

## **GABRIEL SILVA DOS SANTOS**

PhD candidate in Ecology and Evolution programme  
Rio de Janeiro State University, Brazil  
ssantos.gabriel@gmail.com

### **EDUCATION**

- 2017 – 2021 PhD candidate in Ecology and Evolution programme  
Rio de Janeiro State University - Brazil  
Supported by CAPES Scholarship (4 years ~ 18,857€)
- 2019 – 2019 University of Oxford PhD – Research collaboration  
Supported by Capes PRINT scholarship (6 months – 9,840£)
- 2018 – 2019 Applied Statistics Specialization  
Federal Rural University of Rio de Janeiro (Brazil)
- 2014 – 2015 MSc Ecology and evolution  
Rio de Janeiro State University - Brazil  
Supported by CAPES Scholarship (1 year ~ 3,854€)
- 2008 – 2013 BSc Biological Science  
Federal University of Espírito Santo - Brazil  
CAPES/CNPQ Scholarships (3 years ~3,130€).

### **RESEARCH INTERESTS**

- Life-history evolution and trait diversification;
- Demographic and population responses to environmental fluctuation;
- Demographic modelling applied to endangered species conservation and invasive species management;
- Open-science and scientific diffusion;
- Statistical theory and application;
- Programming;
- Animal behaviour

### **GRANTS AND AWARDS**

- Jim Nichols Travel Award (US\$ 2000)
- Bayesian Population Analyses – Swiss Ornithological Institute (~ 600€)

- 6x Brazilian scholarships (described in *Education* section)

## **EDUCATIONAL EXPERIENCE**

### **Teaching assistant**

- 2017-2018     Sampling design in ecological experiments. Optional discipline for Biological Sciences Bachelor's degree at the Rio de Janeiro State University, Brazil.
- 2011-2012     Vertebrate Anatomy and Biodiversity. Federal University of Espírito Santo, Brazil.

### **Advisoring**

- 2019     Co-advisor, Thesis for bachelor's degree of Jairo Ferreira. Diversity, distribution, and seasonality of bees (Hymenoptera: Anthophila) at Itatiaia National Park. Rio de Janeiro State University.
- 2018     Co-advisor, Thesis for bachelor's degree of Marcilene Borsonelli. The importance of females for a population of Lowland Tapir *Tapirus terrestris* conservation. 2018. Federal University of Espírito Santo.
- 2015-2016     Co-advisor, scientific initiation of Daviani Carla Angeli, Douglas Neumann and Johnathan Jarske. Richness and diversity of owls (Aves, Strigiformes) at the ecological corridor of Alto Misterioso, Itaguaçu – Espírito Santo – Brazil: a tool for choosing priority areas for conservation. Seráfico São Francisco de Assis Faculty – Santa Tereza – Brazil.

## **OTHER PROFESSIONAL EXPERIENCES**

- 2017 - Current     Biostatistical consultance – Freelancer
- 2016 - 2017     Biologist in CONCREMAT Engenharia e Tecnologia S/A.
- 2014     Biological consulting service for the oil pipeline from Fazenda São Rafael Station to Fazenda Alegre station. Outsourced employee by Petrobras.

2014 Biological consulting service for the power line between Bom Jesus da Lapa II station and Ibicoara station.

## **PUBLICATIONS**

In prep. **Santos, G.S.**; Salguero-Gómez, R.; Dias, A.T.C.; Kajin, M. *et al.* Twenty years of demographic buffering hypothesis: A review of concepts and a new analytical framework. To be submitted to **Ecology**

**Santos, G.S.**; Nater, C.; Capdevilla, P.; Salguero-Gómez, R.; Kajin, M. The multiple meanings and scales of buffering. To be submitted to **Trends in Ecology & Evolution**

**Santos, G.S.**; Figueiredo, M.S.L.; Salguero-Gómez, R.; Dias, A.T.C.; Kajin, M. Linking life-history strategies and phylogeny with responses to environmental variability. To be submitted to **Nature or Nature Ecology & Evolution.**

