

CURRICULUM VITAE

GUSTAVO SILVA DE MIRANDA, PH.D.

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SUMMARY

I am an early career evolutionary biologist, currently employed as a Global Genome Initiative Postdoctoral Fellow (GGI), at the Smithsonian Institution, in the USA. I have an **extensive teaching and mentoring experience** in higher education, lecturing and supervising undergraduate and graduate students in Brazil, Denmark, Peru, and the USA. My **student-centered approach** is based on different active learning strategies (e.g., flipped classroom, student lead small group sessions) and aims to motivate students to be active participants of the learning and discovery process. I am also committed to **educational innovation** and didactic skills development, integrating, and communicating new developments with the department, as evidenced by my teacher-scholar track. My research integrates **systematics, biogeography, phylogeography, ecology and genomics** to understand the diversity and evolution of terrestrial organisms, especially of non-model organisms. To achieve these aims, I perform a combination of **field-based and wet-lab** work coupled with bioinformatics to unravel evolutionary patterns and ecological processes of animals across the world. My strengths rely on the broad scope of my work, good understanding of evolutionary and ecological theory and my technical abilities to analyze large and complicated datasets. The impact of my research can also be seen through my collaboration with researchers from more than 10 countries and multiple research groups.

EDUCATION

- 2014–2017 **Ph.D. (Biodiversity)**, Center for Macroecology, Evolution and Climate (CMEC), University of Copenhagen, Denmark
Advisor: Nikolaj Scharff
- 2011–2013 **M.Sc. (Zoology)**, Federal University of Rio de Janeiro (UFRJ), Brazil
Advisor: Adriano B. Kury
- 2007–2011 **B.Sc. (Biology)**, Federal University of the State of Rio de Janeiro, Brazil
Advisor: Maria Inês da Silva dos Passos

PROFESSIONAL APPOINTMENTS

- 2019–present **Postdoctoral Research Biologist (Global Genome Initiative)**, National Museum of Natural History, Smithsonian Institution, USA. Supervisor: Hannah Wood.
- 2019 First child born (02/10/2019).

- 2017–2019 **Postdoctoral Research Biologist (Peter Buck)**, National Museum of Natural History, Smithsonian Institution, USA. Supervisor: Hannah Wood.
- 2017 Three months in-between appointments (03/2017 to 05/2017).
- 2014–2017 **Full time education**, during these years I obtained a M.Sc. degree in Zoology (Brazil) and a Ph.D. degree in Biodiversity (Denmark).
- 2012–2013 **Environmental Consulting**, Work Plan of the Monitoring Program of the Biota and Limnology, Expansion of the "Terminal Cabiunas" (TECAB), Petrobras, Brazil.

TEACHING EXPERIENCE

- 2021 Lecturer undergraduate course **Invertebrate Zoology**, Federal University of Rio de Janeiro, Brazil (*virtual*; one class; 20 students).
- 2020 Lecturer undergraduate seminar **Careers in Biology**, Faculdade Sao Lucas, Rondônia, Brazil (*virtual*; one class; ~150 students).
- 2020 Lecturer elementary students **Entomology**, Maple Bear, Londrina, Brazil (*virtual*; one class; 25 students).
- 2019 Lecturer high schoolers, **Exploring Entomology After School Program**, Smithsonian Institution, USA. Used a [novel model](#) developed by UC Berkley to show how the process of science works (one class; 10 students).
- 2018 Lecturer undergraduate **Diversity, ecology and evolution of whip spiders**, Washington and Lee University, Virginia, USA. Students' evaluation [here](#) (one class; ~30 students).
- 2014–2016 Lecturer at the Biology undergraduate course in **Entomology and Terrestrial zoology**; University of Copenhagen, Denmark. Involved one-week field work and in class lectures about ecology, conservation, systematics, and evolution of terrestrial fauna (3 classes each year; ~180 students total).
- 2011–2013 Lecturer at the Biology undergraduate course **Arthropods**; Federal University of the State of Rio de Janeiro, Brazil. Involved lab and in class lectures about ecology, systematics, and evolution of Cheliceriformes (2 class each year; ~90 students total)
- 2008–2011 Zoology Tutor, provided lab lectures and administered exams on **Morphology, Ecology and Evolution of Insects, Arachnids, Crustaceans and Myriapods**; Federal University of the State of Rio de Janeiro, Brazil (semester-long classes; ~250 students total).

