

# DR. ALECIA CARTER

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## EMPLOYMENT

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<b>Researcher</b> at the Centre National de la Recherche Scientifique	from Oct 2016
<b>Junior Research Fellow</b> , Churchill College, University of Cambridge	Oct 2013-Sept 2016
<b>Post-doctoral Research Associate</b> , University of Cambridge	May 2012-Sept 2013

## EDUCATION

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<b>Ph.D., Australian National University, Australia</b>	<b>2008-2012</b>
<ul style="list-style-type: none"><li>Thesis: <i>Animal personality in agama lizards and chacma baboons: Methodological considerations across taxa</i>. Awarded November 12 2012</li><li>Australian Postgraduate Award (scholarship)</li><li>Resulted in 7 publications in international peer-reviewed journals, and 3 publications from collaborations</li></ul>	
<b>BSc Zoology (Hons Class 1), University of Queensland, Australia</b>	<b>2002-2007</b>
<ul style="list-style-type: none"><li>Hons thesis: <i>Association patterns and fitness in female eastern grey kangaroos</i>.<ul style="list-style-type: none"><li>Resulted in 2 publications in international peer-reviewed journals, and 1 publication from collaboration</li></ul></li><li>Undergraduate (3<sup>rd</sup> year) research project published in the <i>Journal of Experimental Biology</i></li></ul>	
<b>BA (Indonesian/Spanish), University of Queensland, Australia</b>	<b>2002-2006</b>
<ul style="list-style-type: none"><li>Semester abroad Universidad de las Américas, Mexico 2006</li></ul>	

## KEY PUBLICATIONS

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Please find further details of my output on my [Google scholar profile](#), [ORCID page](#) and my [ImpactStory](#)

<sup>‡</sup>Both authors contributed equally <sup>†</sup>Student contributor <sup>§</sup>Authors listed alphabetically

**Carter, AJ**; Torrents Ticó, M & Cowlshaw, G. 2016. Sequential phenotypic constraints on social information use in wild baboons. *eLife*, [dx.doi.org/10.7554/eLife.13125](https://doi.org/10.7554/eLife.13125).

- Using a combination of experimental and detailed observational fieldwork, we showed that social information use in wild baboons is a process with several stages – from information acquisition, to its application, and finally its exploitation. Furthermore, the characteristics of an individual can limit their success at each of these stages.

*Selected press coverage:* [eLife Insight](#), [BBC](#), [phys.org](#)

**Carter, AJ**; Marshall, HH; Heinsohn, R & Cowlshaw, G. 2014. Personality predicts the propensity for social learning in a wild primate. *PeerJ*, **2**, e283.

- We demonstrated experimentally that social learning in wild baboons was dependent on personality. Furthermore, and contrary to previous assumptions, we showed that information acquisition may not be correlated with its use, suggesting social information use itself may be personality-dependent.

Selected for “Best of Animal Behaviour” collection by *PeerJ* editors.

*Selected press coverage:* [Wired](#), [Cambridge University](#), [Science Daily](#)

**Carter, AJ**; English, S & Clutton-Brock, TH. 2014. Cooperative personalities and social niche specialization in female meerkats. *Journal of Evolutionary Biology*, **27**, 815-825.

- Using long-term behavioural and life history data, our results contradicted a popular conceptual model—social niche specialisation—for the formation and maintenance of animal personalities. We suggested an alternative, testable hypothesis for the development of animal personalities in stochastic environments.

Other published papers:

