

## **FABIAN ARMANDO MICHELANGELI**

Institute of Systematic Botany  
The New York Botanical Garden  
2900 Southern Blvd.  
Bronx, NY 10458-5126  
(updated December 2023)

e-mail: [fabian@nybg.org](mailto:fabian@nybg.org)

Phone: (718) 817-8199

Webpage: <https://www.nybg.org/person/fabian-michelangeli/>

OrcidID: <https://orcid.org/0000-0001-7348-143X>

### **EDUCATION**

Ph. D. L. H. Bailey Hortorium. Cornell University. January 2000. Dissertation Title: Evolution, Ecology and Systematics of the myrmecophytic genus *Tococa* Aublet (Melastomataceae). Advisor: Eloy Rodriguez. Co-Advisor: Melissa Luckow.

Licenciado en Biología, *Magna cum laude*, Mención Ecología (Bachelor in Biology, *Magna cum laude*, Minor: Ecology). Universidad Central de Venezuela, December 1993. Thesis: Algunos Aspectos Ecológicos de un Litobioma del Roraima Tepuy (Some Ecological Aspects of the lithobiomes of the Roraima Tepuy). Advisor: Luís Bulla.

### **WORK AND RESEARCH EXPERIENCE**

February 2023-present. Director, Institute of Systematic Botany, The New York Botanical Garden.

November 2019-Present. Abess Curator of Tropical Botany. Institute of Systematic Botany, The New York Botanical Garden.

April 2017-October 2019. Curator. Institute of Systematic Botany, The New York Botanical Garden.

October 2010-March 2017. Associate Curator. Institute of Systematic Botany, The New York Botanical Garden.

June 2004-October 2010. Assistant Curator. Institute of Systematic Botany, The New York Botanical Garden.

September 2002 to June 2004. Research Associate, Cullman Program for Molecular Systematic Studies, The New York Botanical Garden.

August 2000 to August 2002. Cullman Postdoctoral Fellow, Department of Ornithology, American Museum of Natural History.

February 2000-July 2000. Postdoctoral Associate, L.H. Bailey Hortorium, Department of Plant Biology, Cornell University.

January 1996-August 1997. Research Assistant. Laboratory of Phytochemistry and Plant-Animal Interactions, L.H. Bailey Hortorium. Cornell University. Instructor for the MIRT-NIH program.

September 1994-December 1994. Research Assistant. Laboratory of Phytochemistry and Plant-Animal Interactions (Dr. Eloy Rodriguez), L.H. Bailey Hortorium. Cornell University.

February 1994-July 1994. High School Teacher (senior Biology). Colegio Emil Friedman, Caracas, Venezuela.

March 1993-October 1993. Researcher, Spectacled Bear Project. Provita, Caracas, Venezuela.

October 1992-July 1993. Proposal for a Tourist Trail in the summit of Roraima Tepuy, Canaima National Park, Venezuela. Work sponsored by the Terramar Foundation, for INPARQUES (Venezuelan National Institute of Parks). Co-authored with Francisco F. Herrera.  
August 1991-September 1991. Laboratory Internship in the Toxicology and Phytochemistry Laboratory, University of California Irvine.

### **ADJUNT POSITIONS**

City University of New York, Graduate Center. Doctoral Faculty, Biology Program, Plant Sciences sub-program. 2005-Present  
City University of New York, Graduate Center. Doctoral Faculty, Biology Program, Ecology and Evolutionary Biology sub-program. 2019-Present  
Yale University, School of the Environment (former School of Forestry and Environmental Studies), Adjunct Professor. 2020-present.  
Yale University, School of Forestry and Environmental Studies. Adjunct Assistant Professor. 2006-2020.

### **OTHER ACTIVITIES**

Botanical Review, Associate Editor, August 2022–present.  
Brittonia, Associate Editor. November 2015–present, October 2004–December 2012.  
Molecular Systematics and Evolution. Guest Associate Editor, Special Issue on the Atlantic Forest. 2019-2020.

### **GRANTS, FELLOWSHIPS, AND AWARDS**

National Science Foundation (FAIN- 2054684). EAGER: Artificial Intelligence (AI) to accelerate plant species discovery. Damon P. Little, Fabián A. Michelangeli, Barbara Ambrose, Kim Watson. May 15th 2021-April 30<sup>th</sup> 2023.  
National Science Foundation (DEB-2001357). Collaborative Research: Resolving the relationships of Melastomataceae, one of the world's most diverse flowering plant radiations. Collaborative proposal with Lucas C. Majure, Nico Cellinese and Walter S. Judd (University of Florida). August 1<sup>st</sup> 2020-July 31<sup>st</sup> 2024.  
National Science Foundation (DBI-1828479). MRI Acquisition-Advancing plant and fungal research at NYBG with a modern Scanning Electron Microscope. Barbara Ambrose, Damon Little & Fabian A. Michelangeli. October 1<sup>st</sup> 2018-September 30<sup>th</sup> 2021.  
Richard Lounsbery Foundation. A new era: Cuban/U.S. collaboration in biodiversity science. July 2016-June 2020.  
National Science Foundation (IAA-1444192). CNIC-Evolution of Functional Traits in the Melastomataceae. Collaborative proposal with Ned Fetcher (Wilkes University), Frank Almeda (California Academy of Sciences) and Nathan Kraft (University of Maryland). January 2015–May 2016.  
Conselho Nacional de Desenvolvimento Científico e Tecnológico (CNPq: Brazil) (MCTI/CNPQ/Universal 457510/2014-5). Estudos micro e macroevolutivos em Melastomataceae do Brasil. Collaborative proposal with Renato Goldenberg as PI (Universidade Federal do Parana). January 2015–December 2016.  
National Science Foundation (DEB-1343612) Dimensions US-BIOTA-Sao Paulo: A multidisciplinary framework for biodiversity prediction in the Brazilian Atlantic forest hotspot. Collaborative proposal with Ana. C. Carnaval (City College of New York) as lead

PI and Michael. J. Hickerson (City College of New York), Kyle McDonald (City College of New York) and W. Wayt Thomas (NYBG) as Co-PIs. September 2013–August 2019.

National Science Foundation (DEB-1146409), Assessing phylogeny and biogeography in a megadiverse tropical plant family (Melastomataceae)”. Collaborative proposal with Darin S. Penneys (California Academy of Sciences) as PI, Frank Almeda and Peter Fritsch as co-PIs. June 2012– May 2015.

National Science Foundation (DEB-0818399), PBI: A complete web-based monograph of the tribe Miconieae (Melastomataceae). Collaborative proposal with Frank Almeda (California Academy of Sciences), Walter Judd (University of Florida), Renato Goldenberg (Universidade Federal de Paraná), and Melissa Tulig (NYBG) as co-PIs. April 2009– March 2018 [no-cost extension].

ECAT-GBIF, MelList, a complete taxonomy of Melastomataceae sensu lato (Myrtales, eurosids, flowering plants) for the Electronic Catalogue of Names of Known Organisms. Collaborative proposal with S. S. Renner (Munich Botanical Garden), F. Almeda (California Academy of Sciences), C. Ulloa (Missouri Botanical Garden), R. Goldenberg (Universidade Federal de Parana, Brazil) & H. Mendoza-Cifuentes (Instituto Humboldt, Colombia). March 2006–March 2007.

National Science Foundation (DEB-0515665), A phylogenetic analysis of Miconieae (Melastomataceae) based on molecular and morphological characters. Collaborative proposal with Walter Judd (University of Florida) and Renato Goldenberg (Universidade Federal de Parana) as co-PIs. August 2005–July 2009.

Cullman Postdoctoral Fellowship for Animal-Plant interaction Studies. August 2000–August 2002.

Lewis B. and Dorothy Cullman Program for Molecular Systematic Studies, AMNH-NYBG Cornell University Graduate School Travel Grant. August, 1999.

American Society for Plant Taxonomists Graduate Research Award. May, 1998

Agricultural Experiment Station. College of Agriculture and Life Sciences. Cornell University. May, 1998. A.W. Mellon Student Research Grant.