MENTORING EXPERIENCE

- 2020–present Master's student Joao Frederico Berner: *Species distribution modelling and conservation of the amblypygid genus Heterophrynus*. Federal University of Mato Grosso do Sul, Brazil. Co-supervision.
- 2019–2020 Master's student Jéssica Tagliatela: *Reassessing the phylogeny of Amblypygi*. Federal University of São Carlos, Brazil. Co-supervision.
- 2018–2020 Master's student Vanessa Vidal: *Behavioural studies on two species of the genus Charinus (Amblypygi)*. Emilio Goeldi Museum, Federal University of Pará, Brazil. Co-supervision. **Paper #30**.

- 2018–2019 Undergraduate student Andrea Palomino Cardenas: *Molecular characterization of the Amblypygi (Arachnida) and new records to the Cusco Department, Peru*. National University of San Antonio Abad del Cusco, Peru. Co-supervision.
- 2018–2019 Undergraduate student Rowan French: *Microendemics of Madagascar: diversity, systematics and phylogeography of Malagasy Schizomida using Ultraconserved Elements (UCEs)*. Summer internship at the Smithsonian Institution; student from University of Alberta, Canada. Supervision.
- 2018–2018 Undergraduate student Gabriel Seraphim: *On the thelyphonid genus Typopeltis Pocock, 1894: description of a new species and redescription of T. guangxiensis (Thelyphonida, Thelyphonoidea, Thelyphonidae)*. Federal University of the State of Rio de Janeiro, Brazil. Co-supervision. **Paper #24**.
- 2014–2015 Undergraduate student Kristian Greisen: *Description of new genus and species of Schizomida from the Eastern Arc Mountains, Tanzania*. University of Copenhagen, Denmark. Co-supervision.

PUBLICATIONS

Summary: 13 first authored, 17 co-authored, h-index: 11

† denotes corresponding authorship | * denotes student authorship

30. *Vidal V., Carvalho-Filho F. S., †**Miranda G.S.** (*accepted pending minor revisions*) Reproduction, embryonic development, and post-embryonic growth of the Amazonian whip spider species *Charinus guto* Giupponi & Miranda, 2016 (Amblypygi: Charinidae). *Journal of Natural History*.
29. †**Miranda G.S.**, Giupponi A.P.L., Prendini L., Scharff N. (*in press*) Systematic revision of the pantropical whip spider family Charinidae Quintero, 1986 (Arachnida, Amblypygi). *European Journal of Taxonomy*.
28. †**Miranda G.S.**, Giupponi A.P.L., Scharff N. & Prendini L. (*in press*) Phylogeny and biogeography of the world-wide family Charinidae (Arachnida, Amblypygi). *Zoological Journal of the Linnean Society*. doi: 10.1093/zoolinlean/zlaa101
27. Colla A., Legittimo C.M., Castellucci F., Simeon E., **Miranda G.S.** (2020) First record of Amblypygi from Italy: *Charinus ioanniticus* (Amblypygi, Charinidae). *Arachnology* 18 (6): 642–648. doi: 10.13156/arac.2020.18.6.642
26. Shakhathreh M., **Miranda G.S.**, Bader-Katbeh A., Baker M.A.A., Amr Z.S. (2020) *Charinus ioanniticus* (Amblypygi: Charinidae), first record of a whip spider from Jordan. *Arachnology Letters* 59 (1): 35–37. doi: 10.30963/aramit5906
25. *Agapakis G. & **Miranda G.S.** (2019) First records of *Charinus ioanniticus* (Arachnida, Amblypygi: Charinidae) from continental Europe. *Arachnology Letters*, 58: 13–15. doi: 10.30963/aramit5805
24. *Seraphim G., Giupponi A.P.L. & **Miranda G.S.** (2019) Taxonomy of the thelyphonid genus *Typopeltis* Pocock, 1894 with proposal of homology of the male gonopod structures

