

AMALIA PINKUSFELD MEDEIROS BASTOS

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Citizenships: Portugal, Brazil | Residency: New Zealand

EDUCATION

The University of Auckland, New Zealand January 2017 – September 2021
PhD in Psychology, School of Psychology
Advisor: Dr. Alexander Taylor. PhD Award Date: 03/05/2022 (*Awarded with no corrections*)

University of Oxford, UK October 2013 – September 2016
BA(Hons) in Biological Sciences, Advisor: Dr. Alex Kacelnik
Studied under a full scholarship. (*First Class*)

POSTDOCTORAL TRAINING:

Johns Hopkins University, USA February 2023 – Present
Postdoctoral Fellow, Department of Psychological and Brain Sciences
Advisor: Dr. Christopher Krupenye

University of California San Diego, USA February 2022 – January 2023
Postdoctoral Scholar, Department of Cognitive Science
Advisor: Dr. Federico Rossano

University of California San Diego, USA March 2022 – July 2022
Adjunct Instructor, Department of Cognitive Science

The University of Auckland, New Zealand December 2021 – February 2022
Research Fellow, School of Psychology & School of Computer Science
Advisors: Dr. Alexander Taylor & Dr. Michael Witbrock

PUBLICATIONS [Three key publications are shown in *blue font*][*denotes equal contribution]

2022

13. Smith, G. E.*, **Bastos, A. P. M.***, Chodorow, M., Taylor, A. H., Pepperberg, I. M. (2022). Contrafreeloading in kea (*Nestor notabilis*) in comparison to grey parrots (*Psittacus erithacus*). *Scientific Reports*, 12, 17415. DOI: 10.1038/s41598-022-21370-6. (Citations: 0, IF: 4.99)
12. Taylor, A. H., **Bastos, A. P. M.**, Brown, R. L, Allen, C. (2022) The signature-testing approach to mapping biological and artificial intelligences. *Trends in Cognitive Sciences*, 26(9), 738-750. DOI: 10.1016/j.tics.2022.06.002. (Citations: 2, IF: 15.40)
11. **Bastos, A. P. M.**, Nelson, X. J., & Taylor, A. H. (2022) From the lab to the wild: How can captive studies aid the conservation of kea (*Nestor notabilis*)? *Current Opinion in Behavioral Sciences*, 45, 101131. DOI: 10.1016/j.cobeha.2022.101131. (Citations: 2, IF: 4.47)

2021

10. **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. (Citations: 2, IF: 3.81)
9. **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. (Citations: 7, IF: 4.99)
8. **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. (Citations: 2, IF: 4.99)
7. **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. (Citations: 4, IF: 4.99)

2020

6. **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. (Citations: 7, IF: 2.99)
5. **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 (Citations: 34, IF: 17.69)
4. 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: Biological Sciences*, 287, 20192236. DOI: 10.1098/rspb.2019.2236. (Citations: 20, IF: 5.53)
3. 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. (Citations: 1, IF: 4.99)

2019

2. **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. (Citations: 10, IF: 4.99)
1. 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. (Citations: 11, IF: 1.90)

SELECTED AWARDS & ACHIEVEMENTS

- 2022 ERC Consolidator Grant (*named collaborator and postdoctoral fellow, PI: Dr. Alex Taylor*)
European Research Council, value: €2,051,921
- 2022 10th Most Downloaded Paper in Scientific Reports Ecology Collection
For: “*Self-care tooling innovation in a disabled kea (Nestor notabilis)*”
- 2021 **Faculty of Science Strategic Initiative PhD Output Award**
The University of Auckland, value: NZD\$4,000
- 2021 Early Career Collaboration Enhancement Award
Diverse Intelligences Summer Institute, value: USD\$5,000
- 2019 Diverse Intelligences Summer Institute Alumnus Fellowship
UCLA & Templeton World Charity Foundation, value: USD\$4,000
- 2018 Diverse Intelligences Summer Institute Fellowship
UCLA & Templeton World Charity Foundation, value: USD\$2,830
- 2013 **Full CNPq-Oxford Undergraduate Scholarship**
University of Oxford & CNPq, value: £116,000

TEACHING EXPERIENCE

[*denotes remote course]

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- 27/06/2022 – 30/07/2022 **COGSCI 13: Cognition in the Wild***, Instructor
University of California San Diego, USA
- 23/03/2022 – 10/06/2022 **COGSCI 142: Animal Communication**, Instructor
University of California San Diego, USA
- 31/05/2021 – 31/12/2021 **BIOSCI 337: Animal Behaviour**, Graduate Teaching Assistant
The University of Auckland, New Zealand
- 31/05/2021 – 31/12/2021 **BIOSCI 207: Adaptive Form and Function**, Graduate Teaching Assistant
The University of Auckland, New Zealand

SELECTED WORKSHOPS & COURSES ATTENDED

- 2021 Kinds of Intelligence Programme
Leverhulme Centre for the Future of Intelligence, University of Cambridge (Remote)
- 2021 Representing the world in the developing mind: From objects to context
Central European University Summer Course (Remote)
- 2021 Evolution of Normativity Workshop
York University, UK; John Carroll University, USA (Remote)

