

# Amalia P. M. Bastos

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**Website:** www.apmbastos.com

**Citizenships:** Portugal, Brazil

**Residency:** New Zealand

## EMPLOYMENT

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- 2022 – **Lecturer, University of California San Diego**  
Department of Cognitive Sciences
- 2022 – **Postdoctoral Scholar, University of California San Diego**  
Department of Cognitive Sciences, Comparative Cognition Lab  
Advisor: Prof. Federico Rossano
- 2021 – 2022 **Postdoctoral Research Fellow, The University of Auckland**  
School of Computer Science, Strong AI Lab  
Advisors: Prof. Michael Whitbrock & Dr. Alex Taylor

## EDUCATION

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- 2017 – 2021 **PhD in Psychology, The University of Auckland**  
Thesis: Behaviour and Complex Cognition in Kea (*Nestor notabilis*)  
Advisor: Dr. Alex 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?  
Advisor: Prof. Alex Kacelnik  
Studied under a full CNPq scholarship.

## PUBLICATIONS

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

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

### Peer-Reviewed Journal Articles

\*Denotes equal authorship.

**Bastos, A. P. M.,** Nelson, X. J., & Taylor, A. H. (*in press*) From the lab to the wild: How can captive studies aid the conservation of kea (*Nestor notabilis*)? *Current Opinion in Behavioral Sciences*.

**Bastos, A. P. M.,** Wood, P. M., & Taylor, A. H. (2021) Are parrots naïve realists? Kea behave as if the real and virtual worlds are continuous. *Biology Letters*, 17(9), 20210298. DOI: 10.1098/rsbl.2021.0298

**Bastos, A. P. M.\*,** Horváth, K.\*, Webb, J., Wood, P. M., & Taylor, A. H. (2021) Self-care tooling innovation in a disabled kea (*Nestor notabilis*). *Scientific Reports*, 11, 18035. DOI:10.1038/s41598-021-97086-w

- Bastos, A. P. M.,** Wood, P. M., & Taylor, A. H. (2021) Kea (*Nestor notabilis*) fail a loose-string connectivity task. *Scientific Reports*, 11, 15492. DOI: 10.1038/s41598-021-94879-x
- Bastos, A. P. M.,** Neilands, P., Hassall, R., Lim, B. C., & Taylor, A. H. (2021) Dogs mentally represent jealousy-inducing social interactions. *Psychological Science*, 32(5): 646-654. 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*, 126(2), 175–183. DOI: 10.1111/eth.12944

## SELECTED AWARDS & ACHIEVEMENTS

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| 2022 | <b>ERC Consolidator Grant</b> (Named Senior Postdoctoral Fellow, PI: Dr. Alex Taylor)<br>European Research Council, value: €2,051,921   |
| 2022 | <b>10<sup>th</sup> Most Downloaded Paper in Scientific Reports Ecology Collection 2021</b><br>For: “ <i>Self-care tooling innovation in a disabled kea (Nestor Notabilis)</i> ” |
| 2021 | <b>Faculty of Science Strategic Initiative PhD Output Award</b><br>The University of Auckland, value: NZD\$4,000  |
| 2021 | <b>Early Career Collaboration Enhancement Award</b><br>Diverse Intelligences Summer Institute, value: US\$5,000   |
| 2019 | <b>Diverse Intelligences Summer Institute Alumnus Fellowship</b><br>UCLA, value: US\$4,000  |
| 2018 | <b>Diverse Intelligences Summer Institute Fellowship</b><br>UCLA, value: US\$2,830  |
| 2013 | <b>Full CNPq Undergraduate Scholarship</b><br>University of Oxford / CNPq, value: £116,000  |

## TEACHING EXPERIENCE

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- 2022 – **COGSCI 142: Animal Communication**, Lecturer  
University of California San Diego
- 2018 **BIOSCI 337: Animal Behaviour**, Graduate Teaching Assistant  
The University of Auckland
- 2018 **BIOSCI 207: Adaptive Form and Function**, Graduate Teaching Assistant  
The University of Auckland

