

Curriculum Vitae

João P. M. Araújo
Assistant Curator in Mycology
Institute of Systematic Botany
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Education

2013-2017	PhD in Biology Pennsylvania State University (USA) Title: Diversity, Ecology and Evolution of myrmecophilous <i>Ophiocordyceps</i>
2010-2012	MSc in Biodiversity Federal University of Amazonas (Brazil) Title: <i>Ophiocordyceps</i> diversity and the influence of environment on insect infection by entomopathogens in Reserva Ducke (Central Amazon)
2005-2009	BSc in Biology Centro de Ensino Superior de Juiz de Fora (Brazil)

Professional Experience

2021 – Present	Assistant Curator in Mycology – NYBG
2020 – 2021	Postdoctoral Researcher (Forest Resources and Conservation) >(06/2020 – 08/2021) University of Florida – USA
2019–2020	Visiting Researcher >(06/2019–04/2020) The University of the Ryukyus - Okinawa, Japan
2017–2019	Postdoctoral Researcher (Entomology Department) >(08/2017–04/2019) The Pennsylvania State University - USA
2017–2020	Collaborator Researcher (Plant Pathology Department) (10/2017–12/2020) Universidade Federal de Viçosa (UFV) - Brazil

2013–2017 **Research Assistant** (Entomology Department)
>(01/2013–06/2017) The Pennsylvania State University - USA

2015-2016 **Teaching Assistant** (Department of Biology)
(08–12/2015-2016) The Pennsylvania State University - USA

2014 **Scientific Consultant**
(02/2014) National Geographic Magazine (cover story Nov. 2014)

Publications

1. Araújo, J.P.M., Li, Y., Six, D., Rajchenberg, M., Smith, M.E., Johnson, A.J., Klepzig, K.D., Adans, S., Crous, P.W., Leal-Dutra, C., Skelton, S. Adans, J., Hulcr, J. (2022). Diversity and Evolution of *Entomocorticium*, a genus of bark beetle fungal symbionts derived from free-living, wood rotting *Peniophora*. *Journal of Fungi* 7: 1–26. (IF = 5.816)
2. Araújo J.P.M., Moriguchi M.G., Uchiyama S., Matsuura Y. (2021). Insights into the Ecology and Evolution of Blattodea-associated *Ophiocordyceps*. *IMA Fungus* 12: 1–17. <https://doi.org/10.1186/s43008-020-00053-9>. (IF = 3.515)
3. Crous, P.W., Lombard, L., ..., Araújo, J.P.M., Zhang, C.L., Thines, M. (2021) Fusarium: more than a node or a foot-shaped basal cell. *Studies in Mycology* 98: 100116. (IF = 16.097).
4. Imirzian, N., Araújo J.P.M., Hughes D.P. (2020). A new Zombie-ant Behavior Unravelled: Using Tree Trunk as Transmission Hubs. *Journal of Insect Pathology* 177: 1–7. <https://doi.org/10.1016/j.jip.2020.107499>. (IF = 2.511)
5. Araújo J.P.M., Evans H.C., Hughes, D.P. (2020). Zombie-ant fungi across continents: five new species within *Ophiocordyceps*. II. Myrmecophilous hymenostilboid species, a novel zombie lineage. *Mycologia* 112: 1138–1170. <https://doi.org/10.1080/00275514.2020.1822093>. (IF = 2.471).