- (Arachnida, Thelyphonida, Typopeltinae). *Zookeys*, 848: 21–39. doi: 10.3897/zookeys.848.32263
23. †**Miranda G.S.** & Reboleira A.S. (2019) Amblypygids of Timor-Leste: first records of the order from the country with description of a remarkable new species of *Sarax* (Arachnida, Amblypygi, Charinidae). *Zookeys*, 820: 1–12. doi: 10.3897/zookeys.820.30139
 22. Pedroso D.R., **Miranda, G.S.** & Baptista, R.C. (2019) Further advancements in the taxonomy of *Trechona* spiders (Araneae: Dipluridae): two new species, redescription of *Trechona uniformis* Mello-Leitão, 1935, additions to descriptions of *Trechona rufa* Vellard, 1924 and *Trechona venosa* (Latreille, 1832) and key to the species. *Austral Entomology*, 58(1): 204–219. doi: 10.1111/aen.12364
 21. †**Miranda G.S.**, Kury A.B. & Giupponi A.P.L. (2018) Review of *Trichodamon* Mello-Leitão 1935 and phylogenetic placement of the genus in Phrynichidae (Arachnida, Amblypygi). *Zoologischer Anzeiger*, 273: 33–55. doi: 10.1016/j.jcz.2018.02.006
 20. †**Miranda G. S.** & Zamani A. (2018) Filling the gap of whip spider distribution in Asia: *Phrynichus persicus* sp.n. (Arachnida, Amblypygi), a new Phrynichidae from Iran. *Zootaxa*, 4413: 339–350. doi 10.11646/zootaxa.4413.2.6
 19. †**Miranda G.S.**, Giupponi A.P.L., Prendini L. & Scharff N. (2018) *Weygoldtia*, a new genus of Charinidae (Arachnida, Amblypygi) with a reappraisal of the genera in the family. *Zoologischer Anzeiger*, 273: 23–32. doi: 10.1016/j.jcz.2018.02.003
 18. McArthur I.W., **Miranda G.S.**, Seiter M. & Chapin K.J. (2018) Global patterns of sexual dimorphism in Amblypygi. *Zoologischer Anzeiger*, 273: 56–64. doi: 10.1016/j.jcz.2018.02.005
 17. †**Miranda G.S.** & Giupponi A.P.L. (2017) Notes on one species of Palpigradi (Arachnida). *Arachnida - Rivista Aracnologica Italiana*, Anno III, XIII: 45–48.
 16. †**Miranda G.S.**, Milleri-Pinto M., Gonçalves-Souza T., Giupponi A.P.L. & Scharff N. (2016) A new species of *Charinus* Simon, 1892 (Amblypygi, Charinidae) from Brazil, with notes on behavior. *ZooKeys*, 621: 15–36. doi: 10.3897/zookeys.621.9980
 15. †**Miranda G.S.**, Aharon S., Gavish-Regev E., Giupponi A.P.L. & Wizen G. (2016) New species of *Charinus* Simon, 1892 (Arachnida: Amblypygi: Charinidae) from Israel and new records of *C. ioanniticus* (Kritscher, 1959). *European Journal of Taxonomy*, 234: 1–17. doi: 10.5852/ejt.2016.234
 14. †**Miranda G.S.**, Giupponi A.P.L. & Wizen G. (2016) Two new species of whip spider (Amblypygi): an epigean and a cave dwelling *Charinus* Simon, 1892 from Belize. *Zootaxa*, 4098: 545–559. doi: 10.11646/zootaxa.4098.3.7
 13. Giupponi A.P.L., **Miranda G.S.** & Villarreal O.M. (2016) *Rowlandius dumitrescoae* species group (Schizomida: Hubbardiidae): new diagnosis, key and description of new cave-dwelling species from Brazil. *ZooKeys*, 632: 13–34. doi: 10.3897/zookeys.632.9337
 12. Villarreal O.M., **Miranda G.S.** & Giupponi A.P.L. (2016) New Proposal of Setal Homology in Schizomida and Revision of *Surazomus* (Hubbardiidae) from Ecuador. *PLoS ONE*, 11: e0147012. doi: 10.1371/journal.pone.0147012