SELECTED TALKS, PRESENTATIONS, & POSTERS

- 29/09/2022 “The Science Behind Button Teaching”
Petminded Online Community (Remote Workshop)
- 07/07/2022 “If I Could Talk to the Animals”
Joseph Moore Museum of Earlham College, Richmond IN, USA (Invited Talk)
- 26/11/2021 “Kea show three signatures of domain-general inference”
Kinds of Intelligence 3, University of Cambridge, UK (Remote Workshop)
- 07/10/2021 “What do we know about kea intelligence and how can we protect them?”
Royal Forest and Bird Protection Society of New Zealand* (Invited Remote Talk)
- 06/10/2021 “Behaviour and complex cognition in kea parrots”
Department of Cognitive Science, UCSD (Remote Invited Talk)

30/09/2021	“The cognitive abilities of New Zealand’s alpine parrot” SBS Seminar Series, University of Canterbury, NZ (Invited Seminar)
27/07/ 2021	“Kea show three signatures of domain-general inference.” CogSci 2021: Comparative Cognition - Animal Minds (Remote Poster)
07/07/2021	“Dogs mentally represent jealousy-inducing social interactions.” Canine Science Forum 2021 (Remote Poster)
10/04/2021	“Kea show three signatures of domain-general statistical inference” 28th Annual International Conference on Comparative Cognition (Remote Poster)
18/03/2021	“Behaviour, cognition, and conservation of kea” Department of Conservation Workshop, Willowbank Wildlife Reserve, Canterbury, NZ (Invited Talk)
30/09/2021	“Kea show three signatures of domain-general statistical inference” ASSAB 2020 Conference (Remote Talk]
07/09/2019	“Evolutionary aesthetics? Visual preferences in kea” Diverse Intelligences Grantee Summit, University of St. Andrews, UK (Invited Talk)

SELECTED MEDIA COVERAGE

17/05/2022	<i>Psychology Today</i> : How can a species’ behaviour inform its conservation?
29/09/2021	<i>The Times</i> : Endangered kea parrots learn to use touchscreen computers
14/09/2021	<i>Smithsonian Magazine</i> : Bruce the parrot uses tools to survive despite a broken beak
11/09/2021	<i>Australian Geographic</i> : Meet Bruce, the disabled kea who practices ‘self care’
10/09/2021	<i>The New York Times</i> : Bruce is a parrot with a broken beak. So he invented a tool
12/04/2021	<i>IFL Science</i> : The mere thought of you petting another dog may make your dog jealous
08/04/2021	<i>New Zealand Herald</i> : Pooch pride: Yes, dogs do get jealous, NZ study shows
21/02/2021	<i>BBC Two, Chris Packham’s Animal Einsteins</i> : Masterminds
05/04/2020	<i>TVNZ1, Sunday</i> : Kea, Kaitiaki
03/03/2020	<i>The Guardian</i> : Study finds parrots weigh up probabilities to make decisions
03/03/2020	<i>Forbes</i> : Parrots Make Predictions Based on Statistical Probabilities
01/05/2018	<i>New Zealand Geographic</i> : Birds of Play

THESIS & RESEARCH MENTORSHIP

2020 – 2021	Lisa Mulser, The University of Auckland [Secondary Supervisor] Summer Scholar: <i>Human performance in non-verbal intuitive statistics tasks</i>
2020	Kata Horváth, Campus Mundi Scholarship, Eötvös Loránd University Visiting Postgraduate Scholar
2020	Marieke van den Berg, HAS University of Applied Sciences Honours Thesis: <i>Do kea have aesthetic preferences?</i>
2020	Martin Dessart, La Faculté des Sciences de la Vie, Université de Strasbourg Master’s Thesis: <i>Effects of the warble call on optimism in kea (Nestor notabilis)</i>
2019 – 2020	Gabriela Venable, Yale Robert C. Bates Fellowship, Yale University Visiting Postgraduate Scholar
2019	Rosalie Molin, Licence Frontières du Vivant, Université Paris Descartes Honours Thesis: <i>Statistical inference in kea (Nestor notabilis)</i>
2019	Amy Zhang, Dartmouth Reynolds Fellowship, Dartmouth University Visiting Postgraduate Scholar
2017 – 2018	Byung Lim, The University of Auckland Honours Thesis: <i>A signature-testing approach of jealousy in dogs</i>

RESEARCH EXPERIENCE & FIELD SITES

Animal Methodologies: Behavioural studies, observational studies, touchscreen tasks, non-invasive sample collection, mist net trapping, whoosh net trapping, camera trapping.

Human Methodologies: Online surveys and questionnaires, online behavioural studies.

Humans

2022 – Comparative Cognition Lab, University of California San Diego

2021 – 2022 Animal Minds Lab & Strong AI Lab, The University of Auckland

Dogs

2022 – Comparative Cognition Lab, University of California San Diego

2021 & 2022 CleverPet Inc. [Consultant]

2017 – 2022 Animal Minds Lab, The University of Auckland

Birds

2017 – 2021 Animal Minds Lab & Willowbank Wildlife Reserve (kea parrots)

2017 – 2021 Animal Minds Lab (wild New Caledonian crows)

2016 The Goffin Lab, University of Veterinary Medicine Vienna (Goffin cockatoos)

Other

2017 – 2021 Animal Minds Lab, The University of Auckland (archer fish)

2015 Biodiversity Institute, University of Oxford [Intern] (paleobotany & paleoecology)

2012 Departamento de Zoologia, Universidade do Estado do Rio de Janeiro (rodent taxonomy & allometry)

PROFESSIONAL SERVICE

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

Journal Reviewer: Biology Letters [1], Animal Cognition [1], Behaviour [5], Current Zoology [2], Animal Behavior and Cognition [1], Topics in Cognitive Science [1], Notornis [1], PeerJ [1]