6. Lisboa D.O., Evans H.C., Araújo J.P.M., Elias S.G., Barreto, R.W. (2020). *Moniliophthora perniciosa*, the mushroom causing witches' broom disease of cacao: insights into its taxonomy, ecology and host range in Brazil. *Fungal Biology* 124: 983–1003. <https://doi.org/10.1016/j.funbio.2020.09.001>. (IF = 2.789).
7. Li Y., Yu H., Araújo J.P.M., Zhang X., Ji Y., Hulcr J. (2020). *Esteya floridanum* sp. nov.: An Ophiostomatalean Nematophagous Fungus and its Potential to Control the Pine Wood Nematode. *Phytopathology*. <https://doi.org/10.1094/PHYTO-06-20-0229-R>. (IF = 12.623)
8. Saltamachia, S.J. & Araújo, J. P. M. (2020). *Ophiocordyceps desmidiospora*, a basal lineage within “Zombie-Ant Fungi” clade. *Mycologia*. 112: 1171–1183. (IF = 2.471)
9. Araújo J.P.M., Hughes, D.P. (2019). Zombie-ant Fungi Emerged from Non-Manipulating, Beetle-Infecting Ancestors. *Current Biology*. 29: 1–4. (IF = 9.601)
10. Araújo J.P.M., Evans H.C., Kepler R., Hughes D.P. (2018). Zombie-ants across continents: 15 new species and new combinations within *Ophiocordyceps*. I. Myrmecophilous hirsutelloid species. *Studies in Mycology*. 90: 1–42. (IF = 16.097)
11. Evans H.C., Araújo J.P.M., Halfeld V.R., Hughes, D.P. (2018). “Epitypification and redescription of the zombie-ant fungus, *Ophiocordyceps unilateralis* (Ophiocordycitaceae).” *Fungal Systematics and Evolution*. 1: 13-22. (IF = not yet assigned, new journal).
12. Loreto RG, Araújo J.P.M., Kepler R., et al. (2018). Evidences for convergent evolution of host parasitic manipulation in response to environmental conditions. *Evolution*. 72: 2144. (IF = 3.573)
13. Araújo J.P.M., Hughes, D.P. (2017). The Fungal Spore: Myrmecophilous *Ophiocordyceps* a case study. In: *The Fungal Community: Its Organization and Role in the Ecosystem* (Dighton J, White JM, eds). CRC Press, USA. (Book chapter, no IF)
14. Araújo J.P.M., Hughes DP (2016). Diversity of Entomopathogenic Fungi: Which Groups Conquered the Insect Body? *Advances in Genetics*. 94: 1-39. (IF = 5.431)

15. Crous, P.W, Wingfield, M.J., Burgess, T. I., *et al.* (2016) Molecular phylogeny and Evolution of Fungi – *Persoonia*. 37: 218-403. (IF = 6.860)
16. Hughes DP, Araújo J.P.M., Loreto RG, *et al.* (2016) From so Simple a Beginning: The Evolution of Behavioral Manipulation by Fungi – *Advances in Genetics*. 94: 437-469. (IF = 5.431).
17. Barbosa B.C., Halfeld V.R., Araújo J.P.M., *et al.* (2015). Record of *Ophiocordyceps unilateralis sensu lato*, the zombie-ant fungus, parasitizing *Camponotus* in an urban fragment of Atlantic Rainforest in southeastern Brazil. *Studies on Neotropical Fauna and Environment*. 50: 1-3. (IF = 1.04)
18. Araújo J.P.M., Evans H.C., Geiser, D.M. et al. (2015). Unravelling the diversity behind the *Ophiocordyceps unilateralis* (Ophiocordycipitaceae) complex: Three new species of zombie-ant fungi from the Brazilian Amazon. *Phytotaxa*. 220: 224-238. (IF = 1.185)
19. Quandt A.C., Kepler R.M., Gams W., Araújo J.P.M., *et al.* (2014). Phylogenetic-based nomenclatural proposals for *Ophiocordycipitaceae* (*Hypocreales*) with new combinations in *Tolypocladium*. *IMA Fungus*. 5: 121-134. (IF = 3.636)
20. Araújo J.P.M., Coimbra V.R.M., Wartchow F. (2011). *Leucopaxillus gracillimus* (Tricholomataceae, Basidiomycota): new record from Northeast Brazil and notes on its distribution. *Kurtziana*. 36: 5-9.
21. Albuquerque H.R., Araújo J.P.M., Putzke J. (2007). *Chromocyphella muscicola* (Fr.) Donk. (Basidiomycota, Agaricales): primeira citação para o Brasil. *Revista Brasileira de Biociências*. 5: 999-1001.