L. H. Bailey Hortorium Moore/Mellon Foundation travel grant for field research in Venezuela. Summer 1997, winter 1997, summer 1996

Graduate Teaching Assistant award. College of Agriculture and Life Sciences. Cornell University. May 1996

Terramar Foundation Fellowship for undergraduate research. Oct 1992–July 1993

#### **PEER REVIEWED PUBLICATIONS (journals and book chapters)**

Angulo, J., J. M. Burke & **F. A. Michelangeli**. 2023. Characterizing the frequency, distribution, and morphological gradient of dioecy in *Miconia*. International Journal of Plant Sciences. <https://doi.org/10.1086/729063>

Bécquer, E. R., **F. A. Michelangeli** & W. Carmenate. *Miconia rosalinae*, una nueva especie de Melastomataceae (Miconieae), y el clado “*Miconia decorticans*” en Cuba. Revista del Jardín Botánico Nacional 44: 181-194. <https://revistas.uh.cu/rjbn/article/view/8322>

Majure, L. C., L. F. Bacci, E. R. Bécquer, W. S. Judd, T. Clase, J. D. Skea, Jr., & **F. A. Michelangeli**. 2023. Biogeography and diversification of the Caribbean Clade of *Miconia* (Melastomataceae): a Cuban origin underlies one of the largest Antillean radiations. Biological Journal of the Linnean Society 140: 376-396. <https://doi.org/10.1093/biolinnean/blad048>

- Goldenberg, R., **F. A. Michelangeli**, J. K. Ziemmer & A. M. Amorim. 2023. *Miconia dianae* (Melastomataceae), a new species from Bahia (Brazil) with notes on leaf and hypanthium surfaces. *Brazilian Journal of Botany* 46: 913-923. <https://doi.org/10.1007/s40415-023-00932-6>
- Angulo, J. C. & **F. A. Michelangeli**. 2023. *Miconia burkeae* (Melastomataceae), a new dioecious tree from the montane forests of the Peruvian Andes 75: 411-418. *Brittonia*. <https://doi.org/10.1007/s12228-023-09759-7>
- Fernandez Hilario, R., R. Goldenberg & **F. A. Michelangeli**. 2023. A synopsis of *Meriania* (Melastomataceae: Merianieae) in Peru. *Phytotaxa* 606: 1-101. <https://doi.org/10.11646/PHYTOTAXA.602.1.1>
- Penneys, D. S., **F. A. Michelangeli**, W. S. Judd, F. Almeda & R. D. Stone. 2023. (2961) Proposal to conserve *Bellucia*, nom. cons., against the additional names *Myriaspora* and *Loreya* (Melastomataceae: Henrietteae). *Taxon* 72: 669-670. <https://doi.org/10.1002/tax.12969>
- Goldenberg, R., Jesus, J. C., N. Roque & **F. A. Michelangeli**. 2023. *Pterolepis xaxa* (Melastomataceae, Melastomataceae), a new, haplostemonous species from Bahia, Brazil. *Brittonia* 75:300-303. [published online 06/08/2023] <https://doi.org/10.1007/s12228-023-09747-x>
- Michelangeli, F. A.** 2023. A new species of *Boyania* (Melastomataceae) from Guyana. *Rheedea* 38: 288-294. <https://doi.org/10.22244/rheedea.2022.32.04.04>
- Mercier, K. P., M. M. Vasconcellos, E. G. A. Martins, J. R. Pirani, **F. A. Michelangeli** & A. C. Carnaval. 2023. Linking environmental stability with genetic diversity and population structure in two Atlantic Forest palm trees. *Journal of Biogeography* 50: 197-208. <https://doi.org/10.1111/jbi.14523>
- Bécquer, E. R, T. Bochorny, M. Gavrutenko & **F. A. Michelangeli**. 2022. A revision of the “basal–axial placentation clade” of Miconieae, the newly erected *Miconia* section *Liogieria* (Melastomataceae: Miconieae) from the Greater Antilles. *Willdenowia* 52: 387-432. <https://doi.org/10.3372/wi.52.52307>
- Bochorny T., L. F. Bacci, M. Reginato, T. Vasconcelos, **F. A. Michelangeli** & R. Goldenberg. 2022. Similar diversification patterns in “sky islands”: a comparative approach in lineages from campo rupestre and campo de altitude. *Perspectives in Plant Ecology, Evolution and Systematics* 57: 125700. <https://doi.org/10.1016/j.ppees.2022.125700>
- Ulloa Ulloa, C., Almeda, F., Goldenberg, R., Kadereit, G., **Michelangeli, F. A.**, Penneys, D. S., Stone, R. D., Veranso-Libalah, M. C. 2022. Melastomataceae: Global Diversity, Distribution, and Endemism. Ch.1. In: Goldenberg, R., **Michelangeli, F. A.** & Almeda, F. (eds). *Systematics, Evolution, and Ecology of Melastomataceae*. Pp. 3-28. Springer. [https://doi.org/10.1007/978-3-030-99742-7\\_1](https://doi.org/10.1007/978-3-030-99742-7_1)
- Judd, W. S., Majure, L. C., **Michelangeli, F. A.**, Goldenberg, R., Almeda, F., Penneys, D. S., Stone, R. D. 2022. Morphological variability within Melastomataceae (Myrtales), including a discussion of associated terminology. Ch 3. In: Goldenberg, R., **Michelangeli, F. A.** & Almeda, F. (eds). *Systematics, Evolution, and Ecology of Melastomataceae*. Pp 45-85. Springer. [https://doi.org/10.1007/978-3-030-99742-7\\_3](https://doi.org/10.1007/978-3-030-99742-7_3)
- Reginato, M., Almeda, F., **Michelangeli, F. A.**, Goldenberg, R., Fritsch, P. W., Stone, R. D., Penneys, D. S. 2022. Historical biogeography of Melastomataceae. Ch. 4. In: Goldenberg, R., **Michelangeli, F. A.** & Almeda, F. (eds). *Systematics, Evolution, and Ecology of Melastomataceae*. Pp. 87-105. Springer. [https://doi.org/10.1007/978-3-030-99742-7\\_4](https://doi.org/10.1007/978-3-030-99742-7_4)

