

Erika Marques Santana

CONTACT INFORMATION	Biosciences Institute, Dept. of Ecology 321 Matão Street, 277 - Butantã, São Paulo, SP University of São Paulo, Brazil	e-mail: erika.ms@alumni.usp.br Website ORCID
CURRENT POSITION	Universidade de São Paulo (USP) Postdoctoral Fellow Guimarães Lab	August 2022 – January 2024
PROFESSIONAL APPOINTMENTS	University of São Paulo, São Paulo, SP, Brazil August 2021 - July 2022 – Lab manager at Guimarães Lab , FAPESP grant Federal Institute of Education Science and Technology, São Roque, SP, Brazil September 2020 - February 2021. Adjunct Professor on Biological Sciences (undergraduate and high school levels) University of São Paulo, São Paulo, SP, Brazil September 2019 - August 2020 – Lab manager at Guimarães Lab , FAPESP grant	
EDUCATION	University of São Paulo (USP), São Paulo, SP, Brazil 2014-2018 – Doctorate of Philosophy, Department of Ecology. 2011-2013 – Masters of Science, Department of Ecology. Catholic University of Santos (UNISANTOS), Santos, SP, Brazil 2005-2009 – Bachelor of Science, Biology 2005-2008 – Teaching degree in Biology	
FELLOWSHIPS AND AWARDS	<ul style="list-style-type: none">February 2023 - January 2024. CNPq; Junior Postdoctoral Fellowship (~US\$ 10,670; full salary for one year);August 2022-January 2023 – Schweizerische Nationalfonds (SNF, Switzerland); Research Fellowship (~US\$ 6105.00; full salary for six months);2019. Honorable mention (top 3 best theses) of 2019. University of São Paulo thesis award (Biological Sciences);2019. Best thesis of 2018, Awarded by the Department of Ecology, University of São Paulo;June-September 2017. CAPES; PhD Scholarship to study abroad (US\$7,600; full tuition and salary for four months to be a visiting scholar, University of New South Wales, Sydney, NSW, Australia);2014-2018. CAPES; PhD Scholarship (~US\$ 28,000; full salary for four years);2011-2013. CAPES; MSc Scholarship (~US\$7,700; full salary for two years).	
PEER REVIEWED PUBLICATIONS	<ol style="list-style-type: none">3. Silva-Soares, T., Del' Maestro, A., Araujo, S., Weber, L.N., Santana, E. M. 2022. Nest defensive behavior by a male <i>Physalaemus atlanticus</i> Haddad & Sazima 2004 (Anura: Leptodactylidae). Revista Latinoamericana de Herpetología 5(1): 208-212. DOI: 10.22201/fc.25942158e.2022.1.398 [Link]2. Santana, E. M., Schiesari, L.C., Gomes, F.R., Martins, M.R.C. 2021. Morphophysiological traits of an amphibian exposed to historical industrial pollution in a Brazilian biodiversity hotspot. <i>Amphibia-Reptilia</i>, 1-13. DOI: 10.1163/15685381-bja10050. [Link]1. Santana, E. M., Machado, G., Kasumovic, M. 2020. Pre-maturation social experience affects female reproductive strategies and offspring quality in a highly polyandrous insect. <i>Behavioral Ecology and Sociobiology</i>. 74: 135. DOI: 10.1007/s00265-020-02917-x. [Link]	
BOOK CHAPTERS AND REPORTS	<ol style="list-style-type: none">5. Santana, E. M. Semen Transfer in Amphibians. 2023. In: Shackelford, T.K. (eds) <i>Encyclopedia of Sexual Psychology and Behavior</i>. Springer, Cham.4. Muniz, D., Giacobelli, L., Maia, K. P., Gaiarsa, M. P., Assis, A. P. A., Santana, P., Santana, E. M., Birskis-Barros, I., Medeiros, L. P., Velásquez, V. M., Burin, G., Marquitti, F. M. D., Côrtes, M. C., Dáttilo, W., Cantor, M., Lemos-Costa, P., Raimundo, R. L. G., Andreazzi, C., Pires, M. M., Guimarães Jr., P. R. 2020. Vulnerabilidade das microrregiões do Estado de São Paulo à pandemia do novo coronavírus (SARS-CoV-2). <i>SciELO Preprints</i>. [Link]3. Gaiarsa, M. P., Marquitti, F. M. D., Lemos-Costa, P., Burin, G., Medeiros, L. P., Velásquez, V. M., Santana, P., Santana, E. M., Maia, K. P., Muniz, D. G., Giacobelli, L., Assis, A. P. A., Birskis-Barros, I., Cantor, M., Emer, C., Andreazzi, C., Pires, M. M., Côrtes, M. C., Melo, D., Dáttilo, W., Raimundo, R. L. G., Guimarães Jr., P. R. 2020. Structural vulnerability of hospitals, cemeteries, and crematoriums of the city of São Paulo to COVID-19. <i>SciELO Preprints</i>. [Link]	

