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Studying Primates

How to Design, Conduct and Report Primatological Research

Primatology draws on theory and methods from diverse fields, including anatomy, anthropology, biology, ecology, medicine, psychology, veterinary sciences, and zoology. The more than 500 species of primate range from tiny mouse lemurs to huge gorillas, and primatologists collect data in a variety of environments including field sites, research facilities, museums, sanctuaries and zoos as well as from the literature. The variability in our research interests, study animals and research sites means that there are no standard protocols for how to study primates. Nevertheless, asking good questions and designing appropriate studies to answer them are vital if we are to produce highquality science. This accessible guide for graduate students and postdoctoral researchers explains how to develop a research question, formulate testable hypotheses and predictions, design and conduct a project, and report the results. The focus is on research integrity and ethics throughout, and the book provides practical advice on overcoming common difficulties researchers face.

JOANNA M. SETCHELL is Professor of Evolutionary Anthropology at Durham University, UK, and Editor-in-Chief of the *International Journal of Primatology*. She is an international expert in primatology with an extensive publication record. She is currently President of the Primate Society of Great Britain and has served as Vice-President for Research of the International Primatological Society. She is co-editor of *Field and Laboratory Methods for Primatologists* (Cambridge University Press, 2011).

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How to Design, Conduct and Report Primatological Research

JOANNA M. SETCHELL Durham University





University Printing House, Cambridge CB2 8BS, United Kingdom

One Liberty Plaza, 20th Floor, New York, NY 10006, USA

477 Williamstown Road, Port Melbourne, VIC 3207, Australia

314–321, 3rd Floor, Plot 3, Splendor Forum, Jasola District Centre, New Delhi – 110025, India

79 Anson Road, #06-04/06, Singapore 079906

Cambridge University Press is part of the University of Cambridge.

It furthers the University's mission by disseminating knowledge in the pursuit of education, learning, and research at the highest international levels of excellence.

www.cambridge.org Information on this title: www.cambridge.org/9781108421713 DOI: 10.1017/9781108368513

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First published 2019

Printed in the United Kingdom by TJ International Ltd, Padstow Cornwall

A catalogue record for this publication is available from the British Library.

ISBN 978-1-108-42171-3 Hardback ISBN 978-1-108-43427-0 Paperback

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To the next generation of primatologists

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Preface

There are more than 500 species of primate, ranging in size from the ~30 g Madame Berthe's mouse lemur to the ~250 kg male Grauer's gorilla. Some species are arboreal, others terrestrial. Some live in large groups, others forage alone. Some species are diurnal, some nocturnal, and still others are active at any time of day or night. Primatology draws on theory and methods from diverse fields, including anatomy, anthropology, biology, ecology, medicine, psychology, veterinary sciences, and zoology. Primatologists collect data in field environments with various levels of anthropogenic influence, animal sanctuaries, research facilities, museums and zoos, and from the literature. We are motivated by discovery, conservation, and welfare. The variability in our study animals, research interests, and motivations means that there are no standard protocols or off-the-shelf recipes for how to study primates. Nevertheless, asking the right questions and designing appropriate studies to answer them are vital if we are to produce high-quality science. These are also the topics that students often find most difficult.

This book guides readers in how to think scientifically. It covers the skills needed to assess published studies critically, develop a research question, formulate testable hypotheses and predictions, design and conduct a study that will test the predictions, select appropriate measures and samples, analyse the data, interpret the results, draw conclusions about the data in relation to the original question, and report the results. I emphasise ethics and the need for honest, rigorous, and transparent science throughout. I explain common misconceptions and problems in primatology and how to resolve them. I include the difficulties researchers can face, including imposter syndrome, fieldwork in difficult environments, and reverse culture shock. I highlight **key terms** the first time I use them and use text boxes to cover issues in more depth than in the main text. Each chapter includes a summary and suggestions for further reading.

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xvi Preface

This book will be valuable for postgraduate and postdoctoral scholars in primatology and allied disciplines. It will also be useful for final-year undergraduates contemplating their dissertation and for those who teach undergraduates, advise postgraduates, mentor postdoctoral scholars, and conduct their own research.

Author royalties will be donated to the International Primatological Society Conservation fund.

Acknowledgements

This book distils what I've learnt over more than 20 years. It is based on my experience in my own research, editing the *International Journal of Primatology*, collaborating with students, and discussions with colleagues and friends. I don't claim to be a perfect scientist and this book reflects what I've learnt through what I've done, rather than what I've done. Informally, I call it *How not to mess it up*, with a good helping of *Don't be a jerk*. I hope that it will help people to do good research in primatology.

The best collaborator is a friend you do science with. Thank you to my many friend-collaborators, particularly Kristin Abbott, Sandra Bell, Robin Bernstein, Marie Charpentier, Elena Cunningham, Debbie Curtis, Wendy Dirks, Phyllis Lee, Barthélémy Ngoubangoye, Klara Petrzelkova, and Steve Unwin. Charlie Lockwood, it was a privilege to know you.