- Penneys, D. S., Almeda, F., Reginato, M., **Michelangeli, F. A.**, Goldenberg, R. Fritsch, P. W., Stone, R. D. 2022. A new Melastomataceae classification informed by molecular phylogenetics and morphology. Ch. 5. In: Goldenberg, R., **Michelangeli, F. A.** & Almeda, F. (eds). Systematics, Evolution, and Ecology of Melastomataceae. Pp 109-165. Springer. [https://doi.org/10.1007/978-3-030-99742-7\\_5](https://doi.org/10.1007/978-3-030-99742-7_5)
- Michelangeli, F. A.**, Nicolas, A. N., Ocampo, G., Goldenberg, R., Almeda, F., Judd, W. S., Bécquer, E. R., Skean, J. D. jr., Caddah, M. K., Ionta, G. M., Penneys, D. S., Alvear, M., Majure, L. C. 2022. Why recognize Miconia as the only genus in tribe Miconieae (Melastomataceae)? Ch. 10. In: Goldenberg, R., **Michelangeli, F. A.** & Almeda, F. (eds). Systematics, Evolution, and Ecology of Melastomataceae. Pp 235-254. Springer. [https://doi.org/10.1007/978-3-030-99742-7\\_10](https://doi.org/10.1007/978-3-030-99742-7_10)
- Michelangeli, F. A.**, Dellinger, A. S., Goldenberg, R., Almeda, F., Mendoza-Cifuentes, H., Fernández-Fernández, D., Ulloa Ulloa, C., Penneys, D. S. 2022. Phylogenetics and taxonomy of the tribe Merianieae. Ch. 11. In: Goldenberg, R., **Michelangeli, F. A.** & Almeda, F. (eds). Systematics, Evolution, and Ecology of Melastomataceae. Pp. 255-573. Springer. [https://doi.org/10.1007/978-3-030-99742-7\\_11](https://doi.org/10.1007/978-3-030-99742-7_11)
- Bacci, L. F., Bochorny, T., Bisewski, G. C. A., Passos, L. S., **Michelangeli, F. A.**, Goldenberg, R. 2022. Systematics and climatic preferences of Bertolonieae and Trioleneae. Ch. 12. In: Goldenberg, R., **Michelangeli, F. A.** & Almeda, F. (eds). Systematics, Evolution, and Ecology of Melastomataceae. Pp 275-289. Springer. [https://doi.org/10.1007/978-3-030-99742-7\\_12](https://doi.org/10.1007/978-3-030-99742-7_12)
- Michelangeli, F. A.**, Murillo-Serna, J. S., Mendoza-Cifuentes, H. 2022. The Cyphostyleae, a small tribe rich in rare characters in the family. Ch. 14. In: Goldenberg, R., **Michelangeli, F. A.** & Almeda, F. (eds). Systematics, Evolution, and Ecology of Melastomataceae. Pp. 307-319. Springer. [https://doi.org/10.1007/978-3-030-99742-7\\_14](https://doi.org/10.1007/978-3-030-99742-7_14)
- Bochorny, T., Bacci, L. F., **Michelangeli, F. A.**, Almeda, F., Goldenberg, R. 2022. Systematics and evolution of tribe Pyramieae. Ch. 17. In: Goldenberg, R., **Michelangeli, F. A.** & Almeda, F. (eds). Systematics, Evolution, and Ecology of Melastomataceae. Pp. 359-371. Springer. [https://doi.org/10.1007/978-3-030-99742-7\\_17](https://doi.org/10.1007/978-3-030-99742-7_17)
- Ocampo, G., **Michelangeli, F. A.**, Penneys, D. S., Handley, V., González-Moreno, R., Herrera-Dimas, E., Almeda, F. 2022. Seed morphological features in Melastomataceae. Ch. 23. In: Goldenberg, R., **Michelangeli, F. A.** & Almeda, F. (eds). Systematics, Evolution, and Ecology of Melastomataceae. Pp. 491-531. Springer. [https://doi.org/10.1007/978-3-030-99742-7\\_23](https://doi.org/10.1007/978-3-030-99742-7_23)
- Michelangeli, F. A.**, Nicolas, A. N., Ocampo, G., Goldenberg, R., Almeda, F., Judd, W. S. Bécquer, E. R., Skean, J. D. jr., Kriebel, R., Sosa, K., Caddah, M. K., Ionta, G. M., de Santiago, J. R., Penneys, D. S., Alvear, D. M., Gavrutenko, M., Burke, J. M., Majure, L. C., Reginato, M. 2022. Historical Biogeography of the Neotropical Miconieae (Melastomataceae) reveals a pattern of progressive colonization out of lowland South America. Ch. 28. In: Goldenberg, R., **Michelangeli, F. A.** & Almeda, F. (eds). Systematics, Evolution, and Ecology of Melastomataceae. Pp. 629-644. Springer. [https://doi.org/10.1007/978-3-030-99742-7\\_28](https://doi.org/10.1007/978-3-030-99742-7_28)
- Bacci, L. F., Bochorny, T., Goldenberg, R., Caddah, M. K., Meyer, F. S., Reginato, M., **Michelangeli, F. A.** 2022. Colonization and diversification of Melastomataceae in the Atlantic Forest of South America. Ch. 30. In: Goldenberg, R., **Michelangeli, F. A.** &

- Almeda, F. (eds). Systematics, Evolution, and Ecology of Melastomataceae. Pp. 673-685. Springer. [https://doi.org/10.1007/978-3-030-99742-7\\_30](https://doi.org/10.1007/978-3-030-99742-7_30)
- Zhou, Q., J. Dai, C. Lin, W. Ng, T. Do, J. Wai, **F. A. Michelangeli**, M. Reginato, R. Zhou & Y. Liu. 2022. Out of chaos: Phylogenomics of Asian Sonerileae. *Molecular Phylogenetics and Evolution* 175:107581. <https://doi.org/10.1016/j.ympev.2022.107581>
- Miyaki, C.Y., F. W. Cruz, M. Hickerson, **F. A. Michelangeli**, R. Pinto-da-Rocha, W. W. Thomas, A. C. Carnaval. 2022. A multidisciplinary framework for biodiversity prediction in the Brazilian Atlantic Forest hotspot. *Biota Neotropica* 22(spe): e20221339. <https://doi.org/10.1590/1676-0611-BN-2022-1339>
- Leal, E., T. N. C. Vasconcelos, D. Tuberquia, M. Soto-Gomez, **F. A. Michelangeli**, R. C. Forzza & R. Mello-Silva. Phylogeny and historical biogeography of Cyclanthaceae (Pandanales), the Panama-hat family. *Taxon* 71: 963-980. <https://doi.org/10.1002/tax.12769>
- Caddah, M. K. J. Meirelles, E. K. Nery, D. F. Lima, A. N. Nicolas, **F. A. Michelangeli** & R. Goldenberg. 2022. Beneath a hairy problem: Phylogeny, biogeography, and morphology circumscribe the new *Miconia* supersection *Discolores* (Melastomataceae: Miconieae). *Molecular Phylogenetics and Evolution* 171: 107461. <https://doi.org/10.1016/j.ympev.2022.107461>
- Fernandez-Hilario, R., R. P. Rojas Gonzáles, R. Villanueva-Espinosa, L. Lajo, A. A. Wong Sato, D. Paredes-Burneo, L. Pillaca-Huacre, **F. A. Michelangeli** & R. Goldenberg. 2022. Nine new species and a new country record for *Meriania* (Melastomataceae) from Peru. *Willdenowia* 52: 39-74. <https://doi.org/10.3372/wi.52.52103>
- de Lutio, R., J. Y Park, K. A. Watson, S. D'Aronco, J. D. Wegner, J. J. Wieringa, M. Tulig, R. L. Pyle, T. J. Gallaher, G. Brown, G. Guymmer, A. Frank, D. Ranatunga, Y. Baba, S. J. Belongie, **F. A. Michelangeli**, B. A. Ambrose & D. P. Little. 2022. The Herbarium 2021 Half-Earth Challenge Dataset and Machine Learning Competition. *Frontiers in Plant Science*. <https://doi.org/10.3389/fpls.2021.787127>
- Murillo-Serna, J. S., **F. A. Michelangeli** & H. A. David-Higuita. 2022. *Alloneuron trinervium* (Melastomataceae: Cyphostyleae) a new species from Colombia. *Brittonia* 74: 43-52. <https://doi.org/10.1007/s12228-021-09680-x>
- Brazil Flora Group (BFG). 2022. Brazilian Flora 2020: Leveraging the power of a collaborative scientific network. *Taxon* 71: 178-198. <https://doi.org/10.1002/tax.12640>
- Bacci, L. F., M. Reginato, T. Bochorny, **F. A. Michelangeli**, A. A. Amorim & R. Goldenberg. 2022. Biogeographic breaks in the Atlantic Forest: evidence for Oligocene/Miocene diversification in *Bertolonia* (Melastomataceae). *Botanical Journal of the Linnean Society* 199:128-143. <https://doi.org/10.1093/botlinnean/boab099>
- Carmenate-Reyes, W. & **F. A. Michelangeli**. 2021. A checklist of *Henriettea* (Melastomataceae, Henrietteae) in the Antilles, with taxonomic notes and lectotypifications. *Brittonia* 73:410-421. <https://doi.org/10.1007/s12228-021-09678-5>
- Maurin, O., A. Anest, S. Bellot, E. Biffin, G. Brewer, T. Charles-Dominique, S. Dodsworth, N. Epitawalage, B. Gallego, A. Giaretta, R. Goldenberg, D. J.P. Gonçalves, S. Graham, P. Hoch, F. Mazine, Y. W. Low, C. McGinnie, **F. A. Michelangeli**, S. Morris, D. S. Penneys, O. A. Pérez Escobar, Y. Pillon, L. Pokorny, G. Shimizu, V. G. Staggemeier, A. Thornhill, K. W. Tomlinson, I. Turner, T. Vasconcelos, P. G. Wilson, A. R. Zuntini, W. J. Baker, F. Forest, E. Lucas. 2021. A nuclear phylogenomic study of the angiosperm order Myrtales, exploring the potential and limitations of the universal Angiosperms353 probe set. *American Journal of Botany* 108: 1087-1111. <https://doi.org/10.1002/ajb.1699>

