

# IVAN L. F. MAGALHAES – CURRICULUM VITAE

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**Languages:** Portuguese (native), English (advanced), Spanish (advanced)

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## EDUCATION

- 2014–2019    **Doctorate in Biological Sciences** from Universidad de Buenos Aires, Argentina.  
Thesis: *Systematics of the spider family Filistatidae (Araneae: Araneomorphae)*. [in Spanish] Advisor: Dr. Martín J. Ramírez
- 2011–2013    **Master’s degree in Ecology, Conservation and Wildlife Management** from Universidade Federal de Minas Gerais, Brazil  
Thesis: *Diversification of Sicarius spiders (Araneae: Sicariidae) in South America and its relationship with the biogeographic history of Neotropical dry forests*. [in Portuguese] Advisor: Dr. Adalberto J. Santos
- 2006–2010    **Bachelor’s degree in Biological Sciences, with emphasis on Environmental Sciences**, from Universidade Federal de Minas Gerais, Brazil

## SCIENTIFIC RESEARCH EXPERIENCE

- 2019–Current    Postdoctoral fellow at División Aracnología, Museo Argentino de Ciencias Naturales.  
Research fields: spider morphology and taxonomy; systematics; evolution
- 2014–2019    PhD candidate at División Aracnología, Museo Argentino de Ciencias Naturales.  
Research fields: spider morphology and taxonomy; molecular and morphological systematics; biogeography
- 2013–2014    Technical assistant to research at Laboratório de Aracnologia, Universidade Federal de Minas Gerais. Research fields: arachnology, spider taxonomy and phylogeny, molecular and morphologic systematics, phylogeography
- 2011–2013    Master’s student at Laboratório de Aracnologia, Universidade Federal de Minas Gerais. Research fields: arachnology, spider taxonomy and phylogeny, molecular and morphologic systematics, phylogeography, biogeography
- 2008–2010    Undergraduate student at Laboratório de Aracnologia, Universidade Federal de Minas Gerais. Research fields: arachnology, spider taxonomy, spider morphology, phylogenetic systematics
- 2007–2007    Undergraduate student at Laboratório de Biodados, Universidade Federal de Minas Gerais. Research fields: bioinformatics, text-mining.

## PUBLICATIONS

26. **Magalhaes ILF**, Porta AO, Wunderlich J, Proud DN, Ramírez MJ, Pérez-González A. 2021. Taxonomic revision of fossil Psilodercidae and Ochyroceratidae spiders (Araneae: Synspermiata), with a new species of *Priscaleclercera* from mid-Cretaceous Burmese amber, northern Myanmar. *Cretaceous Research*: 104751. <https://doi.org/10.1016/j.cretres.2020.104751>
25. **Magalhaes ILF**, Stockmann M, Marusik YM, Zonstein SL. 2020. On *Sahastata* (Araneae: Filistatidae): complementary description of the genotype and two new species from Oman and Morocco. *Zootaxa* 4899, 215–246. <https://doi.org/10.11646/zootaxa.4899.1.12>

