

Johanna R. Jantzen

PhD Candidate

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Florida Museum of Natural History
Dickinson Hall, 1659 Museum Rd
Gainesville, FL 32611

EDUCATION

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| 2015 – present | PhD Botany
Department of Biology, University of Florida, Gainesville, Florida, USA
<u>Dissertation</u> : Diversification and Niche Evolution in Neotropical <i>Tibouchina s.s.</i>
(Melastomataceae)
Advisors: Dr. Pamela Soltis and Dr. Douglas Soltis |
| 2013 – 2014 | MSc Biodiversity & Taxonomy of Plants
Royal Botanic Garden Edinburgh & University of Edinburgh, Scotland, UK
<u>Thesis</u> : Phylogenetic investigation into the evolution of
<i>Coelocarpum</i> (Verbenaceae) leading to a taxonomic
revision
Advisor: Dr. Alan Forrest
Graduated with distinction |
| 2007 – 2011 | BSc Biology
University of Victoria, Victoria, BC, Canada
Graduated with distinction |

PEER-REVIEWED PUBLICATIONS

6. **Jantzen, J.R.***, Amarasinghe, P.*, Folk, R.A., Reginato, M., Michelangeli, F.A., Soltis, D.E., Cellinese, N., and Soltis, P.S. 2020. A two-tier bioinformatic pipeline to develop probes for target capture of nuclear loci with applications in Melastomataceae. *Applications in Plant Sciences* 8(5): e11345. DOI: 10.1002/aps3.11345
5. **Jantzen, J.R.**, Whitten, M.W., Neubig, K.M., Majure, L.C., Soltis, D.E., and Soltis, P.S. 2019. Effects of taxon sampling and tree reconstruction methods on phylodiversity metrics. *Ecology and Evolution* 9(17): 9479-9499. DOI: <https://doi.org/10.1002/ece3.5425>.
4. Allen, G.A., McCormick, L.J., **Jantzen, J.R.**, Marr, K.L., and Brown, B.N. 2017. Distributional and morphological differences between native and introduced Common Reed (*Phragmites australis*, Poaceae) in Western Canada. *Wetlands* 110: 1-9. DOI: <https://doi.org/10.1007/s13157-017-0914-4>

3. Sutherland, B.J.G., Poley, J.D., Igboeli, O.O., **Jantzen, J.R.**, Fast, M.D., Koop, B.F., and Jones, S.R.M. 2015. Transcriptomic responses to emamectin benzoate in Pacific and Atlantic Canada salmon lice *Lepeophtheirus salmonis* with differing levels of drug resistance. *Evolutionary Applications* 8(2): 133-148. DOI: <https://doi.org/10.1111/eva.12237>
2. Rondeau, E.B., Minkley, D.R., Leong, J.S., Messmer, A.M., **Jantzen, J.R.**, Von Schalburg, K.R., Lemon, C., Bird, N.H., and Koop, B.F. 2014. The genome and linkage map of the Northern Pike (*Esox lucius*): Conserved synteny revealed between the Salmonid sister group and the Neoteleostei. *PLoS One* 9(7): e102089. DOI: <https://doi.org/10.1371/journal.pone.0102089>
1. Sutherland, B.J.G., Hanson, K.C., **Jantzen, J.R.**, Koop, B.F., and Smith, C.T. 2014. Divergent immunity and energetic programs in the gills of migratory and resident *Oncorhynchus mykiss*. *Molecular Ecology* 23(8): 1952-1964. DOI: <https://doi.org/10.1111/mec.12713>

[Google scholar](#)

*co-first authors

MANUSCRIPTS IN PROGRESS

7. Freitas Oliveira, A.L., de Jesus Rocha, K.C., Rodrigues, J.L., **Jantzen, J.R.**, and Viana, P.L. *Tibouchina carajensis* (Melastomataceae), a new species endemic to the Serra dos Carajás in the Brazilian Amazon. *In review at Phytotaxa*.

FELLOWSHIPS & GRANTS

Grants Total: \$14,980

2019	Society of Herbarium Curators, Student Research Award (\$500)
2019	Society for the Preservation of Natural History Collections, NHCCN Travel Grant (~\$750)
2016-2019	American Society of Plant Taxonomists, Student Travel Grant (\$335)
2018	American Philosophical Society, Lewis and Clark Fund for Exploration and Field Research (\$5,000)
2018	University of Florida Biology Graduate Student Association Michael May Grant (\$300)
2017	Botanical Society of America, Graduate Student Research Award (\$500)
2017	Florida Museum of Natural History Department of Natural History Travel Award (\$1,000)
2017	International Association for Plant Taxonomy, Research Grant (\$1,000)
2017	Society for the Study of Evolution, Rosemary Grant Graduate Student Research Award (\$2,340)
2016	Society of Systematic Biologists, Graduate Student Research Award (\$1,500)
2016	American Society of Plant Taxonomists, Graduate Research Award (\$750)
2016-2019	Natural Sciences and Engineering Research Council (NSERC) of Canada Postgraduate Scholarship – Doctoral (\$63,000 over 3 years)
2015-2016/ 2019-2022	University of Florida, Graduate Student Fellowship (\$25,000/year for 4 years)

AWARDS, HONOURS & SCHOLARSHIPS

2020	UF Department of Biology Graduate Student Service Award
2019	UF International Center Certificate of Excellence
2014	Top Student Award, MSc Biodiversity & Taxonomy of Plants
2013	Scotland Saltire Scholarship
2013	University of Edinburgh School of Biological Sciences Bursary Award
2010	UVic Melburn-Brenton Scholarship
2007-2010	UVic Renewable Excellence Scholarship

INVITED PRESENTATIONS

Jantzen, J.R., Freitas Oliveira, A.L., Soltis, D., and Soltis, P. 2020. Investigating geographic drivers of diversification in Neotropical *Tibouchina s.s.* (Melastomataceae). Presented at the Humboldt Symposium, UF Biodiversity Institute, University of Florida, Gainesville, FL, Feb 28, 2020.

