

Eduardo S. A. Santos

CONTACT INFORMATION	Departamento de Zoologia Universidade de São Paulo Rua do Matão, 101 — Trav. 14, sala 101 São Paulo — SP 05508-090 Brazil	<i>ph:</i> +55 (11) 3091-0989 <i>e:</i> eduardo.sa.santos@usp.br <i>w:</i> eduardosantos-lab.weebly.com
RESEARCH INTERESTS	Evolution of mating systems, parental care, sexual selection, life-history theory, comparative analysis, meta-analysis.	
ACADEMIC EXPERIENCE	Universidade de São Paulo , São Paulo, Brazil <i>Lecturer</i> April 2015 to current date <ul style="list-style-type: none">• I am a Lecturer in the Departamento de Zoologia of the Universidade de São Paulo. As a Lecturer, I am supervise graduate and post-graduate students, teach courses at both levels, and conduct research focused on Behavioural Ecology in my own lab. <i>Postdoctoral Fellow</i> January 2013 to April 2015 <ul style="list-style-type: none">• Fundação de Amparo à Pesquisa do Estado de São Paulo (FAPESP) fellowship. Running the research project entitled ‘Neotropical dragonflies: a model system for the study of the macro-ecology of sexual selection’.	
EDUCATION	University of Otago , Dunedin, New Zealand PhD, Zoology, September 2012 <ul style="list-style-type: none">• Thesis Topic: Mating system, parental care and the behavioural ecology of dunnocks• Supervisor: Dr. Shinichi Nakagawa• Area of Study: Evolution of mating systems, parental care and mating effort Universidade de Brasília , Brasília, Brazil MSc, Ecology, March 2009 <ul style="list-style-type: none">• Thesis Topic: Reproductive biology of <i>Vanellus chilensis</i> (Aves: Charadriidae): Why breed in groups? [Thesis written in Portuguese]• Supervisor: Dr. Regina H. Macedo• Area of Study: Cooperative breeding and parental investment Universidade Católica de Brasília , Brasília, Brazil BSc, Biological Sciences, July 2006 <ul style="list-style-type: none">• Thesis Topic: Good things come in small packages: Male-male interactions in the blue-black grassquit (<i>Volatinia jacarina</i>). [Thesis written in Portuguese]• Supervisor: Dr. Regina H. Macedo• Area of Study: Sexual selection and plumage colouration	
AWARDS	International Society for Behavioral Ecology <ul style="list-style-type: none">• Conference travel grant, 2012 University of Otago Division of Sciences <ul style="list-style-type: none">• Conference travel grant, 2012	

Australasian Evolution Society Conference

- Highly commended *PhD* student talk, 2011

22nd Annual Zoology Postgraduate Symposium

- 2nd place best talk, 2011

University of Otago Ecology Trust

- Research Grant, 2011

The Association for the Study of Animal Behaviour

- Research Grant, 2010

National Geographic Society

- Young Explorer Grant, 2008

Animal Coloration Research Group

- Student Travel Grant, 2008

Animal Behavior Society

- Developing Nation Research Awards, 2007
- Student Travel Grant – 1st Latin American Animal Behavior Society Meeting, 2007

PEER-REVIEWED
PUBLICATIONS

1. Macedo-Rego R, Costa-Schmidt LE, **Santos ESA** & Machado G. (*In review*) When the past condemns you: long-term negative effects of prolonged dietary restriction on male mating effort in a gift-giving spider. *Journal of Animal Ecology*
2. **Santos ESA**, Bueno PP, Gilbert JDJ & Machado G. (*In preparation*) Macroecology of parental care in arthropods: higher benefits of brood protection where biotic interactions are more intense.
3. **Santos ESA** & Nakagawa S. (*In preparation*) An experimental demonstration of sex-specific sensitivity to rearing environments in dunnocks: different mating systems, different rules.
4. **Santos ESA** & Nakagawa S. (*In preparation*) Facultative adjustment of paternal care in the face of female infidelity: an empirical study and meta-analysis in birds.
5. **Santos ESA**, Santos LLS, Lagisz M & Nakagawa S. 2015. Conflict and cooperation over sex: the consequences of social and genetic polyandry for reproductive success in dunnocks. *Journal of Animal Ecology*, doi: 10.1111/1365-2656.12432
6. Tomkins S, Moore F, Holtmann B, **Santos ESA** & Lara CE. 2015. Nest re-use by dunnocks (*Prunella modularis*) in New Zealand: an uncommon behaviour revealed through a long-term study. *Notornis*, 62, 96-98.
7. Moulton MP, **Santos ESA**, Cropper Jr. WP & Lim JN. 2014. New records for Passeriform introductions to the Otago acclimatisation region in New Zealand: evidence of a Franklin Delano Roosevelt effect. *Notornis*, 61, 219–222.
8. Martínez-Ortega C, **Santos ESA** & Gil D. 2014. Species-specific differences in relative eye size are related to patterns of edge avoidance in an Amazonian rainforest bird community. *Ecology and Evolution*, doi: 10.1002/ece3.1194
9. **Santos ESA** & Nakagawa S. 2013. Breeding biology and variable mating system of a population of introduced dunnocks (*Prunella modularis*) in New Zealand. *PLoS ONE*, 8(7), e69329. doi: 10.1371/journal.pone.0069329