24. Ramírez MJ, **Magalhaes ILF**, Derkarabetian S, Ledford J, Griswold CE, Wood HM, Hedin M. 2021. Sequence-capture phylogenomics of true spiders reveals convergent evolution of respiratory systems. *Systematic Biology* 70, 14–20. <https://doi.org/10.1093/sysbio/syaa043>
23. Alvarenga AS, **Magalhaes ILF**, Fonseca RN, Pérez González A. 2020. Rectifying the identities of the males of two *Micrathena* species (Araneae: Araneidae), with report of the first case of intersexuality in the genus. *Zootaxa* 4808: 151–164. <https://doi.org/10.11646/zootaxa.4808.1.9>
22. **Magalhaes ILF**, Azevedo GHF, Michalik P, Ramírez MJ. 2020. The fossil record of spiders revisited: implications for calibrating trees and evidence for a major faunal turnover since the Mesozoic. *Biological Reviews* 95: 184–217. <https://doi.org/10.1111/brv.12559>
21. **Magalhaes ILF**, Neves DM, Santos FR, Vidigal THDA, Brescovit AD, Santos AJ. 2019. Phylogeny of Neotropical *Sicarius* sand spiders suggests frequent transitions from deserts to dry forests despite antique, broad-scale niche conservatism. *Molecular Phylogenetics and Evolution* 140: 106569. <http://dx.doi.org/10.1016/j.ympev.2019.106569>
20. **Magalhaes ILF**. 2019. Spreadsheets to expedite taxonomic publications by automatic generation of morphological descriptions and specimen lists. *Zootaxa* 4624, 147–150. <http://dx.doi.org/10.11646/zootaxa.4624.1.12>
19. **Magalhaes ILF**, Grismado CJ. 2019. The Malagasy species of the crevice weaver genus *Andoharano* (Araneae: Filistatidae). *Bulletin of the Museum of Comparative Zoology* 126: 263–307. <http://dx.doi.org/10.3099/0027-4100-162.4.263>
18. **Magalhaes ILF**, Ramírez MJ. 2019. The crevice weaver spider genus *Kukulcania* (Araneae: Filistatidae). *Bulletin of the American Museum of Natural History* 426: 1–151.
17. **Magalhaes ILF**. 2018. A new, relictual *Antilloides* from Mexican caves: first mainland record of the genus and revised placement of the fossil *Misionella didicostae* (Araneae: Filistatidae). *Journal of Arachnology* 46: 240–248. <http://dx.doi.org/10.1636/joa-s-17-037.1>
16. Zonstein SL, Marusik YM, **Magalhaes ILF**. 2017. *Labahitha* nom.n., a replacement name for *Mystes* Bristowe, 1938, with a redescription of the type species (Aranei: Filistatidae). *Arthropoda Selecta* 26: 303–309. <https://doi.org/10.15298/arthsel.26.4.04>
15. Brescovit AD, Taucare-Ríos A, **Magalhaes ILF**, Santos AJ. 2017. On Chilean *Loxosceles* (Araneae: Sicariidae): first description of the males of *L. surca* and *L. coquimbo*, new records of *L. laeta* and three remarkable new species from coastal deserts. *European Journal of Taxonomy* 388: 1–20. <http://dx.doi.org/10.5852/ejt.2017.388>
14. **Magalhaes ILF**, Ramírez MJ. 2017. Relationships and phylogenetic revision of *Filistatinella* spiders (Araneae: Filistatidae). *Invertebrate Systematics* 31: 665–712. <http://dx.doi.org/10.1071/IS16083>
13. **Magalhaes ILF**, Ravelo AM, Scioscia CL, Peretti AV, Michalik P, Ramírez MJ. 2017. Recluse spiders produce flattened silk rapidly using a highly modified, self-sufficient spinning apparatus. *Journal of Zoology* 303: 27–35. <http://dx.doi.org/10.1111/jzo.12462>
12. **Magalhaes ILF**, Brescovit AD, Santos AJ. 2017. Phylogeny of Sicariidae spiders (Araneae: Haplogynae), with a monograph on Neotropical *Sicarius*. *Zoological Journal of the Linnean Society* 179: 736–864. <https://doi.org/10.1111/zoj.12442>
11. **Magalhaes ILF**, Martins PH, Nogueira AA, Santos AJ. 2017. Finding hot singles: matching males to females in dimorphic spiders (Araneidae: *Micrathena*) using phylogenetic placement and DNA barcoding. *Invertebrate Systematics* 31: 8–36. <http://dx.doi.org/10.1071/is15062>
10. **Magalhaes ILF**, Fernandes LR, Ramírez MJ, Bonaldo AB. 2016. Phylogenetic position and taxonomic review of the *Ianduba* spiders (Araneae: Corinnidae) endemic to the Brazilian Atlantic rainforest. *Arthropod Systematics and Phylogeny* 74: 127–159.
9. **Magalhaes ILF**. 2016. On new or poorly known Australian Filistatidae spiders (Araneae: Araneomorphae), including a study on the fine morphology of *Wandella*. *Journal of Natural History* 50: 1815–1858. <http://dx.doi.org/10.1080/00222933.2016.1181805>