- 2015** **Carter, AJ**; Marshall, HH<sup>‡</sup>; Lee, AEG<sup>‡</sup>, Torrents Ticó<sup>†</sup>, M; Cowlshaw, G. Phenotypic assortment in wild primate networks: implications for the dissemination of information. *Royal Society Open Science*<sup>†</sup> dx.doi.org/10.1098/rsos.140444
- *Selected press coverage*: the [Independent](#), the [Conversation](#), the [New Statesman](#), and [BPS Research](#)
- Carter, AJ**; Marshall, HH; Lee, AEG. Research questions should drive edge definitions in social network studies. *Animal Behaviour*<sup>§</sup> doi:10.1016/j.anbehav.2015.03.020
- Marshall, HH; **AJ Carter**; A Ashford; M Rowcliffe, G Cowlshaw. Social effects on foraging behaviour and success depend on local environmental conditions. *Ecology and Evolution* doi: 10.1002/ece3.1377
- 2014** **Carter, AJ**; Horrocks, NPC; Huchard, E; Logan, CJ; Lukas, D; MacLeod, KJ; Marshall, HH; Peck, HL; Sanderson, JL & Sorensen, MC. Junior scientists are sceptical of sceptics of open access: a reply to Agrawal. *Trends in Plant Science*, **19**, 339-340.
- Castles, M<sup>†</sup>; Heinsohn, R; Marshall, HH; Lee, AEG; Cowlshaw, G & **Carter, AJ**. Social networks created with different techniques are not comparable. *Animal Behaviour*, **96**, 59-67.
- Highcock, L<sup>†</sup> & **Carter, AJ**. Intraindividual Variability of Boldness Is Repeatable across Contexts in a Wild Lizard. *PLoS ONE*, **9**, e95179.
- Sick, C; **Carter, AJ**<sup>‡</sup>; Marshall, HH<sup>‡</sup>; Knapp, LA; Dabelsteen, T & Cowlshaw, G. Evidence for varying social strategies across the day in chacma baboons. *Biology Letters*, **10**, 20140249.
- 2013** **Carter, AJ**; Marshall, HH; Heinsohn, R & Cowlshaw, G. Personality predicts decision making only when information is unreliable. *Animal Behaviour*, **86**, 633-639.
- Carter, AJ**; Feeney, WE; Marshall, HH; Cowlshaw, G & Heinsohn, R. Animal personality: what are behavioural ecologists measuring? *Biological Reviews*, **88**, 465-475.
- Carter, AJ**. On validity and controls in animal personality research: a comment on Galhardo et al. *Biology Letters* **9**, 20121080.
- Marshall, HH; **Carter, AJ**; Ashford, A; Rowcliffe, JM & Cowlshaw, G. How do foragers decide when to leave a patch? A test of alternative models under natural and experimental conditions. *Journal of Animal Ecology*, **82**, 894-902.
- Pays, O; Beauchamp, G; **Carter, AJ** & Goldizen, AW. Foraging in groups allows collective predator detection in a mammal species without alarm calls. *Behavioral Ecology*, **24**, 1229-1236.
- 2012** **Carter, AJ**<sup>‡</sup> & Feeney, WE.<sup>‡</sup> Taking a Comparative Approach: Analysing Personality as a Multivariate Behavioural Response across Species. *PLoS ONE*, **7**, e42440.
- Carter, AJ**; Goldizen, A & Heinsohn, R. Personality and plasticity: temporal behavioural reaction norms in a lizard, the Namibian rock agama. *Animal Behaviour*, **84**, 471-477.
- Carter, AJ**; Heinsohn, R; Goldizen, AW & Biro, PA. Boldness, trappability and sampling bias in wild lizards. *Animal Behaviour*, **83**, 1051-1058.
- Carter, AJ**; Marshall, H; Heinsohn, R & Cowlshaw, G. Evaluating animal personalities: do observer assessments and experimental tests measure the same thing? *Behavioral Ecology and Sociobiology*, **66**, 153-160. Featured on *Animal Behaviour* website as "Editors' Choice"
- Carter, AJ**; Marshall, HH; Heinsohn, R & Cowlshaw, G. How not to measure boldness: novel object and antipredator responses are not the same in wild baboons. *Animal Behaviour*, **84**, 603-609.
- Marshall, HH; **Carter, AJ**; Coulson, T; Rowcliffe, JM & Cowlshaw, G. Exploring foraging decisions in a social primate using discrete choice models. *American Naturalist*, **180**, 481-495.
- Marshall, HH; **Carter, AJ**; Rowcliffe, JM & Cowlshaw, G. Linking social foraging behaviour with individual time budgets and emergent group-level phenomena. *Animal Behaviour*, **84**, 1295-1305.
- 2010** **Carter, AJ**; Goldizen, AW & Tromp, SA. Agamas exhibit behavioral syndromes: bolder males bask and feed more but may suffer higher predation. *Behavioral Ecology*, **21**, 655-661.
- 2009** **Carter, AJ**; Macdonald, SL; Thomson, VA & Goldizen, AW. Structured association patterns and their energetic benefits in female eastern grey kangaroos. *Animal Behaviour*, **77**, 839-846.
- Carter, AJ**; Pays, O & Goldizen, AW. Individual variation in the relationship between vigilance and group size in eastern grey kangaroos. *Behavioral Ecology and Sociobiology*, **64**, 237-245.
- 2006** **Carter, AJ** & Wilson, RS. Improving sneaky-sex in a low oxygen environment: reproductive and physiological responses of male mosquito fish to chronic hypoxia. *Journal of Experimental Biology*, **209**, 4878-4884.