2. Emer, C., Maia, K. P., Santana, P., **Santana, E. M.**, Muniz, D. G., Giacobelli, L., Assis, A. P. A., Burin, G., Cantor, M., Lemos-Costa, P., Velásquez, V. M., Birskis-Barros, I., Gaiarsa, M. P., Medeiros, L. P., Marquitti, F. M. D., Côrtes, M. C., Dáttilo, W., Andreazzi, C. S., Pires, M. M., Melo, D., Migon, E. X. F. G., Raimundo, R. L. G., Guimarães Jr., P. R. **2020**. Vulnerability of the micro-regions of the South of Brazil to the new coronavirus (SARS-CoV-2) pandemic. *SciELO Preprints*. [[Link](#)]
1. Maia, K. P., Muniz, D. G., Cantor, M., Lemos-Costa, P., Velásquez, V. M., Giacobelli, L., Birskis-Barros, I., **Santana, E. M.**, Gaiarsa, M. P., Santana, P., Assis, A. P., Medeiros, L. P., Marquitti, F. M. D., Dáttilo, W., Andreazzi, C. S., Pires, M. M., Guimarães Jr., P. R., Migon, E. X. F. G., Raimundo, R. L. G. **2020**. Vulnerability of micro-regions within Northeast Brazil to the new coronavirus (SARS-CoV-2) pandemic. *SciELO Preprints*. [[Link](#)]

SERVICE

Member of the *Proceedings B* Preprint Editorial Team

Reviewer for Behavioural Processes (2023), Ecological Complexity (2022), Oecologia Australis (2022) and Hydrobiologia (2021).

Grant reviewer for Animal Behavior Society (ABS) - ABS Student Research Grant 2022 and ABS Student Research & Developing Nations Grants 2023.

PROFESSIONAL EXPERIENCE

Evaluation boards

- 2022. Masters' Degree Evaluation Committee, University of São Paulo (USP), São Paulo, SP, Brazil.
- 2022. Evaluation Committee of the Final Monography required to Graduate Conclusion, Federal University of São Carlos (UFSCar), São Carlos, SP, Brazil.
- 2021. Masters' Degree Qualifying Exam Committee, Federal University of São Paulo (UNIFESP), Diadema, SP, Brazil.
- 2019. PhD Degree Qualifying Exam Committee, University of São Paulo (USP), São Paulo, SP, Brazil.

Teaching experience

- 2023. Short Course "Sexual Selection", VII Congresso Latinoamericano de Aracnologia (CLA) (Online).
- 2021. Short Course "Sexual Selection", Biology Theme Week, University of São Paulo São Paulo, SP, Brazil.
- 2020. Collaborating teacher, *Statistic Models in Ecology and Resource Management*; course of the Postgraduate Program in Ecology of University of São Paulo (USP), São Paulo, SP, Brazil. Invited by [Prof. Dr. Paulo Inácio Prado](#).
- 2019. Collaborating teacher, *Behavioural Ecology* (grad and undergraduate level). *4rd EcoEscola: Theoretical-practical course of research in ecology*, Biosciences Institute, University of São Paulo (USP), São Paulo, SP, Brazil;
- 2017. Mentoring of undergraduate students' research project. *3rd EcoEscola: Theoretical-practical course of research in ecology*, Biosciences Institute, University of São Paulo (USP), São Paulo, SP, Brazil;
- 2016. Teaching assistant, *Ecology* (undergraduate level). Biosciences Institute, University of São Paulo (USP), São Paulo, SP, Brazil;
- 2015. Mentoring of undergraduate students' research project. *2nd EcoEscola: Theoretical-practical course of research in ecology*, Biosciences Institute, University of São Paulo (USP), São Paulo, SP, Brazil;
- 2012. Teaching assistant, *Fauna, Flora and Environment* (undergraduate level). Biosciences Institute, University of São Paulo (USP), São Paulo, SP, Brazil.