8. Brescovit AD, **Magalhaes ILF**, Cizauskas I. 2016. Three new species of *Misionella* from northern Brazil (Araneae, Haplogynae, Filistatidae). *ZooKeys* 589: 71–961. <http://dx.doi.org/10.3897/zookeys.589.7951>
7. **Magalhaes ILF**, Oliveira U, Santos FR, Vidigal THDA, Brescovit AD, Santos AJ. 2014. Strong spatial structure, Pliocene diversification and cryptic diversity in the Neotropical dry forest spider *Sicarius cariri*. *Molecular Ecology* 23: 5323–5336. <http://dx.doi.org/10.1111/mec.12937>
6. Azevedo GHF, Faleiro BT, **Magalhães ILF**, Benedetti AR, Oliveira U, Pena-Barbosa JPP, Santos MTT, Vilela PF, Maria M, Santos AJ. 2014. Effectiveness of sampling methods and further sampling for accessing spider diversity: a case study in a Brazilian Atlantic rainforest fragment. *Insect Conservation and Diversity* 7: 381–391. <http://dx.doi.org/10.1111/icad.12061>
5. **Magalhães ILF**, Brescovit AD, Santos AJ. 2013. The six-eyed sand spiders of the genus *Sicarius* (Araneae: Haplogynae: Sicariidae) from the Brazilian Caatinga. *Zootaxa* 3599: 101–135. <https://doi.org/10.11646/zootaxa.3599.2.1>
4. **Magalhães ILF**, Santos AJ. 2012. Phylogenetic analysis of *Micrathena* and *Chaetacis* spiders (Araneae: Araneidae) reveals multiple origins of extreme sexual size dimorphism and long abdominal spines. *Zoological Journal of the Linnean Society* 166: 14–53. <http://dx.doi.org/10.1111/j.1096-3642.2012.00831.x>
3. **Magalhães ILF**, Santos AJ. 2011. Two new species and taxonomic notes on the Neotropical spiny orb-weaving spiders *Micrathena* and *Chaetacis* (Araneae: Araneidae), with remarks on the development of *Micrathena excavata*. *Zootaxa* 2983: 39–56.
2. **Magalhães ILF**, Santos AJ. 2011. Description of the male of *Pozonia bacillifera* (Araneae: Araneidae). *Zoologia* 28: 112–114. <http://dx.doi.org/10.1111/j.1096-3642.2012.00831.x>
1. Barbosa-Silva A, Soldatos TG, **Magalhães ILF**, Pavlopoulos GA, Fontaine JF, Andrade-Navarro MA, Schneider R, Ortega JM. LAITOR: Literature Assistant for Identification of Terms co-Occurrences and Relationships. *BMC Bioinformatics* 11: 70. <http://dx.doi.org/10.1111/j.1096-3642.2012.00831.x>

## MANUSCRIPTS UNDER PEER-REVIEW & PRE-PRINTS

Zamani A, Stockmann M, **Magalhaes ILF**, Rheims CA. New taxonomic considerations in the spitting spider family Scytodidae (Arachnida:Araneae). Submitted to *Zootaxa*.

**Magalhaes ILF**, Santos AJ, Ramírez MJ. Incorporating topological and age uncertainty into event-based biogeography supports paleo-islands in Galapagos and ancient connections among Neotropical dry forests. *bioRxiv* 2021.05.11.443682; <https://doi.org/10.1101/2021.05.11.443682>