- Goldenberg, R., & **F. A. Michelangeli**. 2021. A new species of *Macrocentrum* (Melastomataceae: Merianieae) from Pará, Brazil. *Rodriguesia* 72: e02382019. <https://doi.org/10.1590/2175-7860202172055>
- Dellinger, A., R. Pérez-Barrales, **F. A. Michelangeli**, D. S. Penneys, D. Fernández-Fernández, J. Schönenberger. 2021. Low bee visitation rates explain pollinator shifts to vertebrates in tropical mountains. *New Phytologist* 231: 864-877. <https://doi.org/10.1111/nph.17390>
- Versiane, A. F., R. Romero, M. Reginato, C. A. D. Welker, **F. A. Michelangeli** & R. Goldenberg. 2021. Phylogenetic analysis of Microlicieae (Melastomataceae), with emphasis on the re-circumscription of the large genus *Microlicia* D. Don. *Botanical Journal of the Linnean Society* 197: 35-60. <https://doi.org/10.1093/botlinnean/boab011>
- Paz, A., J. L. Brown, C. L.O. Cordeiro, J. Aguirre-Santoro, C. Assis, R. C. Amaro, T. Bochorny, L. F. Bacci, M. K. Caddah, F. d'Horta, M. Kaehler, M. Lyra, M. Reginato, K. L. Silva-Brandão, A. V. L. Freitas, R. Goldenberg, L. Lohmann, **F. A. Michelangeli**, C. Miyaki, M. T. Rodrigues, T. S. Silva, A. C. Carnaval. 2021. Environmental correlates of taxonomic and phylogenetic diversity in the Atlantic Forest. *Journal of Biogeography* 48: 1377-1391. <https://doi.org/10.1111/jbi.14083>
- Meyer, F. S., M. Reginato, E. C. Smidt, J. R. de Santiago Gomez, **F. A. Michelangeli** & R. Goldenberg. 2021. Phylogenetic relationships in *Brachyotum* and allies (Melastomataceae, Melastomateae): a reassessment of the limits of the genera. *Botanical Journal of the Linnean Society* 197: 170-189. <https://doi.org/10.1093/botlinnean/boab014>
- Bochorny, T., L. F. Bacci, A. Dellinger, **F. A. Michelangeli**, R. Goldenberg, V. Brito. 2021. Connective appendages in buzz-pollinated flowers: function and biomechanics in the stamens of *Huberia bradeana* (Melastomataceae). *Plant Biology* 23: 556-563. <https://doi.org/10.1111/plb.13244>
- Fernandez-Hilario, R., R. Goldenberg & **F. A. Michelangeli**. 2021. Taxonomic novelties in *Meriania* (Melastomataceae) from northern Peru. *Nordic Journal of Botany* 39: e02969. <https://doi.org/10.1111/njb.02969>
- Guimarães, P. J. F. & **F. A. Michelangeli**. 2021. Nomenclatural notes on Melastomateae (Melastomataceae). *Phytotaxa* 480: 94-96. <https://doi.org/10.11646/phytotaxa.480.1.10>
- Bacci, L. F., R. Goldenberg & **F. A. Michelangeli**. 2021. First reports of vivipary in Neotropical Melastomataceae. *International Journal of Plant Sciences* 182: 79-83. <https://doi.org/10.1086/711473>
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- Reginato, M.\* & **F. A. Michelangeli**. 2013. The diversity and evolution of flower morphology in *Leandra s.str.* (Melastomataceae, Miconieae). Botany 2013. New Orleans, LA. July 2013. Abstract # 374.
- Michelangeli, F. A.**, N. Tiernan\*, K. Watson & M. Tulig. 2013. The PBI Miconieae project website: towards complete web-based monograph of the tribe Miconieae (Melastomataceae). Botany 2013. New Orleans, LA. July 2013. Abstract # 689.
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- Aguirre-Santoro, J.\*, **F. A. Michelangeli** & D. W. Stevenson. 2013. Systematics and Biogeography of the Ronnbergia Clade (Bromeliaceae), a Case of Diversification Interconnecting Three Neotropical Biodiversity Hotspots. Monocots V. New York, NY. July 2013.
- Watson, K. A.\*, N. M. Tiernan\*, **F. A. Michelangeli** & M. Tulig. 2012. The PBI Miconieae project: A complete web-based monograph of the tribe Miconieae (Melastomataceae). The Society For The Preservation of Natural History Collections. Yale University, New Haven, CT. June 2012.
- Reginato, M\*. & **F. A. Michelangeli**. 2012. Biogeography of *Leandra* sensu stricto (Melastomataceae): geographical range expansions, extinctions and the amphitropical pattern. Botany 2012. Columbus, OH. July 2012.

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- Burke, J. M.\*, & **F. A. Michelangeli**. 2012. *Miconia galeiformis* and *Miconia neei*; (Miconieae:Melastomataceae), two new species from Bolivia. Botany 2012. Columbus, OH. July 2012. [poster].
- Michelangeli, F. A.**, F. Almeda, R. Goldenberg, W. S. Judd, E. R. Bécquer-Granados, J. D. Skean Jr., D. S. Penneys, G. Ocampo, G. Ionta, M. K. Caddah, R. Kriebel, M. Reginato & A. Nicolas. 2011. A Phylogenetic Analysis of the Tribe Miconieae (Melastomataceae) Based on DNA Sequence Data from Nuclear and Plastid Loci. XVIII International Botanical Congress, Melbourne, Australia, July 2011. [e-poster].
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- Kriebel, R.\*. & **F. A. Michelangeli**. 2011. Phylogeny of *Conostegia* (Melastomataceae) reveals multiple losses of herkogamy. Botany 2011. St. Louis, MO. July 2011.
- Michelangeli, F.A.** #, F. Almeda, R. Goldenberg, W. S. Judd, K. Watson, M. Tulig. 2010. El proyecto PBI Miconieae: avances para una monografía electrónica de la tribu Miconieae. X Congreso Latinoamericano de Botánica. La Serena, Chile. October 4-10, 2010.
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- Kriebel, R.\* & **F. A. Michelangeli**. 2010. A survey of floral symmetry and herkogamy in the tribe Miconieae (Melastomataceae). Botany 2010. Providence, Rhode Island, July 2010.
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- Michelangeli, F. A.** #, M. E. Morales, H. David, A. Amorim & R. Goldenberg. 2008. Phylogenetic position of the tribe Cyphostyleae and the genus *Physeterostemon* within the Melastomaceae: Understanding fruit evolution and homologies. XXVII Meeting of the Willi Hennig Society. Tucumán, Argentina, October 2008.
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- Michelangeli, F. A.** #, W. S. Judd, R. Goldenberg, D. S. Penneys, J. D. Skean Jr., C. V. Martin & E. R. Becquer. 2007. Análisis filogenético de la tribu Miconieae (Melastomataceae): ¿Caos polifilético o luz al final del túnel?. IV Congreso Colombiano de Botánica, April 2007, Medellín, Colombia.
- Martin, C. V., D. Little & **F. A. Michelangeli**. 2006. A preliminary phylogenetic analysis of the polyphyletic genus *Leandra* Raddi Miconieae, Melastomataceae. Botany 2006. Chico, CA, August 2006.
- Michelangeli F. A.** #, W. Judd, D. Penneys, J. D. Skean, E. R. Becquer, R. Goldenberg & C. V. Martin. 2006. La tribu Miconieae (Melastomataceae) en las Antillas: múltiples eventos de dispersión y radiación. IX Congreso Latinoamericano de Botánica. Santo Domingo, Republica Dominicana. 18-25 June 2006.
- Doria, G\*., L. Kelly & **F. A. Michelangeli**. 2006. Dientes teoides en Ericales: ¿Una sinapormorfía para el orden? IX Congreso Latinoamericano de Botánica. Santo Domingo, Republica Dominicana. 18-25 June 2006 [poster].
- Michelangeli, F. A.** #, R. Goldenberg, W. Judd, D. S. Penneys, C. V. Martin, J. D. Skean Jr, & E. Becquer. 2005. Estudos Filogenéticos em Miconieae (Melastomataceae). 56 Congresso Nacional de Botânica. Curitiba, Brasil. October 2005.
- Martin, C. V.\* & **F. A. Michelangeli**. 2005. A Preliminary Phylogenetic study of the polyphyletic genus *Leandra* (Miconieae: Melastomataceae), based on DNA sequence data. XVII International Botanical Congress. Vienna, Austria. July 2005. [poster].
- Michelangeli, F. A.** & D. Wm. Stevenson. 2004. Comparative morphology, anatomy and development of ant-domatia in Neotropical Melastomataceae. Botany 2004 August 2004, Snowbird, Utah.
- Penneys, D. S\*., **F. A. Michelangeli**, W. Judd & J. D. Skean Jr. 2004. Henrietteae, a new tribe of Neotropical Melastomataceae. Botany 2004. August 2004, Snowbird, Utah.
- Michelangeli, F. A.** 2004. Evolution of myrmecophytism in Neotropical Melastomataceae: cues from phylogenetic, and anatomical data. Meeting of the Association for Tropical Biology and Conservation. July 2004. Miami, Florida.
- Almeda, F., R. Goldenberg, **F. A. Michelangeli**, D. S. Penneys & S. S. Renner\*. 2003. Progress in *Miconia* (Melastomataceae): 1531 names, 1061 readily distinguishable entities.