## DATASETS PUBLISHED

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- Carter, AJ**; Torrents Ticó, M; Cowlshaw, G. 2015: Data from: "Sequential phenotypic constraints on social information use". figshare. <https://dx.doi.org/10.6084/m9.figshare.2010396.v1>
- Carter, AJ**. 2015: Repeated measures of Namibian rock agama flight initiation distances. figshare. <https://dx.doi.org/10.6084/m9.figshare.1579144>
- Carter, AJ**. 2015: Trapping latency and flight initiation distances of Namibian rock agamas. figshare. <https://dx.doi.org/10.6084/m9.figshare.1579239>
- Carter, AJ**; HH Marshall<sup>‡</sup>; AEG Lee<sup>‡</sup>; Miquel Torrents Ticó; G Cowlshaw. Phenotypic assortment in wild primate networks: implications for the dissemination of information. *Royal Society Open Science* figshare Digital Repository: 10.6084/m9.figshare.1239171
- Marshall, HH; **Carter, AJ**; Ashford, A; Rowcliffe, M; Cowlshaw, G. Social effects on foraging behaviour and success depend on local environmental conditions. *Ecology and Evolution* Dryad Digital Repository: <http://dx.doi.org/10.5061/dryad.rv109>
- Carter, AJ**; English, S & Clutton-Brock, TH. 2014. Cooperative personalities and social niche specialization in female meerkats. *Journal of Evolutionary Biology*, Dryad Digital Repository: <http://dx.doi.org/10.5061/dryad.5086f>.
- Carter, AJ**; Marshall, HH; Heinsohn, R & Cowlshaw, G. Personality predicts the propensity for social learning in a wild primate. *PeerJ*, **2**, e283. doi: 10.7717/peerj.283/supp-1 to 10.7717/peerj.283/supp-7
- Marshall, HH; **Carter, AJ**; Coulson, T; Rowcliffe, JM & Cowlshaw, G. Exploring foraging decisions in a social primate using discrete choice models. *American Naturalist*, Dryad Digital Repository: <http://dx.doi.org/10.5061/dryad.8m405>

## TEACHING, SUPERVISING AND MENTORING

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### TEACHING

- Wrote and delivered 3 lectures for Biological Anthropology "Advanced Behaviour" and "Theory and Practice in Biological Anthropology" (3<sup>rd</sup> year) at the University of Cambridge.
- Designed and delivered 2-day workshop on "Social Networks for Primates" in Göttingen, Germany
- Teaching and demonstrating at the University of Cambridge: Animal Biology, Zoology (2<sup>nd</sup> and 3<sup>rd</sup> year) practicals and field courses
- Prepared lectures and delivered seminars for Animal Behaviour course (3<sup>rd</sup> year) at the University of Queensland, 2012 and Ecology (3<sup>rd</sup> year) at the Australian National University
- Prepared and delivered multimedia practicals for Ecology (1<sup>st</sup> year) at the University of Queensland, 2012, for which I created video tutorials and designed a web-based dichotomous key

### SUPERVISING AND MENTORING

- Postgraduate (PhD) student supervision:
  - Primary supervisor for PhD student at the University of Cambridge: "Individual variation in cognition in wild baboons" 2014-2017
  - Secondary supervisor for PhD student at the University of Queensland: "Long necks and long-term associations: fission-fusion dynamics and effects of age on social preferences in wild giraffes" 2014-2017
- Postgraduate student (co-)supervisor for 4 students, Australian National University 2011-2013
  - Designed projects for and was primary supervisor of 3 Honours students
- Undergraduate research project supervisor, University of Cambridge for 7 student projects 2012-2014
  - Designed all research projects for students, supervised student work, taught necessary statistical knowledge in R