11. Giupponi A.P.L. & **Miranda G.S.** (2016) Eight New Species of *Charinus* Simon, 1892 (Arachnida: Amblypygi: Charinidae) Endemic for the Brazilian Amazon, with Notes on Their Conservational Status. *PloS ONE*, 11: e0148277. doi: 10.1371/journal.pone.0148277
10. Passos M.I.S., **Miranda G.S.** & Nessimian, J.L. (2015) Three new species of *Macrelmis* Motschulsky (Coleoptera: Elmidae: Elminae) from Southeastern Brazil with new definition of species groups to the genus. *Zootaxa*, 4058: 195–210. doi: 10.11646/zootaxa.4058.2.3
9. Lourinho Dallavecchia D., Pedroso Ferraz A.C., **Miranda G.S.**, Sousa Da Silva A. & Magalhães-De-Aguiar, V. (2015) Comparative Study Between Chicken Gizzards and Beef as Diets and its Influences on the Post-Embryonic Development and Longevity of *Chrysomya megacephala* (Fabricius) (Diptera: Calliphoridae). *EntomoBrasilis* (Vassouras), 8: 17–23. doi: 10.12741/ebrazilis.v8i1.454
8. Da-Silva E. R., Coelho L.B.N., Santos E.L.S., Campos T.R.M., **Miranda G.S.**, Araujo T. C. & Carelli, A. (2014) Marvel and DC characters inspired by insects. *Acme International Journal of Multidisciplinary Research*, 4: 10–36.
7. Da-Silva E. R., Coelho L.B.N., Campos T. R. M., Carelli A., **Miranda G.S.**, Santos E.L.S. & Passos M.I.S. (2014) Marvel and DC Characters Inspired by Arachnids. *Comics Grid: Journal of Comics Scholarship*, 4: 1–14. doi: 10.5334/cg.aw
6. Da-Silva E. R., Coelho L.B.N., Campos T.R.M., **Miranda G.S.**, Baffa A.F. & da Silveira T.C. (2014) Marvel and DC characters inspired by crustaceans. *Acme International Journal of Multidisciplinary Research*, 2: 1–12.
5. Senna A.R., Figueiró R., Andrade L.F., Sardella C.J.R., Guedes-Silva E., Souza-Filho J.F., **Miranda G.S.**, Oliveira G.R., Ferreira R.L. & Docile T.N. (2013) A importância e os desafios para o conhecimento e a catalogação da biodiversidade no Brasil. *Acta Scientiae & Technicae*, 1(1): 53–86. doi: 10.17648/uezo-ast-v1i1.8
4. †**Miranda G.S.** & Dias P.H.S. (2012) Biogeografia de vicariância: histórico e perspectivas da disciplina que lançou um novo olhar sobre a diversidade na Terra. *Filosofia e História da Biologia*, 7(2): 215–240.
3. †**Miranda G.S.**, Sampaio B.H.L. & Passos, M.I.S. (2012) Two new species of *Austrolimnius* Carter & Zeck (Insecta: Coleoptera: Elmidae) from Southeastern Brazil. *Zootaxa*, 3389: 14–24. doi: 10.11646/zootaxa.3389.1.2
2. Giupponi A.P.L. & **Miranda G.S.** (2012) A new species of *Sarax* Simon, 1892 from the Philippines (Arachnida: Amblypygi: Charinidae). *Anais da Academia Brasileira de Ciências*, 84(1): 165–173. doi: 10.1590/S0001-37652012000100017
1. †**Miranda G.S.** & Giupponi A.P.L. (2011) A new synanthropic species of *Charinus* Simon, 1892 from Brazilian Amazonia and notes on the genus (Arachnida: Amblypygi: Charinidae). *Zootaxa*, 2980: 61–68. doi: 10.11646/zootaxa.2980.1.5