10. **Santos ESA**, Jamieson IG, Santos LLS & Nakagawa S. 2013. Low genetic and morphological differentiation between an introduced population of Dunnocks in New Zealand and an ancestral population in England. *Biological Invasions*, 15, 185–197.
11. **Santos ESA** & Nakagawa S. 2012. The costs of parental care: a meta-analysis of the trade-off between parental effort and survival in birds. *Journal of Evolutionary Biology*, 25, 1911–1917.
12. Nakagawa S. & **Santos ESA**. 2012. Methodological issues and advances in biological meta-analysis. *Evolutionary Ecology*, 26, 1253–1274.
13. **Santos ESA**. 2012. Discovery of previously unknown historical records on the introduction of dunnocks (*Prunella modularis*) into Otago, New Zealand during the 19th century. *Notornis*, 59, 79–81.
14. **Santos ESA**, Scheck D & Nakagawa S. 2011. Dominance and plumage traits: meta-analysis and meta-regression analysis. *Animal Behaviour*, 82, 3–19.
15. **Santos ESA** & Macedo RH. 2011. Load lightening in southern lapwings: Group-living mothers lay smaller eggs than pair-living mothers. *Ethology*, 117, 547–555.
16. **Santos ESA**, Maia R & Macedo RH. 2009. Condition-dependent resource value affects male-male competition in the blue-black grassquit. *Behavioral Ecology*, 20, 553–559.
17. Dias RI, **Santos ESA** & Macedo RH. 2009. Mating system and sexual conflict in the blue-black grassquit (*Volatinia jacarina*, Aves: Emberizidae): Extra-pair mating behavior sets the scene. *Oecologia Brasiliensis*, 13, 183–191.
18. Aguilar TM, Maia R, **Santos ESA** & Macedo RH. 2008. Parasite levels in blue-black grassquits correlate with male displays but not female mate choice. *Behavioral Ecology*, 19, 292–301.
19. Felipe M, Andrade R, Petrofeza S, Maranhão A, Torres F, *et al.* 2003. Transcriptome characterization of the dimorphic and pathogenic fungus *Paracoccidioides brasiliensis* by EST analysis. *Yeast*, 20, 263–271. [my name is abbreviated as **Alves, ES** in this publication]

BOOK CHAPTERS

Maia R & **Santos ESA**. 2008. Tropical Bird Communities, *in* Tropical Biology and Natural Resources, edited by R.H. Macedo & M. Morris, *in* Encyclopedia of Life Support Systems (EOLSS), Developed under the Auspices of the UNESCO, Eolss Publishers, Oxford, UK, [<http://www.eolss.net>].

ONLINE SPECIES ACCOUNTS

1. **Santos ESA**. 2013. Dunnock. *In* Miskelly, C. M. (ed.) *New Zealand Birds Online*. [Link to species account](#).
2. **Santos ESA**. 2010. Southern Lapwing (*Vanellus chilensis*). *Neotropical Birds Online*. (TS Schulenberg, Editor). Ithaca: Cornell Lab of Ornithology; retrieved from Neotropical Birds Online: [Link to species account](#).
3. Diniz P & **Santos ESA**. 2010. Coal-crested Finch (*Charitospiza eucosma*). *Neotropical Birds Online* (TS Schulenberg, Editor). Ithaca: Cornell Lab of Ornithology; retrieved from Neotropical Birds Online: [Link to species account](#).