## SELECTED GRANTS AND FELLOWSHIPS RECEIVED

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- The Leakey Foundation Research grant 2016 USD\$24,170
- Churchill College Junior Research Fellowship 2013-2016 >£60,000
- Murray Edwards College Junior Research Fellowship 2013-2016 (declined) >£60,000
- John Stanley Gardiner Trust Fund: Salary Oct 2014-Sept 2015. ~£35,000
- Phyllis & Eileen Gibbs Travelling Fellowship (Newnham College) 2015-2016 £6291

## SELECTED OUTREACH

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- Creation of public outreach video about [social learning in baboons](#), hosted by the University of Cambridge
- Carter, AJ. 2013. "A Problem with Personality" [AnthroQuest no. 27 Winter/Spring](#). Popular research article about baboon personality published in the Leakey Foundation newsletter
- Provided resources for [high school student teaching material](#)
- Presentation to Namibian Environment and Wildlife Society members about research on baboons and agamas in Namibia

## PROFESSIONAL ACTIVITIES

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- **Consulting Editor** for *Animal Behaviour* 2014-2017
- eLife Early Career **Advisory Group member** 2014-2016
- Awarded Certificate of **Excellence in Reviewing** for *Animal Behaviour* 2013, 2014
- Awarded *Professors' Award* for outstanding contribution to the Department of Zoology, Cambridge, 2015
- **Reviewed** over 45 manuscripts for 18 journals including *Proceedings of the Royal Society of London, B; American Journal of Primatology; Behavioural Processes; American Naturalist; Journal of Evolutionary Biology; Journal of Personality and Social Psychology: Personality Processes and Individual Differences; Journal of Research in Personality; Animal Behaviour; Behavior; Current Zoology; PLOS ONE; Journal of Zoology; Behavioral Ecology and Sociobiology; Behavioural Ecology; Ethology; Journal of Fish Biology; Journal of Animal Ecology*. Please see my review history on [Publons](#).
- PhD thesis examiner for University of Copenhagen 2015
- University of Cambridge Department of Zoology **Chair of inaugural Postdoc Committee** 2014-2015, committee member 2014-current
  - Created "[Workshops](#)" series to assist postdocs to create job application materials and [Postdocs' webpages](#)
- University of Cambridge Department of Zoology **Equalities and Wellbeing Committee Member** 2014-current. **Elected acting Chair** Sept 2014
- University of Cambridge Department of Zoology **Library Committee Member** 2013-current
- Churchill College, University of Cambridge **Donations Committee Member** 2014-current
- Member of the Board of Discipline (Students), Churchill College, 2016
- Ad-hoc grant reviewer for the Chilean National Funding Agency and Daphne Jackson Trust; University of Vienna PhD proposal

## PRESENTATIONS AND INVITED TALKS

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- Keynote speaker at international conference: European Congress on Behavioural Biology 2014 "Social networks, social information and personality in wild baboons"
  - [Poster](#) prize International Society for Behavioural Ecology 2014
  - Invited speaker:
    - Mar 2016 Biological Anthropology, Durham University, UK "Why don't baboons have culture?"
    - Oct 2015 Bangor University Open Access Week, UK "What makes good research and good researchers?"
    - Oct 2015 Centre d'Ecologie Fonctionnelle et Evolutive, Montpellier, France "Why don't baboons have culture? Phenotypic constraints on information transmission in the wild"
    - Aug 2015 Behaviour 2015 symposium, Cairns, Australia "What makes good science and good scientists? Lessons learnt by an early career researcher"
    - Apr 2015 Centre for Ecology & Conservation, University of Exeter, UK "Social information in social networks"
    - Feb 2015 Deutsches Primatenzentrum, Göttingen, Germany "Social information in wild baboon social networks"
    - Jul 2014 Department of Cognitive Biology, University of Vienna, Austria "Social information transmission in wild baboons"
    - Jan 2014 School of Natural Sciences, Liverpool John Moores University, UK "Monkey see, which monkey do: Does social learning depend on personality in wild baboons?"
    - Oct 2013 Biological Anthropology, University of Cambridge, UK "Social learning in a wild social primate"
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