- Systematics 2003. 4<sup>th</sup> Biennial Meeting of the Systematics Association. August 18-23, 2003. Dublin, Ireland.
- Petersen, G\*, O. Seberg, J. I. Davis, D. Wm. Stevenson, L. M. Campbell, J. V. Freudenstein, D. H. Goldman, C. R. Hardy, **F. A. Michelangeli**, M. P. Simmons & C. D. Specht. 2003. Mitochondrial data in monocot phylogenies. Monocots III/Grasses IV. March 2003. Rancho Santa Ana, California.
- Michelangeli, F. A.** # 2002. Integrando moléculas y morfología; iluminación recíproca en el estudio de la tribu Miconieae (Melastomataceae). III Congreso Latinoamericano de Botánica. October 2002, Cartagena, Colombia.
- Michelangeli, F. A.** 2002. Phylogenetic relationships in the Miconieae: Evidence from morphological and ITS sequence data. August 2002, Madison, Wisconsin.
- Michelangeli, F. A.**, J. I. Davis and D. Wm. Stevenson. 2002. Phylogenetic studies in the Poales: A combined analysis of morphological, sequence and chloroplast structure data. August 2002, Madison, Wisconsin.
- Michelangeli, F. A.** 2001. Fruit dispersal and character evolution in the Neotropical genus *Tococa* (Melastomataceae). Botany 2001, Botanical Society of America. August 2001, Albuquerque New Mexico (Abstracts).
- Davis, J. I\*., D. Wm. Stevenson, L. Campbell, D. Goldman, C. Hardy, **F. Michelangeli**, M. Simmons, and C. Specht 2001. Phylogenetic relationships among the monocots, as inferred from morphology and nucleotide sequence variation in three genes. Botany 2001, Botanical Society of America. August 2001, Albuquerque New Mexico (Abstracts).
- Michelangeli, F. A.** 2000. Ant-protection against herbivory and evolution of myrmecophytism in the genus *Tococa* (Melastomataceae). Botany 2000, Botanical Society of America. August 2000, Portland, Oregon (Abstracts).
- Michelangeli, F. A.** 1999. A morphological cladistic analysis of *Tococa* Aublet (Melastomataceae). XVI International Botanical Congress. 1-7 August 1999. Saint Louis, Missouri. [poster].
- Michelangeli F.A.** 1997. Systematics of the genus *Tococa*, Aublet (Melastomataceae). American Journal of Botany, 84 (6, supplement):217. (Abstract).
- Garcia, E.A.\*, **F.A. Michelangeli**, F. Michelangeli and E. Rodríguez. 1996. Ant-Plant Interactions in the understory Melastomataceae of two Neo-Tropical rain forests. XXIII Annual SACNAS Conference. Los Angeles. October 1996.
- Michelangeli F.A.** 1994. Some Ecological aspects of the Lithobiomes of the Roraima Tepui. 15th International Congress of Soil Science. Symposium on Soils and Biodiversity. Acapulco, México. Julio 1994.
- Michelangeli F.A.** 1993. Caracterización de Islas de Vegetación Sobre Roca en el Cerro Roraima, Edo. Bolivar II: Relaciones Especies-Area. XLIII Convención Anual de Asovac. 14 al 19 de Noviembre de 1993. U.L.A. Mérida.
- Michelangeli F.A.** 1993. Caracterización de Islas de Vegetación Sobre Roca en el Cerro Roraima, Edo. Bolivar I: Características Generales y Composición Florística. XLIII Convención Anual de Asovac. 14 al 19 de Noviembre de 1993. U.L.A. Mérida.
- Michelangeli F.A.**, and Z. Fernandez. 1992. Relación entre la Vegetación y Comunidades de Coleopteros de la Gran Sabana. XLII Convención Anual de Asovac. 15 al 20 de Noviembre de 1992, Facultad de Medicina, U.C.V. Caracas.

Herrera, A.M., **F. Michelangeli**, J. Nassar, J.P. Rodriguez\* and D. Torres. 1992. The Spectacled Bear of the Sierra Nevada National Park, Venezuela. *in*: Ninth International Bear Conference, Missoula, Montana. March 1992.

# invited symposium or round table.

\* presented by the indicated co-author.

### **INVITED TALKS (excluding meetings and congresses)**

- May 2022. Endemism and adaptations in the flora of the lost world. Smithsonian Botanical Symposium: Life on the Edge: Exceptional Plants in Exceptional Places.
- March 2021. Leveraging botanical specimens in biodiversity research: from alpha taxonomy to community patterns in Melastomataceae. Botany Seminars, a joint seminar of the section Systematics, Biodiversity & Evolution of Plants, the Botanische Staatssammlung München and the Botanical Garden München-Nymphenburg (delivered via web conference).
- March 2021. Taxonomy and Floristics of Melastomataceae: where are we and where are we going? Melastome virtual seminar. <https://melastomeseminars.weebly.com>
- September 2020. Colectas, colecciones y catálogos como bases de nuestro conocimiento de la biodiversidad. 1era. Reunión Científica de la Asociación para la Botánica del Perú. Virtual Meeting hosted by the Asociación para la Botánica del Perú.
- February 2020. Leveraging botanical specimens in biodiversity research: from alpha taxonomy to community patterns. Fordham University.
- October 2019. Patterns of diversity in Eastern Brazil using specimen locality data. Universidade Federal do Parana, Curitiba, Brazil.
- October 2019. Population and range dynamics of *Araucaria angustifolia*: a multidisciplinary approach. Universidade Federal do Parana, Curitiba, Brazil.
- January 2019. Taxonomía y Sistemática de la familia Melastomataceae en Perú. Taller Botánico: Resolviendo el nudo de la identificación botánica en parcelas permanentes. Oxapampa, Peru.
- March 2017. Specimens as the base of evolutionary biology research: lessons from Neotropical Melastomataceae. Rancho Santa Ana Botanical Gardens, Claremont, CA.
- May 2016. Monographic work in the 21st Century: Lessons from the Planetary Biodiversity Inventory Miconieae Project. Torrey Botanical Society. New York, NY.
- March 2016. Sistemática y taxonomía de la familia Melastomataceae en Peru. Oxapampa, Peru.
- February 2015. The assemblage of Neotropical Floras: a phylogenetic perspective. Tropical Biology Symposium. Fairchild Tropical Botanical Garden, Miami, FL [keynote speaker].
- February 2015. A phylogenetic perspective to an ecological question: The assemblage of Neotropical Floras. Bioforum 2015. UNICAMP, Campinas, Brazil.
- December 2013. The PBI-Miconieae Project: beyond alpha taxonomy and specimen data. Field Museum of Natural History. Chicago, IL.
- November 2013. Colaboración e integración en la carrera del botánico. Facultad de Biología, Universidad de La Habana, Cuba.
- November 2013. The PBI-Miconieae Project: beyond alpha taxonomy and specimen data. American Museum of Natural History, New York, NY.
- June 2012. Sistemática, biogeografía y evolución de la tribu Melastomeae en el Neotrópico. Museo de Historia Natural de la Universidad Nacional Mayor de San Marcos. Lima, Peru.

