CURRICULUM VITAE

Personal Information

- **Caian Souza Gerolamo** ORCID Lattes
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- Instituto de Biociências – Universidade de São Paulo, Rua do Matão, Travessa 14, 321. CEP: 05508-900, São Paulo, Brazil

Current Position

- Ph.D. candidate – Universidade de São Paulo Started at February 2018 Thesis Title: "Distribution, anatomy and hydraulic architecture of Bignonieae lianas from the Amazon and Atlantic Forest". Estimated completion date: August 2022.
  Supervisors: Dra. Veronica Angyalossy and Dr. Anselmo Nogueira
  Laboratório de Anatomia Vegetal (Plant Anatomy Laboratory), Departamento de Botânica, Instituto de Biociências – Universidade de São Paulo, Rua do Matão, Travessa 14, 321. CEP: 05508-900, Brazil
  Main Research Interests: Wood Anatomy, Plant hydraulics, Biomechanics and Plant Ecology, Ecology of Lianas

Education

- **Master of Sciences** (MSc) in Biological Sciences, Department of Botany, Institute of Biosciences, University of São Paulo. 2014-2016.
  Concentrations: Botany, Ecology of liana, Plant Anatomy, Hydraulics and Biomechanics of lianas
  Supervisors: Dra. Veronica Angyalossy and Dr. Anselmo Nogueira
  Thesis title: Dynamics, anatomy, biomechanics and water conductivity of lianas from the Amazon forest
- **Teacher degree** in Biological Sciences, University of São Paulo. 2012-2014
- **Bachelor degree** in Biological Sciences (BSc), University of São Paulo. 2009-2012
  Concentrations: Botany, Ecology of liana, Plant Anatomy, Hydraulics and Biomechanics of lianas
  Supervisor: Dra. Veronica Angyalossy
  Undergraduate Research title: "*Anatomy of wood in trees, shrubs and lianas of the Bignoniaceae*"

Foreign Languages

- Mother language Portuguese
- **English**: can write and speak at an intermediary level

Work

- **Coordenação de Aperfeiçoamento de Pessoal de Nível Superior** (CAPES), a public company, **Researcher** responsible for developing scientific research by the Department of Botany (IB-USP) in the current doctorate, estimated completion date: August 2022.
- **Cursinho Popular Mafalda**, a small public company, **Biology instructor** in 2016.

- **National Council for Scientific and Technological Development** (CNPq), a public company, **Researcher** responsible for developed scientific research by the Department of Botany (IB-USP) in the Master's degree - 2014 to 2016.
- **University of São Paulo**, Institute of Biosciences (IB-USP), a public company, **Teacher's assistant** of the Program of Improvement of Teaching (PAE-USP) of the course: Biology for Pharmacy - 2015.
- **University of São Paulo**, Institute of Biosciences (IB-USP), a public company, **Teacher's assistant in the course**: Form and Function of Vascular Plants - (2nd semester) 2012.
- **University of São Paulo**, Institute of Biosciences (IB-USP), a public company, **Teacher's assistant in the course**: Morphology and anatomy of vascular plants - (1st semester) 2012.
- **Trainee Voluntary** in Plant Anatomy Laboratory, University of São Paulo, Institute of Biociências under the coordination of Prof. Dr. Veronica Angyalossy. 2011.
- **Centro Cultural "Desafio Alfa" – Cursinho preparatório para escolas técnicas**, a small private company, **Biology and Chemistry instructor** in 2011.
- **Cursinho do CRUSP**, a small private company, **Biology and Chemistry instructor** in 2010.