Jantzen, J.R., Freitas Oliveira, A.L., Soltis, D., and Soltis, P. 2019. Using a phylogenomic approach to resolve the systematics and taxonomy of *Tibouchina s.s.* Presented at the Universidade Federal de Uberlândia, MG, Brazil, Oct 31, 2019.

Jantzen, J.R., Soltis, D., and Soltis, P. 2019. The role of xylopodia in the evolution of *Tibouchina s.s.* (Melastomataceae). Colloquium: Time to dig: the importance of underground storage organs in plant evolution. Presented at the Annual Meeting of the Botanical Society of America.

Jantzen, J.R., Whitten, W.M., Neubig, K.M., Majure, L.C., Soltis, D.E., and Soltis, P.S. 2018. Alternative taxon sampling and tree reconstruction strategies can affect patterns of phylogenetic diversity: Evidence from the Ordway-Swisher Biological Station. Symposium: Collaborations in Biodiversity Research, May 7, 2018.

CONTRIBUTED PRESENTATIONS & POSTERS

Oral Presentations

Jantzen, J.R., Freitas Oliveira, A.L., Soltis, D., and Soltis, P. 2019. Using a phylogenomic approach to resolve the systematics and taxonomy of *Tibouchina s.s.* Presented at the Annual Meeting of the Botanical Society of America.

Jantzen, J.R., Whitten, W.M., Neubig, K.M., Majure, L.C., Soltis, D.E., and Soltis, P.S. 2018. Alternative taxon sampling and tree reconstruction strategies can affect patterns of phylogenetic diversity: Evidence from a case study in Florida. Presented at the Annual Meeting of the Botanical Society of America.

Jantzen, J.R., Whitten, W.M., Neubig, K.M., Majure, L.C., Soltis, D.E., and Soltis, P.S. 2017. Patterns of phylogenetic diversity based on alternative taxonomic sampling and tree reconstruction strategies: a case study from Florida. Presented at the Annual Meeting of the Botanical Society of America.

UNDERGRADUATE MENTORING

2019	Bruna Gentiles, 2 nd year, Universidade Federal de Uberlândia (Oct 2019-present) Chromosome counts (cytology) in <i>Tibouchina s.s.</i>
2019	Cecilia Novais, 2 nd year, Universidade Federal de Uberlândia (Oct 2019-present) Chromosome counts (cytology) in <i>Tibouchina s.s.</i>
2019	Anthony Portugues, 1 st year, University of Florida (Jun 2019-Dec 2019) Morphology of underground organs in <i>Tibouchina s.s.</i>
2019	Alina Alvarez, 2 nd year, University of Florida (Apr 2019-present) Using machine learning to understand phenology in <i>Tibouchina s.l.</i>
2019	Nhi Doan, 1 st year, University of Florida (Apr 2019-present) Using machine learning to understand phenology in <i>Tibouchina s.l.</i>
2018	Gabriel Leme, Santa Fe College (Nov 2018-Feb 2019) Functional traits – measuring SLA for silica dried plant tissue

WORKSHOPS PRESENTED

“Using Digitized Herbarium Data in Research: A Crash Course”: iDigBio/BiotaPhy workshop presented at Annual Botanical Society of America conferences

2017 + 2018	Developed and presented “Community Phylogenetics” Module
2016	Assisted with workshop presentation and activities

PROFESSIONAL DEVELOPMENT EXPERIENCE

2018	“How to prepare your data for publication, and what to do with open data” Presented by Canadensys and iDigBio in Vancouver, Canada (Nov 7-9)
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RESEARCH INTERESTS

Plant systematics and evolution; species boundaries; origins of plant diversity and endemism; molecular systematics; biodiversity informatics; biogeography; *campos rupestres*; collections-based research; community phylogenetics

SERVICE & OUTREACH

Departmental Service

2019-present	Founding member of FLMNH Natural History Collections Club and Student Group
2019-2020	Biology Graduate Student Association: President
2019-2020	Graduate representative on Mentorship Committee
2018-2020	Established and coordinated BGSA Writing Group
2018-2020	Member of BGSA Mental Health Committee
2018-2019	Biology Graduate Student Association: Vice-President
2017-2018	Biology Graduate Student Association: Faculty Recruitment Coordinator
2016-2017	Biology Graduate Student Association: Seminar Committee Member

Society Service

2019-present ASPT Collections Committee – Student Representative
2019-2020 Member of organizing committee for SSB2020
2019 Contributor to BSA Student Newsletter

Community Outreach

2017-2019 Girls Who Code Club, Facilitator – Eastside High School, Gainesville, FL
Instructor for local high school club which meets once a week
2018 WeDigBio volunteer – Florida Museum, Gainesville, FL
Demonstrated and supervised public participation in Notes from Nature activity
2017, 2018 She’s a Scientist outreach event – Florida Museum, Gainesville, FL
Event for Girl Scouts: assisted girls with plant- and evolution-based activities

MEMBERSHIP IN PROFESSIONAL SOCIETIES

2019 Society for the Preservation of Natural History Collections
2017-present Society of Herbarium Curators
2017-present International Association for Plant Taxonomy
2017-present Society for the Study of Evolution
2017-2019 Torrey Botanical Society
2016-present American Society of Plant Taxonomists
2016-present Botanical Society of America
2016, 2019-present Society of Systematic Biologists