## PEER-REVIEWING

Referee for the *Zoological Journal of the Linnean Society* (2013, 1 manuscript), *Molecular Phylogenetics and Evolution* (2014–2019, 2), *African Invertebrates* (2015–2019, 3), *Journal of Biogeography* (2015–2021, 3), *Zootaxa* (2015–2020, 18), *Zookeys* (2015–2021, 10), *Revista Ibérica de Aracnología* (2015, 1), *European Journal of Taxonomy* (2015–2020, 3), *Molecular Ecology* (2015–2016, 2), *Zoology in the Middle East* (2016, 1), *Biological Journal of the Linnean Society* (2016, 1), *Journal of Natural History* (2017, 1), *Check List* (2017, 1), *Arachnology* (2017–2020, 4), *Arthropoda Selecta* (2018, 1), *Ibis* (2018–2019, 2), *Revista Mexicana de Biodiversidad* (2018, 1), *Arachnologische Mitteilungen* (2019, 1), *Revista da Biologia* (2019, 1), *PeerJ* (2019, 1), *Zoologia* (2019, 1), *Journal of Arachnology* (2020–2021, 2), *Cretaceous Research* (2020, 1), *Journal of Comparative Physiology A* (2020, 1), *Systematics and Biodiversity* (2021, 1)

Section editor for *Check List* (2017–2021, 4 manuscripts)

## SCIENTIFIC EVENTS ATTENDED

- Plenary speaker** in the 2021 Virtual Meeting of the American Arachnological Society. **Magalhaes ILF**. *Spider diversity and biogeography in deep evolutionary time*. Virtual from the USA, 2021.
- VI Congreso Latinoamericano de Aracnología. Virtual from Buenos Aires, Argentina, 2020.
- Poster presentation at the XXI Young Systematists' Forum. **Magalhaes ILF**, Santos AJ, Ramírez MJ. *Incorporating topological and age uncertainty into biogeographic inference in Neotropical sand spiders (Araneae: Sicarius)*. Virtual from the United Kingdom, 2020.
- I Meeting of Systematics, Biogeography and Evolution. Virtual from Colombia, 2020.
- Oral presentation at the 2020 American Arachnological Society Virtual Summer Symposium. **Magalhaes ILF**, Porta AO, Wunderlich J, Proud DN, Ramírez MJ, Pérez-González A. *Taxonomic revision of fossil Psilodercidae and Ochyroceratidae spiders (Araneae: Synspermiata), with a new species of Priscaleclercera from Burmese amber*. Virtual from the United States, 2020.
- Oral presentation at the 21st International Congress of Arachnology. **Magalhaes ILF**, Ramírez MJ. *Phylogeny of the crevice-weaver spiders (Araneae: Filistatidae)*. Christchurch, Canterbury, New Zealand, 2019.
- Oral presentation at the II Jornadas Argentinas de Aracnología. **Magalhaes ILF**, Neves DM, Santos FR, Vidigal THDA, Brescovit AD, Santos AJ. *Filogenia y evolución del nicho ambiental en las arañas de arena neotropicales (Sicariidae: Sicarius)*. La Plata, Buenos Aires, Argentina, 2018.
- Oral presentation at the V Congreso Latinoamericano de Aracnología. **Magalhaes ILF**, Ramírez MJ. *La familia Filistatidae (Araneae: Araneomorphae) en Norteamérica*. Caeté, Minas Gerais, Brazil, 2017.
- Oral presentation at the V Congreso Latinoamericano de Aracnología. Labarque FM, Izquierdo MA, **Magalhaes ILF**. *¿Cuál es este clado llamado Synspermiata? Una mirada evolutiva*. Caeté, Minas Gerais, Brazil, 2017.
- Poster presentation at the V Congreso Latinoamericano de Aracnología. **Magalhaes ILF**, Carvalho LS, Santos FR, Vidigal THDA, Santos AJ. *Uma filogenia revisada das aranhas-espinosas neotropicais (Araneidae: Micrathena)*. Caeté, Minas Gerais, Brazil, 2017.
- Oral presentation at the XXXV Willig Hennig Meeting. **Magalhaes ILF**, Martins PH, Nogueira AA, Santos AJ. *Finding hot singles: matching males to females in dimorphic spiders (Araneidae: Micrathena) using phylogenetic placement and DNA barcoding*. Buenos Aires, Argentina, 2016.
- Poster presentation at the XXXV Willig Hennig Meeting. **Magalhaes ILF**, Ramírez MJ. *Relationships among Prithinae spiders from Indo-Pacific islands (Araneae: Filistatidae)*. Buenos Aires, Argentina, 2016.
- Oral presentation at Evolution 2015. **Magalhaes ILF**, Santos FR, Vidigal THDA, Brescovit AD, Santos AJ. *Phylogenetic niche conservatism in Sicarius spiders associated to Neotropical arid environments: a matter of scale?* Guarujá, São Paulo, Brazil. 2015.
- Oral presentation at III Congreso Latinoamericano de Aracnología. **Magalhães ILF**, Santos AJ. *Evolución de las espinas abdominales y del dimorfismo sexual de tamaño en Micrathena (Araneae: Araneidae) con base en una filogenia del género*. Montenegro, Quindío, Colombia. 2011.
- International Symposium on Phylogeography. Universidade de São Paulo, São Paulo, Brazil. 2010.
- Poster presentation at XXVIII Congresso Brasileiro de Zoologia - Biodiversidade e Sustentabilidade. **Magalhães ILF**, Santos AJ. *Análise cladística dos gêneros de aranhas neotropicais Micrathena e Chaetacis (Araneae, Araneidae) utilizando caracteres contínuos e discretos*. Belém, Pará, Brazil. 2010.
- Poster presentation at IX Congresso de Ecologia do Brasil. **Magalhães ILF**, Faleiro BT, Azevedo GHF, Vilela PF, Santos AJ. *Inventário estruturado da araneofauna em uma área de floresta*