MANUSCRIPTS IN PREPARATION

4. Galvão G., Provete D.B., **Miranda G.S.**, Gonçalves-Souza T., Body size and shape of whip-spiders evolved in early burst. Journal intended: *Proceedings of the Royal Society B: Biological Sciences*.

3. **Miranda G.S.**, Wood H. Phylogeny, population genomics and biogeography of the Atlantic Forest amblypygids. Journal intended: *Molecular Phylogenetics and Evolution*.
2. **Miranda G.S.**, Kallal R., Giupponi A.P.L., Wood H. The repugnatory gland of Schizomida. Journal intended: *Journal of Morphology*.
1. *French R., **Miranda G.S.**, Wood H. Phylogenomics and biogeography of the Madagascan Schizomida. Journal intended: *Journal of Biogeography*.

BOOK CHAPTER

1. Giupponi A.P.L., Demite P.R., Flechtmann C.H.W., Hernandez F.A., Mendes A.C., Migliorini G.H., **Miranda G.S.** & Souza T.G. (2017) *Aracnídeos da Mata Atlântica* [Atlantic Forest Arachnids]. Revisões em Zoologia: Mata Atlântica. 1ed. Curitiba: Editora UFPR, 1–527.

BOOK EDITOR

- In prep.* Beneti J., Dias P.H.S & **Miranda G.S.**, Montesinos R. *Sistemática filogenética* [Phylogenetic Systematics]. Ed. Anolis Books. (in Portuguese)

FELLOWSHIPS, GRANTS AND AWARDS

FELLOWSHIPS

Grand total: US\$ 298.787,95

- 2019–present Global Genome Initiative Buck Postdoctoral Fellowship, National Museum of Natural History, Smithsonian Institution, USA. **Principal Investigator**. US\$ 100.800 + US\$ 8.000 research allowance + US\$ 8.000 health care allowance.
- 2017–2019 Peter Buck Postdoctoral Fellowship, National Museum of Natural History, Smithsonian Institution, USA. **Principal Investigator**. US\$ 100.800 + US\$ 8.000 research allowance.
- 2014–2017 Brazilian Federal Agency for the Support and Evaluation of Graduate Education (CAPES), Brazil. Ph.D. Scholarship at the University of Copenhagen, Denmark. **Principal Investigator**. €52.800 + taxes + fees.
- 2011–2013 National Council for Scientific and Technological Development (CNPq), Brazil. Masters Scholarship at the Federal University of Rio de Janeiro, Brazil **Principal Investigator**. US\$ 8.640.

GRANTS

Grand total: > US\$ 31.235,91

- 2020 SYNTHESYS Denmark Taxonomic Access Facility, European Union-funded Integrated Activities grant: funds for travel and for subsistence for one week while conducting research at the Zoological Museum of Copenhagen, Denmark. **Principal Investigator**. Grant covered all expenses.
- 2018 Global Genome Initiative Peer Award, National Museum of Natural History, Smithsonian Institution, USA. **Principal Investigator**, supervised undergraduate student as co-PI. US\$ 9.286,91.