Science outreach

- Instagram content producer of *Voyeur de Animais Coloridos*, a science outreach initiative focused on animal behavior and sexual selection [Portuguese]. [[Link](#)]
- Author of *SexNews*, a science outreach blog about sexual selection research [Portuguese]. [[Link](#)]
- Editorial board member at *HerpetoCapixaba*, a research project focused in herpetological natural history and conservation [Portuguese]. [[Link](#)]

ORGANIZATIONAL WORK

- 2014-2015. 2nd EcoEscola: Theoretical-practical course of research in ecology, Biosciences Institute, University of São Paulo, São Paulo, SP, Brazil;
- 2012-2013. Department of Ecology Seminars (EcoEncontros). Biosciences Institute, University of São Paulo, São Paulo, SP, Brazil.

CONFERENCE ATTENDANCE

- 2022. Animal Behavior Meeting. **Judge** at the ABS2022 Founders Poster Award Competition.
- 2021. **Talk**, Animal Behavior Live: Annual Online Conference (ABL 2021). ([Online](#))
- 2021. Virtual Animal Behavior Meeting. **Judge** at the ABS2021 Founders Poster Award Competition.
- 2021. Virtual Evolution Conference. Attendee.
- 2018. **Talk**, International Society for Behavioral Ecology Meeting (ISBE 2018), Minneapolis, MN, USA.
- 2015. **Poster**. Evolution Meeting, Guarujá, SP, Brazil.
- 2009. **Poster**. IV Brazilian Congress of Herpetology, Pirenópolis, GO, Brazil.
- 2007. **Poster**. XX Brazilian Meeting of Malacology, Rio de Janeiro, RJ, Brazil.
- 2007. **Talk**. Fishery Institute Meeting, São Paulo, SP, Brazil.

INVITED TALKS

- 2023. Anual Inaugural Lecture of the Pos-Graduate Program in Biodiversity and Conservation, Federal University of Piauí (UFPI), PI, Brazil ([Online](#));
- 2022. QBIO PROGRAM - Community Ecology and Biodiversity - Serrapilheira/ICTP-SAIIR - Training Program in Quantitative Biology and Ecology, São Paulo, SP, Brazil;
- 2022. XXXIII Week of Biological Studies, São Paulo State University (UNESP), Rio Claro, SP, Brazil.
- 2022 VII Biology Week, Federal Institute of Education Science and Technology of São Paulo (IFSP), São Roque Campus, SP, Brazil.
- 2021. Biotalks, Federal Institute of Education Science and Technology of Goiás (IFGO), GO, Brazil ([Online](#))
- 2021. VI Biology week, Federal Institute of Education Science and Technology of São Paulo (IFSP), São Roque Campus, SP, Brazil (virtual).
- 2021. Lecture in the discipline “Vertebrate anatomy”, São Paulo State University (UNESP), Botucatu, SP, Brazil (virtual).
- 2020. XIV Biology week, Federal University of São Carlos (UFSCar), Sorocaba, SP, Brazil ([Online](#)).
- 2020. Intervals Project: “I didn’t know that one”, COC Novo Mundo School (elementary and high school), Santos, SP, Brazil ([Online](#)).
- 2019. 10th Academic Journey of Biological Science, Metodista University of São Paulo, São Bernardo do Campo, SP, Brazil.
- 2019. X Scientific and Cultural Week, Federal University of São Paulo (UNIFESP), Diadema Campus, SP, Brazil.
- 2019. XV Winter Course: Topics in Animal Physiology, Biosciences Institute, University of São Paulo, São Paulo (USP), SP, Brazil.
- 2019. VIII Biology Week, ABC Federal University (UFABC), Santo André, SP, Brazil.
- 2019. Science Outreach Workshop: different formats for a more effective communication, University of São Paulo (USP), São Paulo, SP, Brazil.
- 2018. Department of Ecology Seminars (EcoEncontros), University of São Paulo (USP), São Paulo, SP, Brazil.
- 2017. Centre for Evolutionary Biology Meeting, University of Western Australia (UWA), Perth, WA, Australia.
- 2017. 3rd EcoEscola: Theoretical-practical course of research in ecology, University of São Paulo (USP), São Paulo, SP, Brazil.
- 2015. 2nd EcoEscola: Theoretical-practical course of research in ecology, University of São Paulo (USP), São Paulo, SP, Brazil.
- 2013. Department of Ecology Seminars (EcoEncontros), University of São Paulo (USP), São Paulo, SP, Brazil.

