Benjamin M. Torke

Curriculum Vitae, October 2024

Address and Contact Information

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Current Position

Curator, Division of Biodiversity and Evolution (formerly the Institute of Systematic Botany), The New York Botanical Garden (05 August 2024–present). Research: systematics, evolution, ecology, and conservation of Fabaceae, with particular emphasis on species-rich genera of tropical trees; speciation and community assembly in neotropical rainforest trees; floristics of the neotropics, with emphasis on the Amazon basin; species-based plant conservation.

Other Appointments

Adjunct Professor, Department of Biology, City University of New York (December 2008–present).

Member of the Corporation of the New York Botanical Garden, Bronx, NY (December 2008–present).

Member of the Board of the "Flora of the Guianas", a cooperative program of: Museu Paraense Emílio Goeldi, Belém; Botanischer Garten und Botanisches Museum Berlin-Dahlem, Berlin; Institut de Recherche pour le Développement, IRD, Centre de Cayenne, Cayenne; Department of Biology, University of Guyana, Georgetown; Herbarium, Royal Botanic Gardens, Kew; New York Botanical Garden, New York; Nationaal Herbarium Suriname, Paramaribo; Muséum National d'Histoire Naturelle, Paris; Nationaal Herbarium Nederland, Utrecht University branch, Utrecht, and Department of Botany, Smithsonian Institution, Washington, D.C. (January 2010–present).

Research Associate, Department of Botany, Academy of Natural Sciences, Philadelphia (September 2008–present).

Associate Curator, Institute of Systematic Botany, The New York Botanical Garden (April 2015–August 2024).

Assistant Curator, Institute of Systematic Botany, The New York Botanical Garden (August 2008–April 2015).

Education

Ph.D. (Evolution, Ecology and Population Biology), December 2006
Washington University and the Missouri Botanical Garden, St. Louis, MO.
Research: Systematics and evolutionary diversification of *Swartzia* (Leguminosae)
Mentors: Barbara A. Schaal & Peter H. Raven

M.S. (Environmental and Plant Biology), December 1997
Ohio University, Athens, OH
Research: Systematics of *Salvia* section *Ekmania* (Lamiaceae)
Mentor: Philip D. Cantino

B.S. (Biology), May 1994
Ball State University, Muncie, IN

Postdoctoral Experience

Postdoctoral Fellow (October 2006–August 2008), Laboratory for Molecular Systematics and Ecology, Academy of Natural Sciences, Philadelphia, PA. Research: Phylogeography of tropical rainforest trees.

Previous Professional Experience

Herbarium Curatorial Assistant, The New York Botanical Garden, Bronx, NY (February 1998–July 2000)

Herbarium Assistant, Ball State University, Biology Department, Muncie, IN (January–May 1994)

Student Conservation Association Volunteer Assistant to National Forest Botanist, Winema National Forest, Chiloquin District, Chiloquin, OR (1993, summer)

Teaching Experience

Guest Lecturer and Laboratory Instructor, Vascular Plant Taxonomy, BIOL 70605, 70606, Graduate Center of the City University of New York (course held at NYBG). Topic: gave lecture on Fabales and coordinated and co-taught associated lab session (September 18, 24, 2024).

Instructor, Plant Sciences Journal Club, Graduate Center of the City University of New York. Meeting topic: plant speciation (October 13, 2023).

Instructor, Adult Education, The New York Botanical Garden, Bronx, NY. Course: The Wonderful World of Legumes (June 10, 2016).

Graduate Teaching Assistant, Biology Department, Washington University, St. Louis, MO. Course: Biological Clocks (for biology majors) (2002).

Instructor of Record, Department of Environmental and Plant Biology, Ohio University, Athens, OH and Ohio University-Zanesville Campus, Zanesville, OH. Courses: Wildflowers, Plants and People (both for non-majors) (April–November 1997).

