

# Caroline Phillips

Departmental Lecturer  
in Palaeoanthropology

## CONTACT

Primate Models for Behavioural  
Evolution Lab  
School of Anthropology & Museum  
Ethnography  
University of Oxford  
64 Banbury Road  
Oxford OX2 6PN

+44 (0)1865 612373  
+44 (0)7512 814711

caroline.phillips@anthro.ox.ac.uk

 carolinephillips.info

ORCID 0000-0002-5768-2132

## QUICK LOOK AT...

### RESEARCH

20 years' experience studying  
primate behaviour, diet,  
palaeoecology, human evolution

### CURRENT PROJECTS

Stable isotopes and ape insectivory  
Phytoliths at ape nut cracking sites  
Phytoliths at 1.6Ma hominin site  
Diet reconstruction of the Hadza

### LAB

Phytoliths, stable isotopes, soil  
analyses, genetics

### FIELD

Behavioural observation, macroscopic  
inspection, environmental sample  
collection, radio tracking, wildlife and  
reconnaissance surveys

### MEMBERSHIP

Primate Society of Great Britain  
International Phytolith Society

## APPOINTMENTS

- |                  |  |
|------------------|--|
| <b>2017-pres</b> | <b>Departmental Lecturer</b><br>University of Oxford [0.25/0.50 FTE]   |
| <b>2018-pres</b> | <b>Stipendiary Lecturer in Biological Sciences</b><br>St Hugh's College [0.25 FTE]   |
| <b>2019</b>      | <b>Associate Lecturer</b><br>Oxford Brookes University [Sept-Dec]  |
| <b>2015-17</b>   | <b>Claude Leon Post-doctoral Fellow</b>  |
| <b>2012-15</b>   | <b>Leverhulme Study Abroad Postdoctoral Researcher</b><br>BOTH AT: Evolutionary Studies Institute<br>University of the Witwatersrand |
| <b>2011-12</b>   | <b>Gibbs Travelling Fellow</b><br>Newnham College, Cambridge   |
| <b>2011-12</b>   | <b>Research Assistant</b><br>Dept Archaeology<br>University of Cambridge   |

**Maternity leave: Jul 2014-Jun 2015 & Jan-Jun 2017**

## EDUCATION

- |             |  |
|-------------|--|
| <b>2012</b> | <b>Biological Anthropology</b><br>University of Cambridge            |
| <b>2004</b> | <b>MSc Primate Conservation</b><br>Oxford Brookes University         |
| <b>1999</b> | <b>BSc (Hons) Environmental Protection</b><br>Bournemouth University |

## AWARDS AND FELLOWSHIPS

- |                |  |
|----------------|--|
| <b>2015-17</b> | <b>Claude Leon Postdoctoral Fellowship</b><br>Claude Leon Foundation   |
| <b>2012-15</b> | <b>Leverhulme Study Abroad Studentship</b><br>The Leverhulme Trust   |
| <b>2011</b>    | <b>Murray Edwards College Hardship Fund<br/>Funds for Women Graduates</b><br>British Federation of Women Graduates |
| <b>2009-10</b> | <b>Board of Graduate Studies</b><br>University of Cambridge  |

## TEACHING

Convenor/co-convenor, lecturer and tutor unless stated

### UNIVERSITY OF OXFORD

- BA Human Sciences**
- 2019-pres 2018** Paper 1: Behaviour and its Evolution, Human Evolution: Palaeoanthropological & Primatological Approaches  
Third-year option: Primates & Evolution
- 2017-pres** Paper 2: Human Genetics and Evolution - Human Evolution: Behaviour, Genes & Cultural Processes
- MSc Cognitive & Evolutionary Anthropology**
- 2017-pres** Paper 2: Principles in Evolution and Behaviour
- 2018-pres** **Undergraduate supervisions across Oxford Colleges on:**  
Diversity of Life  
Ecology and Evolution  
Cognition and Culture  
Human Evolution

### OXFORD BROOKES UNIVERSITY

- 2019** **BA Biological Anthropology**  
ANTH 5006: Methods and Analyses in Biological Anthropology  
ANTH 6026: Primate Conservation
- MSc Primate Conservation**  
ANTH 7006: Conservation Education

### UNIVERSITY OF THE WITWATERSRAND

- BSc Life Sciences**
- 2016-17** APES2008: Evolution II  
**2015-16** APES3029: Palaeontology III
- Honours Palaeontology**
- 2015** PALP4020: Evolution of Mammals  
PALP4013: Hominin Evolution and Osteology

### UNIVERSITY OF CAMBRIDGE

- BSc (Hons) Natural Sciences**
- 2012** Part II BA1: Primate Behavioural Ecology
- 2007-12** **TUTOR/GUEST LECTURER**  
**BA (Hons) Human, Social & Political Sciences**  
Paper 2: Humans from a Biological Perspective  
**BA Biological Anthropology**  
**MPhil Biological Anthropology**  
Part II BA14: Apes as Referential Models for Human Evolution  
Part II BA14: Cultural Primatology