CONFERENCES AND WORKSHOPS

- BARBOSA, A. C. F.; **GEROLAMO, S. C** .; LIMA ,A. C.; ANGYALOSSY, V; PACE, M. R. Polishing entire stems and roots using sandpapers under water: an alternative for macroscopic analyses. 2021. (Presentation of Work / Congress) – In: 71˚ Congresso Nacional de Botânica.
- **GEROLAMO, C. S**. Hydraulic conductivity and xylem vulnerability to cavitation in Lianas of the Amazon forest. 2017. (Presentation of Work / Symposium) - Plant Hydraulic Workshop at UNICAMP.
- **GEROLAMO, C. S**. ; NOGUEIRA, A.N; ROWE, N .; ANGELES, G .; ANGYALOSSY, V. The impact of cambial variant on the biomechanics and hydraulics in Bignoniaceae. 2014. (Presentation of Work / Congress) - "New Perspectives on Climbing Plants "from the 22nd to the 24th of October 2014 at the Linnean Society of London and the Royal Botanic Gardens Kew.
- **GEROLAMO, S. C .**; ANGYALOSSY, V. Stem anatomical structure in lianas, trees and shrubs of Bignonieae and Tecomeae (Bignoniaceae). (Presentation of Work / Congress) - In: 2012 IAWA Pan-American Meeting, 2012, Recife - PE. Annals of the 2012 IAWA Pan-American Meeting, 2012.
- **GEROLAMO, S. C .**; ANGYALOSSY, V. Comparison of the anatomical pattern of the stem in the lianescent, arboreal and shrubby habits in the Bignoniaceae. (Presentation of Work / Congress) - In: 49th Annual Meeting of the Association for Tropical Biology (ATBC), 2012, Bonito - MS. Annals of the 49th Annual Meeting of the Association for Tropical Biology (ATBC), 2012.

PUBLICATIONS

Chapters in Books

- **Gerolamo, C. S**. 2021. Transporte de água em plantas: da anatomia as funções do xilema. In: Scarlet Santos Monteiro ; Elton John de Lírio; Adriana dos Santos Lopes; Francisco Palmieri Montessi do Amaral; Marisia Pannia Esposito; Cláudia Maria Furlan (Org.). X ˚ Botânica no

Inverno. Curso de Extensão do Departamento de Botânica da Universidade de São Paulo. ISBN: 978-65-88234-04. 10.ed. São Paulo: v:1, p 1- 233.

- **Gerolamo, C. S**., Barros I.B., Sato M., Carvalho V.J. 2016. Adaptação dos grupos de invertebrados a diferentes ambientes. In: Rosana Louro Ferreira Silva; Thiago Marinho Del Corso. (Org.). Possibilidades didáticas para o ensino de Zoologia na educação básica. ISBN 978-85-85658-64-9. 1ed. São Paulo: v. I, p. 9-25.