FIELD EXPEDITIONS

- 2014. Atlantic Forest of Southeastern Brazil. Participated in a seven days field trip to collect herpetofaunal specimens trapped in pitfall-traps at Sete Barras City, Southeast of Brazil, including processing animals in the field;
- 2013. Beaches of Southeastern Brazilian Coast. Participated in a twelve days field trip to collect *Labidura xanthopus* (Insecta: Dermaptera) specimens along several beaches of Southeast of Brazil;
- 2011-2013. Atlantic Forest of Southeastern Brazil. Organized and participated of field trips to collect specimens of *Cycloramphus dubius* and *Rhinella ornata* (Amphibia, Anura), samples used in my Masters of Science research. Collection and cardiac puncture of specimens in field, in the cities of Cubatão, Santos and Bertioga, Southeast of Brazil;
- 2011. Atlantic Forest of Southeastern Brazil. Participated in field trips to collect data on habitat use of reptiles and amphibians in Ubatuba City, Southeast of Brazil;
- 2007-2008. Atlantic Forest of Southeastern Brazil. Organized and participated of field trips to collect anuran specimens to produce a species list of an urban fragment of Atlantic Forest, data collected for my undergrad research project, Guarujá City, Southeast of Brazil.

MAIN
PROFESSIONAL
CURSES

- 2023. Online Course on Scientific Outreach in Social Networks, Hugo Fernandes via Hotmart (Online);
- 2022. Writing in the Sciences. Online course offered by Stanford University (Stanford, CA, USA) through Coursera;
- 2020. Virtual brief course of Science outreach. Offered by Federal University of Goiás (UFG), Goiás, GO, Brazil;
- 2019. Joint ICTP-SAIFR/ICTP-Trieste School on Mathematical Models of Evolution. International Centre for Theoretical Physics, São Paulo, SP, Brazil;
- 2019. VIII Southern-Summer School on Mathematical Biology. International Centre for Theoretical Physics, São Paulo, SP, Brazil;
- 2017. Teaching, learning and how to develop Massive Open Online Courses (MOOCs) - Prof. Barbara Oakley (Oakland University), University of São Paulo, Brazil;
- 2017. Meta-analysis in Ecology and Evolution. Biosciences Institute, University of São Paulo, São Paulo, SP, Brazil;
- 2015. Phylogenetic Comparative Methods in R. Ilhabela, SP, Brazil. Offered by University of Massachusetts Boston, UMass Boston, USA;
- 2014. Statistical Modelling to Ecology and Natural Resources. Biosciences Institute, University of São Paulo, São Paulo, SP, Brazil;
- 2011. Written Production in English. University of São Paulo, São Paulo, SP, Brazil.

LANGUAGES

Portuguese (native), English (proficient), Spanish (intermediate)

OTHER
SKILLS

- Animal handling and sampling (vertebrate and invertebrate specimens);
- Laboratory experiments with animals;
- Programming in R language;
- Extensive literature search skills (e.g. Web Of Science, Google);
- Compile and manage datasets with multiple data fields;
- Ease speaking and teamwork.