- 2018 Global Genome Initiative, Rolling Award, National Museum of Natural History, Smithsonian Institution, USA. **Principal Investigator**. US\$ 19.099.
- 2016 Field Museum Science Visiting Scholarships, The Field Museum, USA. **Principal Investigator**. US\$ 1.650.
- 2014–2015 SYNTHESYS Germany and France Taxonomic Access Facilities, European Union-funded Integrated Activities grant: funds for travel and for subsistence during one week while conducting research at the Stuttgart State Museum of Natural History, Germany and National Museum of Natural History, France. **Principal Investigator**. Grant covered all expenses.
- 2014–2015 ForBio grant, Research School in Biosystematics, Norway: funds for course fee, travel and for subsistence during one week while attending course on Phylogenetics, Subarctic terrestrial field course at Kevo (Finland) and Geometric Morphometrics. **Principal Investigator**. Grant covered all expenses.
- 2014 Collection Study Grant, American Museum of Natural History. **Principal Investigator**. US\$ 1.200.

AWARDS

- 2014 Second Best Student Poster, 28th European Congress of Arachnology (€50).
- 2013 Honorable Mention by the thesis seminar presented to the Graduate Program in Zoology of the National Museum/UFRJ, Brazil.

ACADEMIC SERVICES

PH.D. JURI

- 2021 Opponent of doctoral dissertation entitled *Taxonomic revision and cladistic analysis of Leiosteninae (Opiliones: Agoristenidae)*. Andrés Garcia, National Museum, Federal University of Rio de Janeiro, Brazil.
- 2019 Opponent of doctoral dissertation entitled *From fine to macro-scale: evaluating environmental drivers effects upon multiple biodiversity facets of harvestmen*. Tiago N. Bernabé, 'Paulista' State University São José do Rio Preto, Brazil.
- 2018 Opponent of doctoral dissertation entitled *Systematic review of the subfamily Phryninae (Arachnida, Amblypygi)*. Daniel Chirivi Joya, University of Sao Paulo, Brazil.

MASTERS JURI

- 2021 Opponent of master's dissertation entitled *Reassessing the phylogeny of Amblypygi*. Jessica Tagliatela. Federal University of São Carlos, Brazil

MASTERS PROGRESS EVALUATION

- 2021 **Evaluation committee** of master's student Iara Siqueira Santos Silva; thesis title *Schizomida systematics and taxonomy (Arachnida: Pedipalpi): assessing the role of male genitalia*; Federal University of Piauí, Brazil.

EXAMINATION COMMITTEE

- 2019 **Review committee** for selection of a new Global Genome Initiative Postdoctoral Fellow, Smithsonian Institution, USA.

CONSULTANCY

2021 **Consultant on Extinction Risk Assessment of Brazilian Arachnids**, Ministry of Environment (ICMBio), Brazil.

JOURNAL EDITOR

Journal Check List: *Subject Editor of Arachnida*, 10 manuscripts handled; previous *Media Editor* (responsible for periodic posts on Twitter - @cklistjournal - and Facebook - @checklistjournal).

JOURNAL REVIEW

Acta Amazonica (1), *Biological Journal of the Linnean Society* (1), *Caldasia* (1), *Check List* (1), *Ecology and Evolution* (1), *Invertebrate Systematics* (1), *Journal of Arachnology* (5), *Molecular Phylogenetics and Evolution* (2), *PeerJ* (1), *Revista de la Facultad de Ciencias* (1), *Revista de la Sociedad Entomológica Argentina* (1), *Systematics and Biodiversity* (1), *ZooKeys* (1), *Zoologia* (1), *Zoologischer Anzeiger* (1), *Zootaxa* (13). More details at [Publons](#).

REVIEWER BOARD MEMBER

2020–present *Diversity*, MDPI

BOOK CHAPTER REVIEW

2015 "*História e Conceitos em Biogeografia*" [History and concepts in Biogeography] *In: Book III Curso de Verão em Zoologia do Instituto de Biociências da Universidade de São Paulo (USP)*, Brazil.

CONFERENCE, SEMINARS AND SYMPOSIA ORGANIZATION

- 2021 *4th International Conference on Biodiversity Biobanking* (virtual), Global Genome Biodiversity Network meeting, Shenzhen, China.
- 2021 *Symposium on Operating a Biobank During a Pandemic* (virtual), Global Genome Biodiversity Network, Washington DC, USA.
- 2020–2021 *National Museum of Natural History's Entomology Seminar* (virtual), Smithsonian, USA ([click here for more details](#)).
- 2011 *3rd Zoology Week*, Federal University of the State of Rio de Janeiro, Brazil
- 2011 *Entomology Symposium*, National Museum, Federal University of Rio de Janeiro, Brazil.