*tropical semi-decídua secundária em Minas Gerais, Brasil.* São Lourenço, Minas Gerais, Brazil. 2009.

Poster presentation at X-Meeting 2007: 3<sup>rd</sup> International Conference of the Brazilian Association for Bioinformatics and Computational Biology. **Magalhães ILF**, Barbosa-Silva A, Ortega JM. *Extraction of sentence-specific co-occurrences of proteins using text-mining.* São Paulo, Brazil. 2007.

## OFFICIAL EVENTS ATTENDED

Participation in the Workshop to Evaluate the Conservation Status of Brazilian Arachnids, for their posterior inclusion in the official red list of threatened taxa of the Ministry of Environment of Brazil. Iperó, São Paulo, Brazil. 2014.

## EXTENSION AND SCIENTIFIC COMMUNICATION

Participation in scientific stands about arachnids in the Long Night of the Museums at MACN and Halloween night at MACN (2015–2017).

## EVENTS ORGANIZED

Organiser. VI Congreso Latinoamericano de Aracnología. Virtual from Argentina, 2020.

Organiser. V Congreso Latinoamericano de Aracnología. Caeté, Minas Gerais, Brasil, 2017.

Collaborator. XXXV Annual Meeting of the Willi Hennig Society. Buenos Aires, Argentina, 2016.

Collaborator. I Workshop - Modelos Preditivos de Distribuição de Espécies: Aplicações, Desafios e Perspectivas. Universidade Federal de Minas Gerais, Belo Horizonte, Minas Gerais, Brasil. 2011.

## AWARDS

Norman Platnick Award for Taxonomic Research, American Arachnological Society. USA, 2021.

First place for scientific productivity of the post-doc and PhD students of the Museo Argentino de Ciencias Naturales for the biennium 2016–2017. Buenos Aires, Argentina, 2018.

Second place as best oral presentation by a graduate student with the work *Evolución de las espinas abdominales y del dimorfismo sexual de tamaño en Micrathena (Araneae: Araneidae) con base en una filogenia del género.* III Congreso Latinoamericano de Aracnología, Colombia. 2011.

## GRANTS

Synthesis+ ACCESS grant (IL-TAF-1327, DE-TAF-1356, 2019). *Systematics of Sicariidae spiders: evolutionary origin, biogeography, and taxonomy of cave Loxosceles in Israel.* European Commission, H2020 Research Infrastructure programme.

International Congress of Arachnology Fischer Grant (2019). Participation in the 21st International Congress of Arachnology. International Society of Arachnology (NZD \$3000).

Vincent Roth Fund for Systematics Research (2018). *Systematics and phylogeny of the crevice-weaver spiders (Araneae: Filistatidae).* American Arachnological Society, USA (USD \$1000).