- March 2012. El proyecto PBI Miconieae. Ejemplo de un proyecto en equipo para la realización de una monografía electrónica. Museo de Historia Natural de la Universidad Nacional Mayor de San Marcos. Lima, Peru.
- December 2010. The role of field work in modern systematics; planes, trains and automobiles (plus other modes of transportation) in search of neotropical Melastomataceae. Torrey Botanical Society. New York, NY.
- November 2010. Integrating phylogenetic analyses, morphological evolution, and alpha taxonomy in Neotropical Melastomataceae. Wake Forest University, Winston-Salem, NC.
- June 2010. Sistemática y taxonomía de las Melastomataceae neotropicales. Instituto de Ciencias Naturales, Universidad Nacional de Colombia. Bogotá, Colombia,
- June 2010. Sistemática y taxonomía de las Melastomataceae neotropicales Universidad de Antioquia. Medellín, Colombia.
- August 2009. Avances en la sistemática y taxonomía de las Melastomataceae neotropicales. Fundación Instituto Botánico de Venezuela. Caracas, Venezuela.
- January 2009. Integrating phylogenetic analyses, evolution, and alpha taxonomy in the Melastomataceae. Rancho Santa Botanical Garden. Pomona, CA.
- February 2008. Evolution in Neotropical glory bushes (Melastomataceae): what have we learned from phylogenies? New Mexico State University, Las Cruces, NM.
- May 2007. Relaciones planta-hormiga en la familia Melastomataceae. Universidad Autónoma René Grabiél Moreno, Santa Cruz, Bolivia.
- November 2005. Combinando sistemática, anatomía y ecología en el estudio de la evolución. Departamento de Biología. Universidad de Carabobo. Valencia, Venezuela.
- April 2005. Evolution of Ant-Plant Relationships: Combining Phylogenetic, Anatomical and Ecological Data in Neotropical Melastomataceae. City College. City University of New York, New York, NY
- March 2005. Systematics of Miconieae, Melastomataceae, and the evolution of neotropical ant-plant relationships. Department of Plant Biology. Cornell University. Ithaca, NY
- February 2005. Evolution of Ant-Plant Relationships in Neotropical Melastomataceae: Combining Phylogenetic, Anatomical and Ecological Data. Lehman College. City University of New York, Bronx, NY
- November 2004. Evolution of biological defenses against herbivores. Florida International University. Miami, FL.
- October 2004. Ant-plant relationships in Neotropical Melastomataceae: combining phylogenetic, anatomical and ecological data. Harvard University Herbaria Seminar Series. Cambridge, MA.
- February 2004. Ecology and Evolution of ant-plant associations in *Tococa* (Melastomataceae). Fairchild Tropical Gardens Research Center. Coral Gables, FL.
- April 2003 Evolution of myrmecophytism: the history of plant animal interactions among melastomes and their ant inhabitants. Seminars in Systematic Biology series. American Museum of Natural History, New York, NY
- April 2002. Phylogenetics and character evolution in the myrmecophytic genus *Tococa*. Department of Botany, Field Museum of Natural History. Chicago, IL.
- January 2002. Biology, endemism and conservation of the Guayana Highlands. Columbus Science Center (COSI). Columbus, OH
- August 2001. Endemic biota of the Lost Worlds. New Mexico Museum of Natural History. Albuquerque, NM.

- February 2001. Systematics Ecology and Evolution of *Tococa* (Melastomataceae). Rutgers University. New Brunswick, NJ.
- June 2000. Relaciones planta-hormiga en las Melastomataceae. Instituto de Biología experimental. Facultad de Ciencias. Universidad Central de Venezuela. Caracas, Venezuela.
- April 1999. Evolución de Mirmecofitismo en *Tococa* Aublet (Melastomataceae): Un estudio Ecológico y Filogenético. Departamento de Ecología, Instituto Venezolano de Investigaciones Científicas. Caracas, Venezuela.

## **STUDENT AND POSTDOCTORAL ADVISING**

### **Ongoing**

- Advisor for Juan Angulo. Biotic and abiotic factors in speciation of Andean *Miconia* (Melastomataceae). Ph. D program in Biology, The Graduate Center, City University of New York & The New York Botanical Garden.
- Co-advisor for Wilder Carmenate Reyes. Sistemática y Taxonomía de *Henriettea* en las Antillas (Melastomataceae, Henrietteae). Ph. D. program, Universidad de la Habana, Havana, Cuba.
- Co-advisor for Jhon Steven Murillo-Serna. Master's program at the Universidad de Antioquia, Medellín, Antioquia, Colombia.
- Co-advisor for Robin Fernández Hilario. Sistemática e Taxonomía do clado *Meriania-Axinaea* (Melastomataceae). Ph. D. program. Universidade Federal de Paraná, Curitiba, Paraná, Brazil.
- Doctoral Committee member for: Natalia Quinteros (City University of New York, Graduate Center), Kathryn Mercier (City University of New York, Graduate Center), Luo Chen (Ludwig-Maximilians Universität München), Malu Ore Rengifo (University of Florida), Diego Paredes Burneo (Louisiana State University).
- Postdoctoral advisor for Léo-Paul Dagallier: March 2022-present.

### **Concluded Undergraduate Theses**

- Co-advisor for Jhon Steven Murillo Serna, undergraduate thesis in Biology. 2020. Sinopsis del género *Graffenrieda* DC. (Melastomataceae, Merianieae) en Colombia. Notas nomenclaturales, taxonómicas y geográficas. Universidad de Antioquia, Medellín, Colombia
- Advisor for Karla Sosa, Undergraduate Thesis, Columbia University, 2013. Androecium Evolution in a group of Neotropical plants: The Melastomeae (Melastomataceae).

### **Concluded MSc Theses**

- Co-advisor for Kate Samra. Master of Science, Plant & Fungal Taxonomy, Diversity & Conservation, 2023. A new species, synoptic checklist, and ecological analysis of anisophylly in the Neotropical tribe Trioleneae (Melastomataceae). Queen Mary University, London & Royal Botanic Gardens, Kew.
- Co-advisor for Robin A. Fernández Hilario. Master of Science, 2021. Revision of the genus *Meriania* (Melastomataceae) in Peru. Universidade Federal de Paraná, Curitiba, Brazil.
- Advisor for Maria Gavrutenko. Ms. Sc. 2018. Evolution of Floral Morphology and Symmetry in the Miconieae (Melastomataceae). The City College of New York.



Co-advisor for Támara Sandino, Ms. Sc. 2011. Anatomía y morfología comparada del desarrollo del ovario y fruto en la tribu Cyphostyleae (Melastomataceae), y su interpretación en un contexto filogenético. Universidad Nacional de Colombia, Bogotá.

### **Concluded PhD Theses**

Co-advisor for Lucas de Freitas Bacci. Ph. D. 2019. Filogenia molecular, biogeografía e evolução de *Bertolonia* (Melastomataceae: Bertoloniaceae). Universidade Estadual de Campinas & The New York Botanical Garden.