Teaching Assistant, Ohio University, Department of Environmental and Plant Biology, Athens, OH. Courses: Trees and Shrubs (for non-majors), Dendrology (for plant biology majors), Introductory Plant Biology (for plant biology majors), Plant Morphology (for graduate students and undergraduate plant biology majors), Plant Systematics (for graduate students and undergraduate plant biology majors) (September 1994–March 1997).

Research Funds Awarded

Torke, B. M. 2024. (01 January 2025–31 December 2026). Conserving threatened leguminous rain forest trees in the Middle Magdalena Valley of Colombia. Phase 1: Filling critical gaps in taxonomic knowledge. Franklinia Foundation: $49,947.

Torke, B. M. (PI) & Mansano, V. F. (01 May 2015–31 October 2020). Filling a critical gap in the sampling Amazonia plant diversity: Floristic inventory of the Tapajos National Forest and Amazonia National Park. National Science Foundation. DEB Core Programs, Biodiversity: Discovery and Analysis: $307,588.

Kallunki, J. A., **Torke, B. M.** (co-PI) & Tulig, M. (01 August 2010–31 July 2013). Catalogue of legume specimens in The New York Botanical Garden Herbarium, Part 2: The Barneby Digital Monograph and Specimem Catalogue. National Science Foundation. Biological Collections Cluster (DBI-0955567): $415,755.

Torke, B. M. (PI), Mansano, V. F., Secco, R., Silva, R. M. (2010). Building a botanical knowledge-base for science and conservation in Amazonia: botanical exploration and inventory in the interfluves of the Rio Tapajós Basin. National Geographic Society, Committee for Research and Exploration: $25,000.

Torke, B. M. (PI) & Mansano, V. F. (15 August 2009–31May 2012). REVSYS: A phylogenetic monograph of the species-rich neotropical tree genus *Swartzia* (Leguminosae). National Science

Foundation. Systematic Biology and Biodiversity Inventories Cluster (DEB-0918498): $135,000.

Torke, B. M. 2006. Diversification studies in the species-rich neotropical tree genus *Swartzia* (Leguminosae-Papilionoideae). Postdoctoral Fellowship in Molecular Systematics, Academy of Natural Sciences: $75000 salary, $22000 research expenses.

Torke, B. M. 2005. Leaflet anatomy and diversification in *Swartzia* (Leguminosae): integrating fossils and phylogeny. Deep Time Project: $1200.

Torke, B. M. 2005. Revisionary and monographic studies of *Swartzia* (Leguminosae). The Rupert Barneby Award, New York Botanical Garden: $1000.

Schaal, B. A. & **Torke, B. M.** 2003. Diversification in trees of the lowland neotropical rainforest, based on studies of the ubiquitous legume genus *Swartzia*. National Science Foundation. Doctoral Dissertation Improvement Grant (DEB-0309162), with additional funds for International Collaboration: $19,500.

Torke, B. M. 2001. Phylogenetic relationships and diversification in *Swartzia* (Fabaceae), based on DNA sequence data. American Society of Plant Taxonomists Research Grant for Graduate Students: $1000.

Torke, B. M. 2001. Phylogenetic relationships and diversification in *Swartzia* (Fabaceae), based on DNA sequence data. Botanical Society of America Karling Award: $500.

Torke, B. M. 1995. Systematics of *Salvia* section *Ekmania* (Labiatae). Ohio University John Houk Memorial Research Grant: $350.

Successfully Reviewed NSF Pre-Proposals (invited for full proposal)

Torke, B. M. & Mansano, V. F. submitted 23 January 2014. Preliminary Proposal: Filling a critical gap in the sampling of Amazonia plant diversity: Floristic inventory of the Tapajos National Forest and Amazonia National Park. National Science Foundation. DEB Core Programs, Biodiversity: Discovery and Analysis.

Torke, B. M. & Mansano, V. F. submitted 13 January 2013. Preliminary Proposal: Building a botanical knowledge base in south-central Amazonia: Floristic inventory of the Tapajos National Forest and Amazonia National Park. National Science Foundation. DEB Core Programs, Biodiversity: Discovery and Analysis.

