship)

Jansen, D., Alberts, S. C., Archie, E. A., (in prep). Grooming interactions with fathers increase adult female survival

Presentations/Posters

Jansen, D., Archie, E.A. 2022. Can we replace assigned ranks by elo-based ranks?, Joint lab meeting, Duke, USA

Jansen, D., Archie, E.A. 2020. Do baboon dads matter?, Joint lab meeting, Duke, USA

Jansen, D., Archie, E.A. 2019. Issues with SCI and DSI and the possible solution of universal slopes. Joint lab meeting, Duke, USA

Jansen, D., Archie, E.A. 2018. Early adversity, social connectedness, and submission indexes for juveniles. Joint lab meeting, Duke, USA

Jansen, D., Archie, E.A. 2015. Condition data analysis. Joint lab meeting, Duke, USA

Jansen, D. Cant, M.A., Manser, M.B. 2013. Context-specific call sequences in the banded mongoose. (poster) ABS conference. Boulder, USA

Jansen, D., Cant, M.A., Manser, M.B. 2012. Temporal segregation of individual and behavioural signatures in banded mongoose (Mungos mungo) close calls. Vith ECBB. Essen, Germany

Jansen, D. 2012. Complexity of information coding in banded mongoose vocalisations. EvoBio PhD retreat. Riederalp, Switzerland **Jansen, D.** Cant, M.B., Manser, M.B. 2012. Close call transmission - a comparison between banded mongoose and meerkats. 4th annual Meerkat and Mongoose Meeting. Cambridge, UK

Jansen, D. Cant, M.B., Manser, M.B. 2012. Temporal segregation of individual and behavioural signatures in banded mongoose close calls. . ASAB Easter meeting. Aberystwyth, UK

Jansen, D. Cant, M.B., Manser, M.B. 2012. Banded mongoose close calls encode individual- and behaviour-specific signatures. Biology 2012. Friborg, Switzerland

Jansen, D. Cant, M.B., Manser, M.B. 2011. Banded mongoose close calls encode individual- and behaviour-specific signatures. . XXIII IBAC. La Rochelle, France

Jansen, D. 2011. Cooperation. Conflict and Communication in Banded Mongoose. Tropical Biology Association course. Mweya, Uganda

Jansen, D. . 2010. Cooperation. Conflict and Communication in Banded Mongoose. Tropical Biology Association course. Mweya, Uganda

Jansen, D. 2009. Vocalizations of banded mongoose. UWA research symposium. Mweya, Uganda

Jansen, D. 2009. Banded mongoose research in Queen Elisabeth National Park. Tropical Biology Association course. Mweya, Uganda

Jansen, D. 2008. 'Dinner time'. - resource calls in banded mongoose. . Institute of Zoology PhD retreat. Zurich, Switzerland

Workshops & courses

- 2022 **Geospatial R Workshop**, University of Notre Dame, USA
- 2022 **Using a Concordance**, University of Notre Dame, USA
- 2017 **Microbial ecology reproducible research workshop**, University of Michigan, USA
- 2017 **Effective Scientific Writing Workshop**, University of Notre Dame, USA
- 2016 **Geographic Information Systems**, University of Notre Dame, USA
- 2016 **Bayesian Statistics for Ecologists and Epidemiologists**, University of Notre Dame, USA
- 2015 **Topics in Infectious Disease: Population Biology of Infectious Disease**, University of Notre Dame, USA
- 2015 **Introduction into bioinformatics**, University of Notre Dame, USA
- 2012 **Unpacking intentional communication in animals: an integrative approach**, University of Zurich, Switzerland
- 2011 **Vocal Communication and Social Cognition**, University of Zurich, Switzerland
- 2011 **Programming in R**, University of Zurich, Switzerland
- 2011 **Write up scientific research**, University of Zurich, Switzerland
- 2011 **Good graphics using R**, University of Zurich, Switzerland
- 2010 **Foundations of Modelling and Scientific Computing**, University of Zurich, Switzerland
- 2010 **Avoiding Tragedies of the Commons**, University of Neuchatel, Switzerland
- 2010 **Research Ethics**, University of Zurich, Switzerland
- 2010 **An Introduction to Data Analysis for Ecologist using R**, University of Zurich, Switzerland
- 2009 **Research symposium Experiential tourism**, Uganda Wildlife Authority, Uganda
- 2008 **Generalized Linear Models in R**, University of Zurich, Switzerland
- 2003 **Savanna Ecology field course in Kenya**, Tropical Biology Association | University of Cambridge, UK

Skills

Programming

R
Tidyverse
PostgreSQL
Unix
git
high-performance computing

Statistics

linear (mixed) effect models
survival analysis
ordinations
non parametric
power analysis

Acoustics

Avisoft
Field recordings
Playback experiments

Office skills

Microsoft Office
Google suites
Rmarkdown
Latex

Languages

Dutch (native)
English (fluent)
German (basic)

References

Prof. Dr. Elizabeth Archie
179 Galvin Life Science Center
University of Notre Dame
Notre Dame, IN 46556
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(PI and supervisor from 2013-present)

Prof. Dr. Susan Alberts
Department of Evolutionary Anthropology
Duke University
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Durham NC 27708
+1-919-884-8714
alberts@duke.edu
(Director ABRP project and collaborator)

Prof. Dr. Laura Grieneisen
+1-250-807-8760 (office)
laura.grieneisen@ubc.ca
(former graduate student from lab and collaborator)

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University of Zurich
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(post-doc during my PhD)