Co-advisor for Thuane Bochorny de Souza Braga. Ph. D. 2019. Filogenia, biogeografía e evolução do clado *Merianthera* e afins (Melastomataceae). Universidade Estadual de Campinas & The New York Botanical Garden.

Advisor for Julián Aguirre, Ph.D. 2015. Systematics and evolution of the Ronnbergia Alliance (Bromeliaceae): history of disjunct diversification in three biodiversity hotspots of the Neotropics. The Graduate Center, City University of New York & The New York Botanical Garden.

Co-advisor for Julia Meirelles. Ph. D. 2015. Filogenia de *Miconia* seção *Miconia* subseção *Seriatiflorae* e revisão taxonômica do clado albicans (Melastomataceae, Miconieae). Universidade Estadual de Campinas & The New York Botanical Garden.

Advisor for Ricardo Kriebel. Ph. D. 2014. Phylogeny, taxonomy and morphological evolution in *Conostegia* (Melastomataceae: Miconieae). The Graduate Center, City University of New York & The New York Botanical Garden.

Advisor for Marcelo Reginato. Ph. D. 2014. Systematics and evolution of *Leandra* s.str. (Melastomataceae: Miconieae). The Graduate Center, City University of New York & The New York Botanical Garden.

Co-advisor for Fabricio S. Meyer. Ph. D. 2016. Estudos Sistemáticos no clado de Brachyotum e gêneros aliados (Melastomataceae: Melastomeae). Universidade Estadual de Campinas & The New York Botanical Garden.

Co-advisor for Miriam Kaehler, Ph. D. 2011. “Revision, phylogeny, evolution and biogeography of *Lundia* DC. (Bignoniaceae, Bignoniaceae)”, Universidade de São Paulo & The New York Botanical Garden.

Co-advisor for Claire Martin, Ph. D. 2006. “Systematics and Taxonomy of *Leandra* (Melastomataceae), and revision of *Leandra* section *Tschudya*”, Musée Nationale Histoire Naturelle, Paris & Kade Fellow at The New York Botanical Garden.

### **Concluded Postdoctoral Advising**

Juan Carlos Penagos: March 2020-August 2022 (Co-advised with Simon Queenborough, Yale University).

Mariana D. Vasconcellos (June 2016-May 2019; Co-advised with Ana C. Carnaval, City College)

Marcelo Reginato (November 2014-October 2017)

Miriam Kaehler (August 2015- July 2016)

Janelle M. Burke (September 2011-August 2013)

Antoine Nicolas (July 2009-August 2011)

Paulo J. F. Guimaraes (December 2009-December 2010)

Renato Goldenberg (August 2006-February 2007)

Isabela G. Varasin (August 2006-February 2007).

**Doctoral Committee member for (defense date, University; Thesis title):**

Megan Sullivan (2023, Yale, Forestry and Environmental Sciences; Selective Logging Across Life Stages And Recovery Time In A Congo Basin Tropical Forest), Fernando Matos (2015, CUNY; Systematic Studies of *Elaphoglossum* section *Polytrichia*); Donald McClelland (2012, CUNY; Systematics and taxonomy of *Solanum* sections *Dunaliana* and *Irenosolanum* (Solanaceae)); Adriana Sanchez (2010, Wake Forest University; Evolutionary relationships in Polygonaceae with emphasis on *Triplaris*), Alejandra Vasco (2009, CUNY; Systematics and phylogeny of *Elaphoglossum* section *Lepidoglossa* (Dryopteridaceae); Ratnakar Vallabhaneni (2009, CUNY; Carotenogenesis in Maize Endosperm: Natural genetic variation as a tool for predictive metabolic engineering), Michael Sundue (2008, CUNY; Systematics of grammitid ferns (Polypodiaceae): Using a combined approach to resolve the circumscription of *Melopmene*, and portions of the polyphyletic genera *Lellingeria* and *Terpsichore*), Todd Osmudsson (2008, Columbia University; Systematic, biogeographical, and ecological perspectives on the diversity and conservation of microbial obligate symbionts, using mycorrhizal boletes (fungi) as exemplar taxa), Paola Pedraza (2007, CUNY; Systematics and phylogeny of the Andean blueberry *Disterigma* (Ericaceae: Vaccinieae)).

**External reviewer for the following doctoral dissertations:** Vinicius Lourenço Garcia de Brito, “Estratégia reprodutivas em Melastomataceae: estudos de caso com diferentes abordagens”, Universidade Estadual de Campinas, Brazil February 2015; Maria Eugenia Morales, “Análisis filogenético de *Huillaea* Wurdack (Melastomataceae) basado en datos morfológicos y moleculares”, Universidad Nacional de Colombia, Bogotá, Colombia. August 2010; Eldis Becquer-Granados, “Taxonomía y filogenia del genero *Pachyanthus* (Melastomataceae; Miconieae)”, Universidad de la Habana, Cuba, May 2008; Leif Schulman, “Taxonomy, Chorology, Speciation and Conservation in a Heterogeneous Amazonia: Case-studies in the Flowering-Plant Family Melastomataceae”, Turku University, Turku, Finland. August **2003**.

**External reviewer for the following Master of Science thesis:** Juliana Klostermann Ziemmer, Anatomia do caule do *Merianthera burlemarxii* Wurdack (Melastomataceae), Universidade Federal de Parana, 2016.

**Graduate student interns hosted at NYBG:** Marcelo Reginato (November-December 2009; M. Sc. 2009; Systematics and Taxonomy of *Pleiochiton* (Melastomataceae: Miconieae)), Universidade Federal do Parana; Maria Eugenia Morales (November-December 2009; Ph. D. 2010; Sistemática y Filogenética de *Cyphostyla* y *Allomaieta* (Melastomataceae)) Universidad Nacional de Colombia; Mayara K. Caddah (Jun 2010-Aug 2011; Ph. D. 2013; Estudos taxonômicos e filogenéticos em *Miconia* sect. *Discolor* (Melastomataceae, Miconieae)), Universidade Estadual de Campinas; Fernanda Santos Silva (2013-2014; Ph. D. 2015, Delimitação do complexo de táxons reófitos de *Dyckia* (Bromeliaceae-Pitcarnioideae)), Jardim Botânico de Rio de Janeiro; Maria Jose Reis da Rocha (Jul 2013-Feb 2014; Ph. D. 2015, Filogenia e taxonomia de Melastomeae: clado Marcetieae (Melastomataceae Juss.)), Universidade Federal de Minas Gerais, Belo Horizonte; Ana Paula Caetano (Sep-Nov 2013; Ph. D. 2014, Endotécio cristalífero em Melastomataceae), Universidade Estadual de Campinas; Rafaella Cardoso Ribeiro (Aug 2014-Mar 2015; Ph. D. 2016; Anatomy, evolution and dispersal fruit and seeds of Melastomataceae Juss.),

Universidade Federal de Minas Gerais, Belo Horizonte; Eduardo Leal (Aug 2016-Feb 2017; Ph. D. 2018; Systematics and Phylogenetics of Cyclanthaceae), Universidade de Sao Paulo; Laura Afonso (Sep. 2022-February 2023; Seed morphology and anatomy of Galipeeae, Rutaceae), Universidade de Sao Paulo, Riberão Preto; Matheus Colli-Silva (Sep. 2022-January 2023; Systematics and Taxonomy of *Theobroma* and *Herrania*, Malvaceae) Universidade de Sao Paulo; Beatriz Valente (Nov 2022-February 2023; Systematics and Taxonomy of the Oxmyeris clade, Miconieae, Melastomataceae) Escola Nacional de Botânica Tropical, Jardim Botânico do Rio de Janeiro.

**Undergraduate and High School Interns:** Evelyn Soh, Hunter College High School, Spring 2023; Sophia Scheumak, Taft School (high school), Summer 2021; Sereene Korzum, Fordham University (undergraduate), Fall 2017-Spring 2018; Crystal Garcia, The Lawrenceville School (high school), Summer 2016; Mariel Cruz, Universidad Pedagógica y Tecnológica de Colombia (undergraduate), Summer 2015; Estefania Montero, Universidad Central de Venezuela (undergraduate), Summer 2012; Karla Sosa, Columbia University (undergraduate), Spring 2012, Joanna Giza, Hunter College (undergraduate) Summer 2001-Winter 2002.