**Santos, G.S.**; Salguero-Gómez, R.; Coelho, F.L. Evaluating the performance of Wood's Quadratic Programme to estimate demographic parameters. To be submitted to **Population Ecology Journal.**

Marquez-Alvis, S.; Vallejos, L.M.; **Santos, G.S.**; Paredes-Guerrero, S.; Pollack-Vellasquez, L. Is seasonality a main factor in census survey of Andean Condor? To be submitted to **Journal of Field Ornithology.**

Accepted **Santos, G.S.**; Vecchi, M.B. & Alves, M.A.S. How frequent is the transatlantic dispersal of Domestic Pigeons *Columba livia domestica*? Potential implications for conservation. **Oecologia Australis. In press.**

Published Zucaratto, R.; **Santos, G.S.**; Pires, A.S. & Bergallo, H.G. Coalescing past and present to predict the future: historical

attributes and current situation of a non-native palm on an island in the Atlantic Forest in Brazil. **Journal of Coastal Conservation**. 24(20). 2020. <https://doi.org/10.1007/s11852-020-00738-8>

**Santos, G.S.;** Ribeiro, I.C.; Centoducatte, L.D.; Mendes, S.L. (Birds breeding biology and homogenization process in an urban green area at Atlantic rainforest of Southeastern Brazil). Reprodução da avifauna e o processo de homogeneização em uma área verde planejada no sudeste da Mata Atlântica. **Neotropical Biology and Conservation**. 14(1): 83-98. 2019. <https://doi.org/10.3897/neotropical.14.e34838>

**Santos, G.S.** (Distribution and conservation of Double-toothed Kite (*Harpagus bidentatus*) (Accipitridae) in Espírito Santo, Brazil.). Distribuição e conservação do gavião-ripina (*Harpagus bidentatus*) (Accipitridae) no Espírito Santo, Brasil. **Atualidades Ornitológicas (Impresso)**, 182: 11-15. 2014.

**Santos, G. S.;** Mendes, S. L. ; Pacheco, J. F.(First record of Stygian Owl for Espírito Santo.). Primeiro registro do Mocho-Diabo, *Asio stygius*, para o estado do Espírito Santo. **Atualidades Ornitológicas (Impresso)**, 169:20. 2012.

#### **ORGANIZED WORKSHOPS, TALKS & SHORT COURSES**

- 2018 (Gaps and opportunities for young ornithologists) - Lacunas de Conhecimento e Oportunidades para um jovem Ornitólogo. (Lecture).
- 2018. (Using the software R) Introdução ao software R. – Faculdades Integradas Espírito-Santenses – Vitória – Brazil. (Lecture).
- 2016. (Using the software R) - Introducción al software Estadístico R. 2016. National University of Trujillo – Peru. (Lecture).

2012. (Become a young citizen ornithologist) - Jovens Pesquisadores - Jovens Ornitólogos – National Institute of Atlantic forest (INMA) – Brazil. (Lecture).
2013. III Symposium Capixaba of Ecology – Ecological interactions. 2013. (Staff member).
2010. III Symposium of environmental biomonitoring: ecotoxicology. 2010. (Staff member).

## PRESENTATIONS

- 2019 **Santos, G.S.**; Figueiredo, M.S.L.; Salguero-Gómez, R.; Dias, A.T.C.; Kajin, M. Linking life-history strategies and phylogeny with responses to environmental variability. British Ecological Meeting. (Poster)
- Marquez-Alvis, S.; Vallejos, L.M.; **Santos, G.S.**; Paredes-Guerrero, S.; Pollack-Vellasquez, L. Is seasonality a main factor in census survey of Andean Condor? Neotropical Ornithology Congress. (Talk).
- 2017 **Santos, G.S.**; Kajin, M. Correlation among vital rates: A challenge to evolutionary demographers? In: XIII Congresso de Ecologia & III International Symposium of Ecology and Evolution, 2017, Viçosa. Anais do XIII Congresso de Ecologia & III International Symposium of Ecology and Evolution, 2017. (Poster).
- 2015 Alves, M.A.S ; Vecchi, M.B. ; Martins-Silva, J. ; Vallejos, L. M. ; Saint-Clair, R. ; Ribeiro, E. A. ; Missagia, C.C.C. ; Silva, C. P. ; Gallindo, L. S. ; Patiu, F. M. ; **Santos, G. S.** (Florestal birds inventory in Ilha Grande). Levantamento de aves florestais na Ilha Grande, RJ. In: I Simpósio da Rede PPBioMata Atlântica, 2015, Rio de Janeiro. I Simpósio da Rede PPBioMata Atlântica, 2015. v. 1. (Poster)