1. **Santos ESA** & Machado G. 2014. Sexual dichromatism and Rensch's rule in wing pigmentation in New World dragonflies. *In: International Society for Behavioral Ecology 15th Biennial Congress.* (Poster presentation)
2. Muniz DG, **Santos ESA**, Nakagawa S, Guimarães Júnior PR & Machado G. 2014. Spatially explicit network model for female choice of extra-pair partners. *In: International Society for Behavioral Ecology 15th Biennial Congress.* (Oral presentation)
3. Machado G, Bueno PP, Gilbert J & **Santos ESA**. 2014. Are the benefits of parental care higher in the tropics? A meta-regression approach. *In: International Society for Behavioral Ecology 15th Biennial Congress.* (Oral presentation)
4. **Santos ESA**, Bueno PP, Gilbert J & Machado G. 2013. Macroecology of parental care in arthropods: higher benefits of brood protection where biotic interactions are more intense. *In: Evolution 2013.* (Oral presentation by Santos ESA)
5. Bueno PP, **Santos ESA** & Machado G. 2012. Macroecologia do cuidado parental em artrópodes: com muitos inimigos vêm grandes responsabilidades para os pais. *In: XXX Encontro Anual de Etologia.* (Oral presentation by Santos ESA)
6. **Santos ESA** & Nakagawa S. 2012. Nestling sex-specific sensitivity to rearing environment in dunnocks: different mating systems, different rules. *In: XXX Encontro Anual de Etologia.* (Oral presentation)
7. **Santos ESA** & Nakagawa S. 2012. From conflict in polyandry to cooperation: On the evolution of the mating system in promiscuous dunnocks. *In: International Society for Behavioral Ecology 14th Biennial Congress.* (Oral presentation)
8. **Santos ESA**, Santos LLS & Nakagawa S. 2011. Are New Zealand dunnocks more promiscuous than their British counterparts? *In: 22nd Annual Zoology Postgraduate Symposium.* (Oral presentation)
9. **Santos ESA** & Nakagawa S. 2011. The cost of reproduction in birds: a reappraisal of the trade-off between parental effort and survival. *In: Australasian Evolution Society Conference 2011.* (Oral presentation)
10. **Santos ESA** & Nakagawa S. 2010. Advances in meta-analysis in behavioural ecology. *In: International Society for Behavioral Ecology 13th Biennial Congress.* (Oral presentation)
11. **Santos ESA** & Nakagawa S. 2010. Unpredictable dunnocks predict behavioural time negotiation over parental care. *In: International Society for Behavioral Ecology 13th Biennial Congress.* (Poster presentation)
12. **Santos ESA**, Blomqvist D & Macedo RH. 2008. The benefit of group size in southern lapwings (*Vanellus chilensis*): Higher hatch success probability? *In: International Society for Behavioral Ecology 12th Biennial Congress.* (Poster presentation)
13. Maia R, **Santos ESA**, Goedert D & Macedo RH. 2008. Modulation of plumage coloration characteristics of *Sicalis citrina* males. *In: XVI Congresso Brasileiro de Ornitologia.* (Poster presentation by R. Maia)
14. **Santos ESA** & Macedo RH. 2008. Lack of plumage ultraviolet signaling in blue-black grassquits (*Volatinia jacarina*). *In: Iridescence: More than meets the eye.* (Oral presentation)

15. **Santos ESA** & Macedo RH. 2007. Lack of status signaling by structural coloration in blue-black grassquits (*Volatinia jacarina*). *In: XXV Encontro Anual de Etologia*. (Oral presentation)
16. Veloso H, **Santos ESA**, Maia R & Macedo RH. 2006. Influence of resource distribution on blue-black grassquits (*Volatinia jacarina*) territorial aggregation. *In: XXIV Encontro Anual de Etologia*. (Poster presentation)
17. **Santos ESA** & Macedo RH. 2006. Good things come in small packages: Male-male interactions in the blue-black grassquit (*Volatinia jacarina*). *In: Animal Behavior Society, 1st Latin American Behavior Society Meeting*. (Oral presentation)
18. **Santos ESA**, Aguilar TM, Carregaro JB & Macedo RH. 2005. Lack of association between morphometric and plumage variables and parasites in a wild population of blue-black grassquits. *In: Animal Behavior Society, 42nd Annual Meeting*. (Poster presentation)

REVIEWER

2010–present time — *Animal Behaviour*, *Behavioral Ecology*, *Behavioral Ecology and Sociobiology*, *Biota Neotropica*, *Ecology Letters*, *Emu*, *Ethology*, *Frontiers in Ecology and Evolution* (review editor in the section *Behavioral and Evolutionary Ecology*), *Frontiers in Zoology*, *Ibis*, *Journal of Animal Ecology*, *Journal of Evolutionary Biology*, *Journal of the Royal Society of New Zealand*, *Molecular Ecology*, *Oecologia Australis* (also associate editor, 2010–2011), *Proceedings of the Royal Society B*, *The Science of Nature*, and *The Wilson Journal of Ornithology*.

TEACHING EXPERIENCE

Invited Lecturer

Universidade de São Paulo

- Animal Behaviour (2015)
- Physiological Bases of Animal Behaviour (2014)
- Ecology of the Atlantic Forest (field course, 2013, 2015)

Universidade Católica de Brasília

- Methods in Field Biology (field course, 2008)

Demonstrator (Teacher Assistant)

University of Otago

- Biological Data Analysis and Computing with R (2010, 2011)
- Behavioural Ecology (2010, 2011)

Universidade Católica de Brasília

- Behavioral Ecology (2004, 2005, 2008)
- Bird Research Techniques (field course, 2005)
- Brazilian Biomes (field course, 2005)
- Introduction to Conservation Biology and Ecosystem Management (2004)

PARTICIPATION IN COMMITTEES

I have participated as an examiner in four *MSc* examination committees, a *PhD* qualification exam, and I am also part of a *PhD* committee.