## **TEACHING EXPERIENCE**

Guest Lecturer. Seminar in Special Topics Bio79302, The Graduate Center, City University of New York. Fall 2023 (coordinated by Renuka Sankaran).

Guest Lecturer. Seminar in Special Topics Bio79302, The Graduate Center, City University of New York. Spring 2023 (coordinated by Amy Ikui and Renuka Sankaran).

Tropical Field Botany. Yale School of the Environment, Yale University. Spring 2023.

Workshop on Ecology and Taxonomy of insects and plants. Centre for the Study of Biological Diversity, University of Guyana. January 2023. (co-taught with Andrew Short [University of Kansas], Peter Willadsen [University of Kansas] and Jessica Ware [American Museum of Natural History]).

Vascular Plant Taxonomy (lecture and lab), The Graduate Center, City University of New York. Fall 2022 (Co-taught with Kate Armstrong).

Vascular Plant Taxonomy (lecture and lab), The Graduate Center, City University of New York. Fall 2019, 2009, 2007 (Co-taught with Larry Kelly).

Tropical Field Botany. School of Forestry and Environmental Studies, Yale University. Spring 2019, 2017, 2015, 2013, 2011, 2010, 2008, 2006 (Co-taught with Larry Kelly).

Pre-Congress course on Systematics and Taxonomy of Melastomataceae. IX Congreso Colombiano de Botánica. Villa de Leyva, Colombia. July, 2017 (organized by H. Mendoza, H. David and M. Posada).

How Flowering Plants Reproduce. 182 BOT 384. Adult Education, The New York Botanical Garden. October 2017.

Ants & Plants. Adult Education, The New York Botanical Garden. Spring 2015.

Systematics, Taxonomy and Evolution of Melastomataceae. UNICAMP. Brazil. February 2015. [week long intensive course taught with Renato Goldenberg]

Guest Lecturer, Course OTS-2007-18. Tropical Plant Systematics (Spanish), Organization for Tropical Studies, Costa Rica. June 2007.

Guest Lecturer, Course OTS-2006-9. Tropical Plant Systematics (English), Organization for Tropical Studies, Costa Rica. July 2006.

Plant Systematics. Graduate Center, City University of New York. Fall 2005. (coordinated by Larry Kelly).

Coordinator Course OTS-2005-18. Tropical Plant Systematics (Spanish), Organization for Tropical Studies, Costa Rica. June-July 2005.

Current Topics in Plant Systematics. Graduate Center, City University of New York. Spring 2005. (coordinated by Larry Kelly).

Tropical Field Botany (5 lectures and leader of a 11 day field trip to Costa Rica) . Yale University. Coordinated by Andrew Henderson Spring 2004.

Co-coordinator Course OTS-2003-18. Tropical Plant Systematics (Spanish), Organization for Tropical Studies, Costa Rica. June-July 2003.

Guest Lecturer, Course OTS-2002-9. Tropical Plant Systematics (English), Organization for Tropical Studies, Costa Rica. June 2002.

Guest Lecturer, Course OTS-2001-18. Tropical Plant Systematics (Spanish), Organization for Tropical Studies, Costa Rica. July 2001.

Teaching Assistant. Biogeography (BioPl 453). Cornell University. Fall 1999.

Teaching Assistant, Diversity of Life. (BioG 202). Cornell University. Fall 1998.

Teaching Assistant, Introductory Biology (104). Cornell University. Spring 1998.

Teaching Assistant, Introductory Biology (103). Cornell University. Fall 1997.

Instructor, MIRT-NIH-Cornell University Program. January 1997-August 1997.

Instructor, MIRT-NIH-Cornell University program. January 1996-August 1996.

Teaching Assistant, Tropical Plant Families. Cornell University. Fall 1995-Winter 1996.

Teaching Assistant, Plants and Civilization. Cornell University. Spring 1995.

High School Instructor (Biology for High School Seniors). Colegio Emil Friedman, Caracas. Feb-July 1994.

Teaching Assistant, Quantitative Ecology. U.C.V. March 1993-September 1993

Teaching Assistant, Evolution. U.C.V. September 1992-March 1993

Teaching Assistant, Sedimentology. U.C.V. March 1992-September 1992

Teaching Assistant, Genetics (laboratory). U.C.V. September 1991-March 1992

Teaching Assistant, Plant Ecology (laboratory). U.C.V. March 1991-September 1991

Teaching Assistant, Physical Chemistry. U.C.V. September 1990- March 1991

Teaching Assistant, Biostatistics. U.C.V. March 1990-September 1990

#### **OTHER PROFESSIONAL ACTIVITIES**

Scientific Advisor and On-Screen Scientist for the IMAX documentary “Lost Worlds. Life in the Balance”. Directed by Bayley Silleck. Produced by Primesco Productions (Montreal, QC). January 2000- May 2001.

Student representative to the council of the School of Biology. Universidad Central de Venezuela. January 1992-February 1994.

Student representative to the Curricular Commission, School of Biology, Universidad Central de Venezuela. October 1991- December 1993.

Member of the Board, Provita, Caracas, Venezuela (Provita is a Venezuelan NGO devoted to wildlife conservation, education and research). March 1991-March 1993.

#### **PROFESSIONAL SOCIETIES (Current and service provided)**

American Society for Plant Taxonomy (member of the nominations committee, 2010-2012, 2020-present; member of the financial committee 2012-2015; member of the awards committee 2013-2014; member of the membership committee 2017-2020)

Association for Tropical Biology and Conservation

Botanical Society of America (Chair of the Tropical Biology Section, 2007-2010)

International Association for Plant Taxonomy (Vice President, 2023-2029; Chair of Engler Medal in Silver selection committee 2019-present).

### **REVIEW SERVICES** (since 2016):

Journals: Acta Botánica Mexicana, American Journal of Botany, AoB Plants, Boletim de Botânica da Universidade de São Paulo, Botanical Journal of the Linnean Society, Brazilian Journal of Botany, Flora, Hoehnea, International Journal of Plant Sciences, Journal of Biogeography, Journal of Systematics and Evolution, Journal of the Botanical Research Institute of Texas, Kew Bulletin, Molecular Phylogenetics and Evolution, Nature Plants, Nordic Journal of Botany, PeerJ, Phytokeys, Phytotaxa, Plant Biology, Plant Systematics and Evolution, Plos One, Revista Brasileira de Botanica, Rheedea, Rodriguesia, South African Journal of Botany, Systematic Botany, Taxon.  
Grants and promotions: American Society of Plant Taxonomists Student Grants, Instituto Nacional de Pesquisas da Amazonia, National Geographic Society exploration grants, National Science Foundation (panelist and ad hoc reviewer), Smithsonian Institution, South African National Research Foundation.

### **OTHER SERVICE**

Member of the Plant Sciences sub-committee of the Graduate Center, City University of New York (2008-present).

Member of the ad-hoc Biology Graduate Faculty evaluation committee. Graduate Center, City University of New York (spring 2015, 2016).

### **FIELD WORK**

Argentina: 2008.

Bolivia: 2007.

Brazil: 2005, 2009, 2011, 2014 (two trips), 2015 (two trips), 2016, 2018, 2019 (two trips).

Colombia: 2010 (2 trips), 2017.

Costa Rica: 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2010, 2011, 2013, 2015, 2017, 2019, 2023.

Cuba: 2008, 2009, 2012, 2013.

Ecuador: 2018.

Guyana: 2014, 2023.

Peru: 1998, 2011, 2012 (two trips), 2016, 2017, 2018 (two trips), 2019, 2022, 2023

Puerto Rico: 2012.

Surinam: 2013.

Venezuela: More than 20 expeditions between 1992 and 2010.

### **General Public Talks**

Brazilian Biodiversity: Assessing Threats to Plants & Ecosystems. New York Botanical Garden. September 27, 2019.