Theodore Roosevelt Memorial Grant (2017). *Systematics and taxonomy of the Nearctic Kukulcania spiders (Araneae: Filistatidae).* American Museum of Natural History, New York, NY, USA (USD \$2000).

Ernst Mayr Travel Grant in Animal Systematics (2017). *Systematics and taxonomy of the Nearctic Kukulcania spiders (Araneae: Filistatidae).* Museum of Comparative Zoology at Harvard, Cambridge, MA, USA (USD \$1460).

SSE International Travel Stipend (2015). Participation in Evolution 2015. Society for the Study of Evolution, St. Louis, MO, USA (USD \$900).

## SHORT COURSES ATTENDED

*Ecology and Conservation of the Brazilian Caatinga.* 120 hours. Universidade Federal de Pernambuco, Buíque, Pernambuco, Brazil. 2012.

*São Paulo School of Advanced Sciences – Evolution.* 80 hours. Universidade de São Paulo, Ilhabela, São Paulo, Brazil. 2012.

## SHORT COURSES TAUGHT

*Taxonomy: practical approaches to image management, expediting descriptions, and scientific illustration.* 15 horas. Hebrew University of Jerusalem, campus Edmond J. Safra, Jerusalem, Israel. 2020.

*Management and curation of digital images for morphological studies.* 6 hours. Universidade Federal de Minas Gerais, Belo Horizonte, Minas Gerais, Brazil. 2017.

*Introduction to the arachnids.* 8 hours. Instituto Federal de Educação, Ciência e Tecnologia do Sul de Minas, Inconfidentes, Minas Gerais, Brazil. 2013.

*Introduction to scientific illustration.* 12 hours. Universidade Federal de Minas Gerais, Belo Horizonte, Minas Gerais, Brazil. 2011.

*Arachnids, with emphasis on groups of medical importance.* 33 hours each. Universidade Federal de Minas Gerais, Belo Horizonte, Minas Gerais, Brazil. 2008-2013 (six courses).

## MENTORING

Co-advisor for Pedro Henrique Martins. Master's Thesis defended in 2020: *Phylogeography and species delimitation in the Sicarius thomisoides species complex* (Araneae: Sicariidae). Programa de Pós-Graduação em Zoologia, Universidade Federal de Minas Gerais, Brazil.

## PARTICIPATION IN THESIS COMMITTEES

Participation in the PhD thesis qualification committee of Mayara Drumond Faustino Magalhães: *Da descrição ao status de conservação: resolvendo lacunas de conhecimento na diversidade de um gênero de aranhas da Mata Atlântica Brasileira* (Xenoctenidae: Paravulsor). Programa de Pós-Graduação em Zoologia, Universidade Federal de Minas Gerais, Brazil, 2021.

Participation in the Master's thesis defense committee of Denizar de Almeida Alvarenga: *De cavernas a continentes, explorando fatores locais e regionais que direcionam a similaridade de comunidades de invertebrados cavernícolas nas regiões afrotropical e neotropical.* Programa de Pós-Graduação em Ecologia Aplicada, Universidade Federal de Lavras, Brazil, 2020.

## FIELDWORK EXPERIENCE

Expeditions for sampling spiders and other arachnids:

Israel (several localities along the country), 8 days, 2020

New Zealand (South Island), 10 days, 2019

Argentina (Corrientes), 4 days, 2016

Argentina (Isla de Los Estados), 15 days, 2014

Argentina (La Pampa and Río Negro), 10 days, 2014

Chile (from Illapel to Caldera), 15 days, 2013

Chile (from Illapel to Valdivia), 22 days, 2013.  
Brazil (from Ceará to Sergipe), 35 days, 2012.  
Brazil (Piauí), 24 days, 2012.  
Brazil (Minas Gerais and Bahia), 24 days, 2012.  
Brazil (Minas Gerais), 15 days, 2011.  
Brazil (Minas Gerais, Goiás, Pará, Rio de Janeiro and Santa Catarina), several short expeditions (5–7 days), 2008–2011.