

Amalia P. M. Bastos

E-mail: a.bastos@auckland.ac.nz

Phone: (+64) 021 168 0786

Website: www.apmbastos.com

Citizenships: Portugal, Brazil

INTERESTS

Animal cognition, evolutionary and comparative psychology, animal behaviour, behavioural ecology, avian cognition, phylogeny, ontogeny.

EDUCATION

- 2017 - **PhD in Psychology**, University of Auckland
Thesis: The signature-testing approach to the evolution of intelligence
Supervisor: Prof. Alex Taylor. Funded through a Templeton Foundation grant.
- 2013 - 2016 **BA Honours in Biological Sciences**, Oxford University (*First Class*)
Thesis: Novelty and play in Goffin's cockatoos: Is there an object-play equivalent of the Coolidge effect?
Supervisor: Prof. Alex Kacelnik. Studied under a full CNPq scholarship.

PUBLICATIONS

ORCID: <https://orcid.org/0000-0003-3037-687X>

Google Scholar: <https://scholar.google.co.nz/citations?user=3qfh0wMAAAAJ&hl=en>

Peer-Reviewed Journal Articles

- Bastos, A. P. M.**, Neilands, P., Hassall, R., Lim, B. C., Taylor, A. H. (*accepted*) Dogs mentally represent jealousy-inducing social interactions. *Psychological Science*.
- Bastos, A. P. M.**, & Taylor, A. H. (2020) Macphail's null hypothesis of vertebrate intelligence: Insights from avian cognition. *Frontiers in Psychology* 11, 1692. DOI: 10.3389/fpsyg.2020.01692
- Bastos, A. P. M.**, & Taylor, A. H. (2020) Kea show three signatures of domain-general statistical inference. *Nature Communications* 11, 828. DOI: 10.1038/s41467-020-14695-1
- Neilands, P., Claessens, S., Ren, I., Hassall, R., **Bastos, A. P. M.**, & Taylor, A. H. (2020) Contagious yawning is not a signal of empathy: no evidence of familiarity, gender, or prosociality biases in dogs. *Proceedings of the Royal Society B* 287, 20192236. DOI: 10.1098/rspb.2019.2236
- Neilands, P., Hassall, R., Derks, F., **Bastos, A. P. M.**, & Taylor, A. H. (2020) Watching eyes do not stop dogs stealing food: evidence against a general risk-aversion hypothesis for the watching-eye effect. *Scientific Reports* 10, 1153. DOI: 10.1038/s41598-020-58210-4
- Bastos, A. P. M.** & Taylor, A. H. (2019) Kea (*Nestor notabilis*) represent object trajectory and identity. *Scientific Reports* 9, 19759. DOI: 10.1038/s41598-019-56380-4
- Heaney, M., **Bastos, A. P. M.**, Gray, R. D., & Taylor, A. H. (2019) Are kea prosocial? *Ethology*. DOI: 10.1111/eth.12944

TALKS & CONFERENCE PRESENTATIONS

- July 2019 Diverse Intelligences Summer Institute (DISI), University of St. Andrews.
“What makes us click?”
- July 2019 DISI, University of St. Andrews. “Smartphones and information foraging.”
- July 2019 Diverse Intelligences Grantee Summit, University of St. Andrews.
“Evolutionary aesthetics? Visual preferences in kea.”
- Aug 2018 DISI, University of St. Andrews. “Beauty and the beast: Aesthetic preferences
in nonhuman animals.”

FELLOWSHIPS, SCHOLARSHIPS, & AWARDS

- 2019 **Alumnus Research Fellowship: Diverse Intelligences Summer Institute**
UCLA, value: US\$4,000
- 2018 **Research Fellowship: Diverse Intelligences Summer Institute**
UCLA, value: US\$2,830
- 2016 **David Kirby Fund**
University of Oxford, value: £500 (Travel Award)
- 2016 **Mike Soper and Jimmy Elliott Memorial Fund**
University of Oxford, value: £600 (Travel Award)
- 2016 **St. Hilda’s College Travel Grant**
University of Oxford, value: £200 (Travel Award)
- 2013 **Full CNPq Undergraduate Scholarship**
University of Oxford / CNPq, value: £116,000

TEACHING EXPERIENCE

- 2018 **BIOSCI337: Animal Behaviour**, Graduate Teaching Assistant
University of Auckland
- 2018 **BIOSCI207: Adaptive Form and Function**, Graduate Teaching Assistant
University of Auckland