**OVER 10  
YEARS'  
EXPERIENCE**



**Undergraduates  
(all years) and  
postgraduates**

**Class size:  
1-103**

**Contact hr:  
2-33**

**Matriculated and  
visiting students**

### SUMMER TEACHING

Summer UNIQ  
Archaeology and  
Anthropology

Summer Institute  
Oriel College:  
'Getting Research Right'  
'Academic Writing &  
Critical Thinking'

### FIELD AND LAB DEMONSTRATION

BA (Hons) Geography,  
University of Cambridge

Koobi Fora Field School

Animals, Plant &  
Environmental Sciences,  
University of the  
Witwatersrand

## GRADUATE SUPERVISION

### UNIVERSITY OF OXFORD, MSC COGNITIVE & EVOLUTIONARY ANTHROPOLOGY

- 2019 **Rony Karstad**: 'Cultural transmission of handedness'  
**Angela Wu**: 'The evolution of cross-sexual friendships'
- 2018 **Samuel Adamson**: 'Foundations of consensus in humans and impact of culture'  
**Grace Regan**: 'Infant testimony in relation to religion and science'
- 2017 **Lindsay Grandison**: 'The Cheek of it: Zygomatic bone variation in humans'

## PUBLICATIONS

### Journal articles, book chapters [Impact factor = IF]

- Schoeninger MJ, McGrew WC, **Phillips CA**. 2019. Archaeological implications of diet in non-human primates. *In: The Oxford Handbook of the Archaeology of Diet*. Lee-Thorp J, Katzenburg A (Eds), DOI: 10.1093/oxfordhb/9780199694013.013.28.
- Phillips C**, Woolley C, Mann D, McGrew W. 2018. Disappearance rate of chimpanzee scats: Implications for census work on *Pan troglodytes*. *African Journal of Ecology*, DOI: 10.1111/aje.12501. [IF = 0.875]
- [\*] **Phillips CA**, Wrangham RW, McGrew WC. 2017. Non-dietary analytical features of chimpanzee scats. *Primates*. DOI 10.1007/s10329-017-0606-y. [IF = 1.368]
- Phillips CA**, O'Connell T. 2016. Fecal carbon and nitrogen isotopic analysis as an indicator of diet in Kanyawara chimpanzees, Kibale National Park, Uganda. *American Journal of Physical Anthropology*, DOI 10.1002/ajpa.23073. [IF = 2.662]
- [\*] McGrew WC, Matsumoto T, Nakamura M, **Phillips CA**, Stewart FA. 2014. Experimental primate archaeology: Detecting stone handling by Japanese macaques (*Macaca fuscata*). *Lithic Technology*, 39:113-121. [IF = 1.220]
- Phillips C**, Lancelotti C. 2014. Chimpanzee diet: Phytolith analysis of feces. *American Journal of Primatology*, 76: 757-773. [IF = 2.009]
- Phillips CA**, McGrew WC. 2014. Macroscopic inspection of ape feces: What's in a quantification method? *American Journal of Primatology*. 76: 539-550. [IF = 2.009]
- Phillips CA**, McGrew WC. 2013. Identifying species in chimpanzee (*Pan troglodytes*) faeces: A methodological lost cause? *International Journal of Primatology*. 34:792-807. [IF = 1.285]
- McGrew WC, Marchant LF, **Phillips CA**. 2009. Standardised protocol for faecal analysis. *Primates*. 50, 363-366. [IF = 1.368]
- [\*] **Maternity Leave 2014 -2015 & 2017**

### Advanced preparation:

- Phillips C, Almeida-Warren K, Bamford M, Yamakoshi G. Cracking the puzzle: Phytoliths detected at chimpanzee nut-cracking sites in Bossou Forest, Guinea.
- Phillips C, Harris JWK, Bamford M. The palaeoenvironment (ca. 1.6ma) of FxJj20 complex, Koobi Fora, Kenya using phytoliths.
- Phillips CA, Stewart F, Piel A, O'Connell T, Bamford M. A palaeoecological approach to ape diet: Carbon isotopic and phytolith analyses of chimpanzee faeces from Issa Valley, Tanzania.

## RESEARCH GRANTS

- 2014** NRF DST Centre of Excellence in Palaeosciences  
Operational Support (£3466)  
The Leverhulme Trust Research Support Grant (£2140)
- 2013** NRF DST Centre of Excellence in Palaeosciences  
Operational Funding (£3300)
- 2011** Phyllis & Eileen Gibbs Travelling Research Fellowship,  
Newnham College (£6700)  
Wingate Post-doctoral Scholarship (£8800)

## SELECTED CONFERENCE PRESENTATIONS

**Phillips C**, Almeida-Warren K, Yamakoshi G, Bamford M. 2019. Cracking the puzzle: *Reconstructing Nut-Cracking Sites of Western Chimpanzees using Phytolith Analyses*. European Federation for Primatology/Primate Society of Great Britain Winter Meeting, Oxford, UK.