- 2014 **Santos, G. S.**; Ribeiro, E. A. ; Sarnaglia-Junior, V. B. ; Martins, J. S. (Brief review of *Harpagus bidentatus* record for Espírito Santo). Breve revisão dos registros de *Harpagus bidentatus* (Aves, Accipitridae) para o estado do Espírito Santo, Brasil. In: III Simpósio sobre a Biodiversidade da Mata Atlântica, 2014, Santa Teresa. Anais do III Simbioma, 2014. (Poster).
2013. **Santos, G. S.**; Corsini, C. ; Mendes, S. L. ; Araújo-Lima, V . (Hierarchy and interspecific dominance in a hummingbird community). Hierarquia de dominância interespecífica em uma comunidade de beija-flores (Aves, Trochilidae). In: XXXI Encontro Anual de Etologia, 2013, São Paulo. Anais do XXXI Encontro Anual de Etologia, 2013. (Poster).
- Sarnaglia-Junior, V. B. ; **Santos, G. S.**; Assunção, V.A ; Moreira, S.N. (Is *Peperomia pseudoestrellensis* C. DC. Endangered or subestimated?) *Peperomia pseudoestrellensis* C. DC. Ameaçada ou subestimada? Uma abordagem através da modelagem de distribuição potencial. In: XI Congresso de Ecologia do Brasil e I Congresso Internacional de Ecologia, 2013, Porto Seguro. Anais do XI Congresso de Ecologia do Brasil e I Congresso Internacional de Ecologia, 2013. (Poster).
- 2012 **Santos, G. S.**; Barreto, F.C.C; Mendes, S. L. (Use pattern of artificial resources by hummingbirds at prof. Mello Leitão biologic museum). Padrão de uso de recursos artificiais por beija-flores no Museu de Biologia Prof<sup>o</sup> Mello Leitão. In: Simpósio sobre a Biodiversidade da Mata Atlântica, 2012, Santa Teresa - ES. Anais do I Simpósio sobre a Biodiversidade da Mata Atlântica. Santa Teresa, 2012. p. 61-65. (Poster).
- 2011 Araújo-Lima, V ; **Santos, G. S.** ; Souza, N.C.G . (Territory size and carry capacity of *Formicivora rufa* (Wied, 1831) (Passeriforme, Thamnophilidae) in a resting shrub at Brazil Southeast). Tamanho do território e capacidade suporte de *Formicivora rufa* (Wied, 1831)

(Passeriforme, Thamnophilidae) na área aberta de restinga no sudeste do Brasil. In: Simpósio de Biologia da Conservação de Vertebrados, 2011, Vitória. Simpósio de Biologia da Conservação de Vertebrados, 2011. (Poster).

Sarnaglia-Junior, V. B. ; **Santos, G. S.** ; Silva, L. A ; Valadares, R. T.; Cantarino, S. J. (Piperaceae: conservation and current knowledge at Espírito Santo). Piperaceae: Conservação e conhecimento no Espírito Santo. In: X Congresso de ecologia e I Simpósio de Sustentabilidade, 2011, São Lourenço - MG. X Congresso de Ecologia e I Simpósio de Sustentabilidade, 2011. (Poster).

#### **RECOMENDATION LETTERS:**

Available upon request or directly in contact with:

**Maja Kajin** (Current PhD advisor): majakajin@gmail.com

**Helena de Godoy Bergallo** (Lab leader): nena.bergallo@gmail.com

**Rita Portela** (Collaborator): ritaportela@gmail.com

**Roberto Salguero-Gómez** (Co-advisor): rob.salguero@zoo.ox.ac.uk