

Amalia P. M. Bastos

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Citizenships: Portugal, Brazil

Residency: New Zealand

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 H. Taylor
Funded through a John 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. (2021) Dogs mentally represent jealousy-inducing social interactions. *Psychological Science*. Advance online publication. DOI: 10.1177/0956797620979149
- 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

INVITED TALKS

Mar 2021 New Zealand Department of Conservation Kea Workshop. “Kea behaviour and cognition.”

July 2019 Diverse Intelligences Grantee Summit, University of St. Andrews. “Evolutionary aesthetics? Visual preferences in kea.”

CONFERENCE PRESENTATIONS

April 2021 28th Annual International Conference on Comparative Cognition*. “Kea show three signatures of domain-general statistical inference.”

Sept 2020 ASSAB 2020 Conference*. “Kea show three signatures of domain-general statistical inference.”

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.”

Aug 2018 DISI, University of St. Andrews. “Beauty and the beast: Aesthetic preferences in nonhuman animals.”

*These events were held virtually due to Covid-19.

FELLOWSHIPS, SCHOLARSHIPS, & AWARDS

2020/2021 **Early Career Collaboration Enhancement Award**
Diverse Intelligences Summer Institute, value: US\$5,000

2019 **Diverse Intelligences Summer Institute Alumnus Fellowship**
UCLA, value: US\$4,000

2018 **Diverse Intelligences Summer Institute Fellowship**
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

- 2021 **New Zealand Herald**, 08 April: *Pooch pride: Yes, dogs do get jealous, NZ study shows*
- 2021 **BBC Two, Chris Packham's Animal Einsteins**, 21 February: *Masterminds*
- 2020 **National Geographic Kids**, September: *Special Super-Smart Issue*
- 2020 **BBC Radio 4 More or Less**, 24 May: *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 **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 **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 – 2021 **Lisa Mulser**, University of Auckland [Secondary Supervisor]
Summer Scholar Project: *How do humans perform at intuitive statistics tasks?*
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, Topics in Cognitive Science

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