ACTIVITIES IN INCLUSION, DIVERSITY, EQUITY, AND ACCESS

- 2021 Member of the *Committee on Diversity, Antiracism, and Belonging*, National Museum of Natural History, Smithsonian, USA
- 2019 Discussion group for the launch of the *Staircase of Academic Opportunity and Inclusivity* within the National Museum of Natural History, Smithsonian, USA.
- 2005 One-week boat trip visiting riverside and indigenous communities in the Brazilian Amazon delivering information to improve health literacy.

ORAL PRESENTATION

- 2020 *Phylogeny and biogeography of neotropical amblypygids: advances and perspectives. Invited speaker*, VI Latin-American Congress of Arachnology (virtual), Argentina. ([Video in English](#))
- 2020 *Population genetics and biogeography of montane Atlantic Forest amblypygids* AAS 2020 Virtual Summer Symposium, USA.
- 2019 *Amblypygi as models in biogeography. Invited speaker*, Exploring Entomology After School Program, NMNH, Smithsonian Institution, USA.
- 2019 *Biodiversity discovery and conservation of arachnids. Invited speaker*, NHRE interns, NMNH, Smithsonian Institution, USA.
- 2019 *Effects of climate change and forest fragmentation in whip spider distribution and diversity. Invited speaker*, Lightning talks, NMNH, Smithsonian Institution, USA.
- 2019 *Advances on Amblypygi research: past, present, and future directions. 21st International Congress of Arachnology*, Christchurch, New Zealand.
- 2018 *Amblypygids as model organisms in biogeography. Annual Meeting of the American Arachnological Society*, Ypsilanti, Michigan, USA.
- 2017 *Whip spider diversity, phylogeny and biogeography: the past, present and future of Amblypygi research in the genomic era. Entomology Seminar*, National Museum of Natural History, USA.
- 2016 *Evolution, diversity, and conservation of whip spiders. Invited speaker*, Danish natural History Society, Copenhagen, Denmark.
- 2016 *Phylogeny and biogeography of Charinidae Quintero, 1986 (Arachnida, Amblypygi) based on morphological and molecular data. 20th International Congress of Arachnology*, Golden, USA.
- 2015 *Amblypygi na Amazônia – Descobertas e biodiversidade. Invited speaker* at the São Lucas University, Porto Velho, Rondônia, Brasil.
- 2014–2016 *Phylogeny and biogeography of Charinidae Quintero, 1986 (Arachnida, Amblypygi) based on morphological and molecular data. Ph.D. day of the Natural History Museum of Denmark.*

CONFERENCES AND SYMPOSIA ATTENDED (SELECTED)

- 2021 Evolution (virtual), USA.
- 2021 SMRT Leiden 2021 – Young Investigator Virtual Conference (virtual), Netherlands.
- 2021 Senckenberg Biodiversity Genomics Symposium (virtual), Germany.
- 2021 PacBio Virtual Seminar at California Academy of Sciences (virtual), USA.
- 2020 VI Latin-American Congress of Arachnology (virtual), Argentina.
- 2020 American Arachnology Society Virtual Summer Symposium, USA.

2019 21st International Congress of Arachnology, New Zealand.

OUTREACH

- 2020 Virtual talk to Amazon Arthropod Study Group, Museu Paraense Emilio Goeldi, Para, Brazil ([Video in Portuguese](#)).
- 2020 News article featuring paper #27 in *Arachnology*: [Telefriuli](#) (video in Italian).
- 2019 News article featuring paper #23 in *ZooKeys*: [National Geographic](#), [Conexão Lusófona](#), [JN Direto](#), [Portugal in News](#) (all in Portuguese).
- 2016 News article featuring paper #11 in *PLoSOne*: [Newsweek](#), [CSMonitor](#), [Correiobraziliense](#) (Portuguese), [Livescience](#), [SciShow](#) (Youtube).
- 2009–2014 Personal web blog, *Devaneios Biológicos* <<http://biodevaneios.blogspot.com.br/>> (Portuguese).