I have learnt a huge amount from editors, reviewers, and authors at the *International Journal of Primatology*, and from colleagues in the Primate Society of Great Britain and the International Primatological Society. Thank you all.

I am very grateful for the generous support of the Centre International de Recherches Médicale, Franceville, Gabon, and all the staff of the Centre du Primatologie during our long collaboration. In addition to generous collaboration and great friendship, CIRMF have always provided rent-free accommodation.

Many people and institutions helped me as a PhD student and postdoctoral scholar. Alan Dixson supervised my PhD at Madingley, the School of Life Sciences at Roehampton University gave me free rein as a postdoctoral fellow, and Leslie Knapp was my postdoctoral mentor in Biological Anthropology at Cambridge. E. Jean Wickings introduced me to mandrills, loaned me a car, and was an exceptionally generous host in Franceville, Gabon. I stayed with Jason Brown rent-free when my PhD

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xviii Acknowledgements

stipend ran out. Benoît Goossens, Marc Ancrenaz, and friends gave me the opportunity to experience life in Sabah, Malaysia, and the Institute of Tropical Biology and Conservation, Universiti Malaysia Sabah, hosted me as a guest lecturer. Chloë Aldam and Chris Bell let me sleep in their living room and house-sit when I was home from the field as a postdoctoral scholar. Corinne and Bernie Curtis charged me far less than the going rate for rent for their flat in London. Thank you all.

Thank you to Fanny Cornejo and Cesar F. Flores-Negron for lengthy discussions of how to teach the scientific method in the inspirational environment surrounding Cocha Cashu Biological Station, and to our students on the 1er Curso de Campo para el Estudio de la Ecología, Comportamiento, y Conservación de Primates, who put up with my abysmal Spanish. Thank you to all the people who have guided me to see wild primates.

I thank Helen Ball at Durham University for encouraging me to write this book. Thank you to the research students and postdoctoral scholars I have collaborated with, whose experiences have contributed directly to this book: Esther Clarke, Ben Coleman, Emilie Fairet, Katharine Flach, Ingrid Grueso-Dominguez, Steffi Henkel, Caroline Howlett, Dhana Hughes, Sharon Kessler, Simone Lemmers, Pedro Mendez-Carvajal, Gaby Mendoza Nakano, Lucy Millington, Rodrigo Moro-Rios, Danson K. Mwangiri, Marie-Claire Pagano, Kat Shutt, Pete Tomlin, Stefano Vaglio, Sian Waters, and Miles Woodruff.

For constructive comments on the proposal for this book, I thank Trudi Buck, Sarah Elton, Russell Hill, Rachel Kendal, Stuart Semple, and four anonymous reviewers. For help with specific points or feedback on individual sections and chapters, I thank Alec Ayers, Helen Ball, Rob Barton, Trudi Buck, Sarah Elton, Jeremy Kendal, Rachel Kendal, Simone Lemmers, Kesson Magid, Gaby Mendoza Nakano, Danson K. Mwangiri, and Chris Schmitt. For feedback on multiple chapters, I am very grateful to Roger Mundry, who reviewed an early version of the stats content. Sharon Kessler, Bruce Rawlings and Pete Tomlin provided invaluable feedback on the first full draft. Celia Deane-Drummond provided a very helpful external eye and advice on ethical issues. Trudi Buck and Sarah Elton provided encouragement and very helpful feedback on the second draft. Andrew Mein provided very helpful feedback on the index and the proofs. I am grateful to Dietmar Zinner and Christian Roos for creating Figure 7.1. If I've missed anyone, I apologise. All remaining errors are, of course, mine.

Thank you to Megan Kiernan of the life sciences editorial team at Cambridge University Press for her encouragement when I told her about the idea for this book, and for obtaining reviews and approval

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Acknowledgements xix

for the proposal. Thank you to Aleksandra Serocka and Ilaria Tassistro for their patience in extending the word count and the deadline and to Annie Toynbee for guiding me through the publication process. I am also grateful to Ishwarya Mathavan and Anbumani Selvam for copyediting the manuscript.

Thank you to my friends, particularly Gill Atkinson, Trudi Buck, Viv Kent, Liz Pavey, and Jane Shuttleworth, for putting up with my obsession with this book and for their support.

Merci à ma famille gabonaise pour une hospitalité sans pareil: Hanny Marva Ipendangoye et ta famille, Adiss Adebo, Macair et Katy Leyama, Rodrigues (Guesoh) Louembet, Clementine Matha, Rainey (Matcho) Mombet, Yves-Landry (Ya Mouk) Mouketou, Jean-François (Adjo) Mouori, Aristide Nguembi, Peckoss Nkoghe, et tous les enfants. Sosthène John, Aymar Mangoumba, et Bettina Salle, vous nous avez quitté trop tôt.

Christian Nadjimbaye, tu es une grosse partie de ma force, malgré la distance.

And, finally, thank you to my parents, Michael and Mary, for their support throughout my career, despite their worry that I would never get a proper job. I did, and this book is what I have learnt.