Article in review

J.P.M. Araújo, Y. Li, T. A. Duong, M. E. Smith, S. Adams & J. Hulcr (2022) Four New Species of *Harringtonia*: Unravelling the Laurel Wilt Fungal Genus. *Journal of Fungi*. (IF = 5.816)

Fellowships

- 2010-2012 - CAPES Masters Fellowship (2 years – \$15,650)
- 2013-2016 - CNPq Brazilian Government PhD full Scholarship (4 years – \$210,000)
- 2017 - PhD Assistantship Entomology Department PSU (10 months – \$21,500)
- 2019–2020 - Visiting Researcher at University of the Ryukyus (10 months – \$50,400)
- 2021* - Visiting Researcher at Kew Gardens – UK (2 months, U\$5,000)

Total - \$318,200

*Postponed to 2022 due to COVID-19

Professional activities

- Reviewer for *Fungal Biology*, *Fungal Ecology*, *Phytotaxa*, *MycoKeys*, *Nature ScientificReports*, *PLoS One*, *Journal of Invertebrate Pathology*;
- Research Consultant for National Geographic Magazine 2014
- Scientific Consultant for “She who brings gifts” movie 2016
- Scientific Consultant for National Geography of China 2017-2018

Invited Speaker

- VIII Latin American Congress of Mycology – Medellín, Colombia (11/2014)
- Entomology Seminar – Penn State University – University Park, USA (10/2015)
- VIII Brazilian Congress of Mycology – Brazil (10/2016)
- Cordyceps Forum 2017 – ShenYang, China (08/2017)
- 30th Asilomar Fungal Genetics Conference - California, USA (03/2019)*
- IX Brazilian Congress of Mycology - Manaus, Brazil (07/2019)*
- 64th Annual Meeting of the Japanese Society of Applied Entomology and Zoology –Japan (03/2020)*

Conferences Attended

- Asian Mycological Congress 2022, Pathum Thani, Thailand – Jul. 2022*
- Cordyceps Forum 2017, China 2017
- VIII Latinamerican Congress of Mycology, Colombia 2014
- VII Latinamerican Congress of Mycology, Costa Rica 2012
- VI Latinamerican Congress of Mycology, Argentina 2008
- V Brazilian Congress of Mycology, Brazil 2007
- 57º National Congress of Botany, Brazil 2006

*It will take place in 07/2022

Teaching Experience

- Biol 110 Introductory Biology (2 semesters/100 students) - Pennsylvania State University
- Mentor undergrad Student (Benjamin Fowler) - Pennsylvania State University - 2015
- Co-advising PhD Student (Thairine Mendes) – UFMG – Brazil – (2020–Current).
- Co-advising Msc. student (Fernando Freire) - Universidade Federal de Santa Catarina(2014-2016).
- Co-advising Msc. Student (Wesley Nardes) – Universidade Federal de Santa Catarina(2019–Present).
- Advising undergraduate student (Zoe Perloff) – Barnard College at Columbia University (2022–Present)

Field-work experience (Field surveys, logistics and permits)

- Brazil (Amazon and Atlantic Rainforests) – continuously from 2010 to 2020;
- Costa Rica – 2012;
- USA – 2013–2020;
- Colombia – 2014;
- Ghana – 2015;
- China (East Coast) – 2017;
- Ethiopia – 2018;
- Japan (Mainland and Southern islands) – 2019–2020;

Media Coverage

- <https://www.nytimes.com/2019/10/24/science/ant-zombies-fungus.html>
- <https://www.mirror.co.uk/science/girl-gifts-real-science-behind-8918179>
- <https://screenrant.com/girl-all-gifts-infected-kids-reason-explained/>