FIELD WORK EXPERIENCE

Brazil: Parque Estadual do Desengano, Santa Maria Madalena, RJ (2010); Área de Proteção Ambiental Pau Brasil, Búzios, RJ (2010); Barra de Guaratiba, RJ (2010); Parque Nacional da Serra dos Órgãos, RJ (2011, 2012); Parque Nacional da Tijuca, RJ (2011–2013); Parque Nacional da Chapada Diamantina, BA (2012); Parque Municipal do Açude da Concórdia e Santuário da Vida Silvestre da Serra da Concórdia, RJ (2013); Reserva Florestal Adolpho Ducke, AM (2015); Parque Natural de Porto Velho, RO (2015); more than 10 locations (in and outside parks) in Espírito Santo State (2018); multiple locations in the states of Bahia, Pernambuco, Alagoas, Paraíba and Rio Grande do Norte (2018). | **Finland:** Kevo (2014). | **Italy:** Torino (2014). | **Denmark:** Kristiansminde, Sorø (2014–2016). | **USA:** Calvert Cliffs State Park, MD (2017); Southern California (2019).

SKILLS

BIOINFORMATICS

Languages R, Unix.

Software Variety of tools for DNA sequence processing, alignment, and phylogenetic inference, including: Geneious, Phyluce pipeline, Trimmomatic, Velvet, Trinity, MAFFT, MUSCLE, PartitionFinder, RAxML, IQ-TREE, MrBayes, BEAST, ASTRAL, BMM, BioGeoBEARS, and others.

ECO INFORMATICS MODELING

- Maxent, Bioclim, sdm.

LABORATORY TECHNICAL EXPERTISE

- DNA extraction and amplification.
- Next-Generation DNA library preparation and targeted enrichment.

IMAGING

- BK plus Imaging System from Visionary Digital (with Canon digital camera).
- Leica stereomicroscopes and compound microscopes with a Leica DFC420 camera.
- Scanning Electron Microscope (JEOL JSM-6335F).

- CombineZP.
- Helicon Focus.
- Zerene Stacker.

OTHER SKILLS

- ArcGis, Adobe Photoshop, Adobe InDesign, Corel Draw, EndNote, Mendeley, Reference Manager (Thomson Reuters), Slack, Microsoft Office.

PROFESSIONAL SOCIETY AFFILIATIONS

- American Arachnology Society.
- European Society of Arachnology.
- International Society of Arachnology.
- Senate of Scientists, National Museum of Natural History, Smithsonian.
- Society for the Study of Evolution.

COLLECTIONS WORK AND CURATION (1 WEEK OR LONGER)

- 2017–present National Museum of Natural History, **USA**.
- 2014–2018 Zoological Museum, Natural History Museum of Denmark, **Denmark**.
- 2010–2018 National Museum, Federal University of Rio de Janeiro, **Brazil**.
- 2016 Field Museum of Natural History, **USA**; State Museum of Natural History Stuttgart, **Germany**; Center of Natural History, University of Hamburg, **Germany**; University Museum of Zoology, Cambridge, **UK**.
- 2015 Senckenberg Museum Frankfurt, **Germany**; National Museum of Natural History, **France**; São Lucas University, **Brazil**; National Institute of Amazonian Research (INPA), **Brazil**.
- 2014, 2015 American Museum of Natural History, **USA**.
- 2012 Museum of Zoology of the University of São Paulo, **Brazil**.

LANGUAGES

- **Portuguese:** native.
- **English:** fluent (speaking, writing, reading).
- **Spanish:** fluent (speaking, writing, reading).
- **Danish:** elementary (speaking, reading).

REFERENCES

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