## TALKS, PRESENTATIONS & POSTERS

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

- Nov 2021 Kinds of Intelligence 3\*. “Kea show three signatures of domain-general inference.” [Workshop]
- Oct 2021 Department of Cognitive Science, University of California San Diego\*. “Behaviour and complex cognition in kea parrots.” [Invited Talk]
- Oct 2021 Royal Forest and Bird Protection Society of New Zealand\*. “What do we know about kea intelligence and how can we protect them?” [Invited Talk]
- Sept 2021 School of Biological Sciences Seminar Series, University of Canterbury. “The cognitive abilities of New Zealand’s alpine parrot.” [Invited Seminar]
- July 2021 CogSci 2021: Comparative Cognition - Animal Minds\*. “Kea show three signatures of domain-general inference.” [Poster]
- July 2021 Canine Science Forum 2021\*. “Dogs mentally represent jealousy-inducing social interactions.” [Poster]
- April 2021 28th Annual International Conference on Comparative Cognition\*. “Kea show three signatures of domain-general statistical inference.”
- Mar 2021 Department of Conservation Kea Workshop: “Behaviour, cognition, and conservation of kea.” [Invited Talk]
- Sept 2020 ASSAB 2020 Conference\*. “Kea show three signatures of domain-general statistical inference.”
- July 2019 Diverse Intelligences Grantee Summit, University of St. Andrews. “Evolutionary aesthetics? Visual preferences in kea.” [Invited Talk]
- 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.”

## SELECTED WORKSHOPS & COURSES ATTENDED

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- 2021 **Kinds of Intelligence Programme**  
Leverhulme Centre for the Future of Intelligence; University of Cambridge
- 2021 **Representing the world in the developing mind: From objects to context**  
Central European University Summer Course
- 2021 **Evolution of Normativity Workshop**

## SELECTED MEDIA COVERAGE

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- 2021 **The Times**, 29 September: *Endangered kea parrots learn to use touchscreen computers*
- 2021 **Australian Geographic**, 11 September: *Meet Bruce, the disabled kea who practices 'self care'*
- 2021 **The New York Times**, 10 September: *Bruce Is a Parrot With a Broken Beak. So He Invented a Tool.*
- 2021 **The Guardian**, 10 September: *'He has adapted': Bruce the disabled New Zealand parrot uses tools for preening*
- 2021 **IFL Science**, 12 April: *The mere thought of you petting another dog may make your dog jealous*
- 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 **TVNZ1 Sunday**, 05 April: *Kea, Kaitiaki*
- 2020 **The Times**, 05 March: *Parrots understand probability*
- 2020 **The Guardian**, 03 March: *Study finds parrots weigh up probabilities to make decisions*
- 2020 **Forbes**, 03 March: *Parrots Make Predictions Based on Statistical Probabilities*
- 2018 **New Zealand Geographic**, May/June: *Birds of Play*

## THESIS & RESEARCH MENTORSHIP

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### 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**, The University of Auckland [Secondary Supervisor]  
Summer Scholar: *Human performance in non-verbal 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, The University of Auckland  
Honours Thesis: *A Signature-Testing Approach of Jealousy in Dogs*

## OTHER SELECTED RESEARCH & MANAGEMENT EXPERIENCE

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- 2021 – 2022 **Cognitive Science Consultant**  
CleverPet, Inc (Leo Trottier, CEO)
- 2018 – 2020 **Research Network Co-Founder**  
Evolution Research at Auckland, The University of Auckland, NZ
- 2018 – 2019 **Research Group Manager** (Prof. Quentin D. Atkinson)  
Language and Cultural Evolution Group, The University of Auckland, NZ
- 2017 – 2020 **Research Assistant and Lab Coordinator** (Dr. Alex H. Taylor)  
Animal Minds Lab, The University of Auckland, NZ
- 2016 **Visiting Student** (Prof. Alex Kacelnik and Dr. Alice Auersperg)  
The Goffin Lab, University of Vienna, Austria

## PROFESSIONAL SERVICE

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

**Grant Reviewer:** Mind Science Foundation Tom Slick Research Awards in Consciousness  
**Journal Reviewer:** Animal Cognition, Behaviour, Current Zoology, Animal Behavior and Cognition, Topics in Cognitive Science, Notornis, PeerJ

## OTHER SKILLS & EXPERIENCE

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- Languages** English (fluent); Portuguese (fluent); Spanish (read fluently, speak, and write with basic competence); French (read with basic competence).
- Translation** Professional translation and proof-reading services of scientific manuscripts. Examples, 10.1371/journal.pmed.0040305 & 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](http://www.amaliabastos.com)