SELECTED MEDIA COVERAGE

- 2020** **National Geographic Kids**, September 2020: *Special Super-Smart Issue*
- 2020** **BBC Radio 4** More or Less, 24 May 2020: *School re-opening, Germany’s
Covid success and statistically savvy parrots*
- 2020** **The Guardian**, 03 March: *Study finds parrots weigh up probabilities to make
decisions*
- 2020** **The Times**, 03 March: *Parrots understand probability*
- 2020** **TVNZ 1**, 03 March: *Kea much smarter than originally thought, dubbed
‘world leaders’ in bird world*

- 2020** **The Conversation**, 03 March: *Polly knows probability: this parrot can predict the chances of something happening*
- 2020** **Forbes**, 03 March: *Parrots Make Predictions Based on Statistical Probabilities*
- 2020** **Insider**, 12 February: *A new study says human yawns are contagious to dogs but that may not mean what we think it means*
- 2020** **Stuff NZ**, 12 February: *Dogs' contagious yawning may not be a sign of empathy*
- 2020** **Newsweek**, 12 February: *Contagious Yawning and Empathy Link Questioned by Scientists After Finding Dogs Can Catch Yawns from Strangers*
- 2019** **TVNZ 1 Seven Sharp**, 22 August: *Animals less likely to steal food if you stare at them*
- 2018** **New Zealand Geographic**, May/June: *Birds of Play*
- 2018** **Radio New Zealand** Our Changing World, 25 January: *Clever Canines*

OTHER RESEARCH & MANAGEMENT EXPERIENCE

- 2018 - 2020 **Research Network Co-Founder**
Evolution Research at Auckland, University of Auckland, NZ
- 2018 - 2019 **Research Group Manager** (Prof. Quentin D. Atkinson)
Language and Cultural Evolution Group, University of Auckland, NZ
- 2017 - 2020 **Research Assistant and Lab Coordinator** (Prof. Alex H. Taylor)
Animal Minds Lab, University of Auckland, NZ
- 2016 **Data Collection Volunteer** (Prof. Alex Kacelnik and Dr. Antone Martinho)
Behavioural Ecology Research Group, University of Oxford, UK
- 2016 **Visiting Student** (Prof. Alex Kacelnik and Dr. Alice Auersperg)
The Goffin Lab, University of Vienna, Austria
- 2015 **Paleoecology Research Intern** (Dr. Ana Prohanska)
Biodiversity Institute, University of Oxford, UK
- 2011 - 2012 **Mammalogy Lab Intern** (Dr. Lena Geise)
Department of Zoology, Universidade Estadual do Rio de Janeiro, Brazil

THESIS & RESEARCH MENTORSHIP

Visiting Postgraduate Scholars

- 2020 **Kata Horváth**, Campus Mundi Scholarship, Eötvös Loránd University
- 2019 - 2020 **Gabriela Venable**, Yale Robert C. Bates Fellowship, Yale University
- 2019 **Amey Zhang**, Dartmouth Reynolds Fellowship, Dartmouth University

Undergraduate and Masters' Students

- 2020 **Marieke van den Berg**, HAS University of Applied Sciences
Honours Thesis: *Do Kea Have Aesthetic Preferences?*

- 2020 **Martin Dessart**, La Faculté des Sciences de la Vie, Université de Strasbourg
Master's Thesis: *Effects of the Warble Call on Optimism in Kea (Nestor notabilis)*
- 2019 **Rosalie Molin**, Licence Frontières du Vivant, Université Paris Descartes
Honours Thesis: *Statistical Inference in the Kea (Nestor notabilis)*
- 2017 - 2018 **Byung Lim**, School of Psychology, University of Auckland
Honours Thesis: *A Signature-Testing Approach of Jealousy in Dogs*

PROFESSIONAL SERVICE

Publons ID: <https://publons.com/researcher/1551758/amalia-bastos>

Grant Reviewer: Mind Science Foundation Tom Slick Research Awards in Consciousness

Journal Reviewer: Behaviour, Current Zoology, PeerJ, Animal Behavior and Cognition

OTHER SKILLS & EXPERIENCE

- Languages** English (fluent); Portuguese (fluent); Spanish (read fluently, speak and write with competence); French (read with basic competence).
- Translation** Professional translation and proof-reading services of scientific manuscripts. Examples, [10.1371/journal.pmed.0040305](https://doi.org/10.1371/journal.pmed.0040305) & [10.1093/acrefore/9780190632366.013.37](https://doi.org/10.1093/acrefore/9780190632366.013.37)
- Computing** Office (all); Adobe: Bridge, Illustrator, Lightroom, Photoshop, Premiere Pro; statistical analyses in JASP and R; basic website design in HTML and CSS.
- Others** Award-winning photographer specialising in wildlife and landscape imagery, with internationally published work. Portfolio: www.amaliabastos.com