**Phillips C**. 2017. *Using primates to learn about dietary adaptation in humans*. The Oxford Bio Anth Initiative: Human Diversity and Adaptation Meeting, UK.

**Phillips C**, Harris JWK, Bamford M. 2016. *The palaeoenvironment (ca. 1.6ma) of FxJj20 complex, Koobi Fora, Kenya using phytoliths*. Palaeontological Society of Southern Africa 19<sup>th</sup> Biennial Meeting, South Africa.

**Phillips C**, Harris JWK, Bamford MK. 2016. *Palaeoenvironment (ca. 1.6Ma) of FxJj20 Complex, Koobi Fora, Kenya. Homo erectus 100+25*, International Senkenberg Conference, Georgia. (Poster)

**Phillips C**, Lancelotti C. 2014. *Dry vs. wet ash extraction of phytoliths in ape faeces and effect of sample homogenisation*. 9<sup>th</sup> International Meeting for Phytolith Research, Belgium. (Poster)

**Phillips C**, O'Connell T. 2014. *How low can you go? Homogenisation effects on faecal  $\delta^{13}C$  and  $\delta^{15}N$  values to interpret great ape diet*. Palaeontological Society of Southern Africa 18<sup>th</sup> Biennial Meeting, South Africa. (Poster)

**Phillips C**, O'Connell, T. 2012. *Stable isotopic analyses of chimpanzee faeces*. British Association for Biological Anthropology and Osteoarchaeology 14<sup>th</sup> Congress, UK.

**Phillips C**, Hunt H, Knapp L, Jones M, Dickens S, Lester J, Pagani L. 2011. *Molecular analysis of plant foods in chimpanzee diet: Pyrosequencing DNA in faeces*. European Federation for Primatology 7<sup>th</sup> Congress, Portugal.

**Phillips C**, Lancelotti C. 2010. *Phytolith analysis - a novel approach for assessing chimpanzee diet*. International Primatological Society Congress, Kyoto. (Chair)

**Since 2008 (up to £1000):** Wits Research Office Postdoctoral Award; Leakey Trust UK; International Primatological Society Research Grant; Primate Society of Great Britain, Charlie Lockwood Memorial Research Fund Award; Murray Edwards College Research Grant; Ridgeway-Venn Travel Scholarship; Sir Richard Stapely Education Trust Award; New Hall College Graduate Research Grant

**On Organising & Science Committee** combined winter meetings: Primate Society of Great Britain + European Foundation of Primatology: Sept 2019, Oxford Brookes University & University of Oxford

## REVIEW

*Biological Journal of the Linnean Society, Folia Primatologica; International Journal of Primatology, Leakey Foundation, Nature-Scientific Reports, North-western Journal of Zoology*

## OUTREACH EXAMPLES

Summer UNIQ Archaeology & Anthropology  
World Chimpanzee Day  
Human Adaptation Conference (2017)  
Cambridge Science Festival  
Cambridge Science Week

## FIELDWORK

- 2014** **Primatologist:** Chacma baboons (*Papio ursinus*), Kwa Zulu Natal, South Africa
- 2013** **Research Scientist, postdoctoral work:** Captive chimpanzees (*Pan troglodytes* sp.) Fundació Mona, Spain  
**Primatologist, postdoctoral work:** Chimpanzees (*P. t. verus*), Kyoto University Primate Research Institute, Bossou Forest & Nimba Mountains, Guinea
- 2012** **Research Scientist, postdoctoral work:** Captive chimpanzees (*P. t. sp.*), Fundació Mona, Spain  
**Intern leader, postdoctoral work:** Phytolith sampling, Koobi-Fora Field School, Kenya
- 2008** **Doctoral work:** New protocol for study of chimpanzee (*P. t. schweinfurthii*) diet, Kanyawara, Kibale National Park, Uganda. Supervisor Prof William McGrew  
**Primatologist:** Census surveys of unobservable wild chimpanzees and gorillas (*P. t. ellioti*; *Gorilla gorilla diehli*) Cross River State, Nigeria
- 2007** **Primatologist:** Behavioural observation and data collection on unobservable chimpanzees (*P. t. verus*), Kyoto University Primate Research Institute, Bossou Forest & Nimba, Mountains, Guinea
- 2006** **Team leader:** Tracking wild guenons (*Ceropithecus*), Centre for Education, Research & Conservation of Primates and Nature (CERCOPAN), Cross River State, Nigeria
- 2001** **Wildlife volunteer:** Fauna and flora surveys within reserve for eco-tourism programme: Tabin Wildlife Reserve, Sabah, Borneo

Since 2009

**20 YEARS' EXPERIENCE  
STUDYING WILD AND  
CAPTIVE PRIMATES**

**ACROSS SEVEN  
COUNTRIES**

Reconnaissance surveys,  
diurnal and nocturnal

Analyse indirect  
evidence (e.g. faeces,  
food remains, arboreal  
beds, tools)

Directly observe  
primates

Collection samples for  
multiple analyses