Articles

- Rocha, E., Nogueira, A., Costa, F. C., Burnham, R. J., **Gerolamo, C. S.,** Honorato, C. F. and Schietti, J. 2022. Liana functional assembly along the hydrological gradient in Central Amazonia. Oecology. Accept June 2022.
- Tang, Y., Yin, S., Pace, M. R., **Gerolamo, C. S.,** Nogueira, A., Zuntini, A. R., and Liesche, J. 2022. Diameters of phloem sieve elements can predict stem growth rates of woody plants . Tree Physiology. DOI: 10.1093/treephys/tpac022
- Pace, M. R., **Gerolamo, C. S.,** Onyenedum, J. G., Terrazas, T., Victorio, M. P., Cunha Neto, I. L., and Angyalossy, V. 2022. The wood anatomy of Sapindales: diversity and evolution of wood characters. Brazilian Journal of Botany, 45(1), 283-340. DOI: 10.1007/s40415-021-00764-2
- **Gerolamo, C. S.,** Costa F. R. C., Zuntini A., Vicentini, A., Lohmann, L. G., Schietti, J., Rocha, E. X., Angyalossy V. and Nogueira, A. 2022. Hydro-Edaphic Gradient and Phylogenetic History Explain the Landscape Distribution of a Highly Diverse Clade of Lianas in the Brazilian Amazon. Volume 5, Number 809904. DOI: 10.3389/ffgc.2022.809904
- Antar, G. M., Pivello, V. R., **Gerolamo, C. S**., Nogueira, A., and Sano, P. T. 2022. Herb–subshrub diversity in open savanna sites with distinct fire regimes in the Jalapão region, Brazil. Journal of Tropical Ecology, 1-9. DOI: 10.1017/s0266467422000232
- Barbosa, A. C. F., **Gerolamo**, C. S., Lima, A. C., Angyalossy, V. and Pace, M. R. 2021. Polishing entire stems and roots using sandpaper under water: An alternative method for macroscopic analyses. Applications in Plant Sciences, 9(5) 1:9. DOI: 10.1002/aps3.11421
- Costa, F. R. C., Zuanon, J., Baccaro, F. B., de Almeida, J. S., Menger, J. D. S., Souza, J. L. P., **Gerolamo**, C. S ... and de Castilho, C. V. 2020. Effects of climate change on central Amazonian forests: a two decades synthesis of monitoring tropical biodiversity. Oecologia Australis, 24 (2): 317-335. DOI: 10.4257/oeco.2020.2402.07
- **Gerolamo**, C. S., Nogueira, A., Pace, M. R., and Angyalossy, V. 2020. Interspecific anatomical differences result in similar highly flexible stems in Bignoniaceae lianas. *American Journal of Botany,* 107(12): 1622 – 1634. DOI: 10.1002/ajb2.1577
- Rocha, E. X., Schietti, J., **Gerolamo**, C. S., Burnham, R. J., and Nogueira, A. 2020. Higher rates of liana regeneration after canopy fall drives species abundance patterns in central Amazonia. *Journal of Ecology,* 108(4): 1311 - 1321. DOI: 10.1111/1365-2745.13345
- **Gerolamo**, C. S., Nogueira, A., Costa, F. R. C., de Castilho, C. V., and Angyalossy, V. 2018. Local dynamic variation of lianas along topography maintains unchanging abundance at the landscape scale in central Amazonia. *Journal of Vegetation Science*, 29(4): 651-661. DOI: 10.1111/jvs.12644
- **Gerolamo**, C.S. and Angyalossy, V. 2017. Wood anatomy and conductivity in lianas, shrubs and trees of Bignoniaceae. *IAWA Journal*, 38(3): 412-432. DOI: 10.1163/22941932-20170177

Works presented in Events

- **Gerolamo**, C. S.; Angyalossy, V. ; Rowe, N. ; Nogueira, A.N ; Angeles, G. . The Impact os Cambial Variant on the Bimechanics and Hydraulics of Lianas in Bignoniaceae. In: New Perspectives on Climbing Plants, 2014, Londres. New Perspectives on Climbing Plants-Abrstracts, 2014.
- **Gerolamo**, C. S.; Angyalossy, V. . Stem Anatomical Structure in Lianas, Trees and Shrubs of Bignonieae and Tecomeae (Bignoniaceae). In: 2012 IAWA Pan-american Meeting, 2012, Recife. 2012 IAWA Pan-american Meeting- Abstracts, 2012.

Artistic production

- **Gerolamo**, C. S., Figueiredo, C. F. ; Lima, A. C. ; Cunha Neto, I. L. ; Pace, M. R. ; Nogueira, A.N ; Acevedo-Rodriguez, P. ; Angyalossy, V. 2021. Cipós: os segredos suspensos da floresta. 2020. Instituto de Biociências da Universidade de São Paulo (IB-USP). Summary: The exhibition features video and a virtual display of the plants, called Cipós, revealing, in macroscopic and microscopic images, the diversity of shapes, colors and unique designs in their internal structures (https://biblioteca.metrosp.com.br/index.php/ptbr/359-linha-visuais/696-cipos).
- **Gerolamo, C. S.** & Figueiredo, C. F., Lima, A. C., Pace, M. R., Angyalossy, V. & Ceccantini, G. C. T. 2021. IDENTIFICATION of LIANAS by stem anatomy and external bark. Field Guide. https://fieldguides.fieldmuseum.org/guides/guide/1425