Peer-reviewed Publications

Barbosa-Silva, R. G., **Torke B. M.** & Viana P. L. 2024. A new species of *Bonnetia* Mart. (Bonnetiaceae) from the Pantepui of South America. PhytoKeys 247: 55–65. (DOI: https://doi.org/10.3897/phytokeys.247.126950).

Bezerra, L. M. P. A., Cândido, E. S., De Vargas, W., **Torke, B. M.**, Lewis, G. P. & Fortuna Perez, A. P. 2024. Taxonomic revision of *Rhynchosia* Lour. (Leguminosae, Papilionoideae, Phaseoleae) in South America. Phytotaxa 643(1): 1–67. (DOI: https://doi.org/10.11646/phytotaxa.643.1.1).

Sousa da Silva, G., **Torke, B. M.** & Mansano, V. F. 2023. *Alexa duckeana* (Leguminosae-Papilionoideae): a new species from the Brazilian Amazon. Phytotaxa 629: 255–265. (DOI: https://doi.org/10.11646/phytotaxa.629.3.7).

Souza Gregório, B. de, Carvalho, C. S., Stirton, C. H., Povydysh, M., **Torke, B. M.**, Ramos, G., Rocha, L., Lima, H. C., Zartman, C. E., Lewis, G. P. & Cardoso, D. B. O. S. 2023. A molecular phylogeny of the early-branching Genistoid lineages of papilionoid legumes reveals a new Amazonian genus segregated from *Clathrotropis*. Botanical Journal of the Linnean Society (Advanced Access): 1–14. (DOI: https://doi.org/10.1093/botlinnean/boad059).

Velásquez-Puentes, F. J., **Torke, B. M.**, Barratt, C. D., Dexter, K. G., Pennington, T., Pezzini, F. F., Zizka, A., Onstein, R. E. 2023. Pre-adaptation and adaptation shape trait-environment matching

in the Neotropics. Global Ecology and Biogeography 2023;00:1–13. (DOI: https://doi.org/10.1111/geb.13730).

Gissi, D. S., **Torke, B. M.**, Tomazello-Filho, M. & Fortuna-Perez, A. P. 2023. A new species of *Stylosanthes* (Leguminosae - Papilionoideae) from the Chapada das Mesas National Park in Maranhão, Brazil. Brittonia 75: 191–201. (DOI: https://doi.org/10.1007/s12228-022-09724-w).

Falcão, M. J. de A., **Torke, B. M.**, Garcia, G. S., Silva, G. S. da & Mansano, V. de. F. 2023. Taxonomic revision of the neotropical genus *Martiodendron* (Fabaceae: Dialioideae). Phytotaxa 578: 11–56. (DOI: https://doi.org/10.11646/phytotaxa.578.1.2).

Tamayo-Cen, I., **Torke, B. M.**, López Contreras, J. E., Carnevali Fernández-Concha, G., Ramírez Morillo, I., Can Itza, L. L., Duno de Stefano, R. 2022. Revisiting the phylogeny and taxonomy of the Pithecellobium clade (Leguminosae, Caesalpinioideae) with new generic circumscriptions. *In:* Hughes CE, de Queiroz LP, Lewis GP (Eds) Advances in Legume Systematics 14. Classification of Caesalpinioideae Part 1: new generic delimitations. PhytoKeys 205: 279–298. (DOI: https://doi.org/10.3897/phytokeys.205.82728).

Falcão, M. J. F. de A., **Torke, B. M.** & Mansano, V. de F. 2022. A taxonomic revision of the Amazonian genus *Dicorynia* (Fabaceae: Dialioideae). Phytotaxa 554.1 (2022): 1–31. (DOI: https://doi.org/10.11646/phytotaxa.554.1.1).

The Brazilian Flora Group: Gomes-da-Silva, J. … with contributions by … **B. M. Torke**… 2022. Brazilian Flora 2020: Leveraging the power of a collaborative scientific network. Taxon 71: 178–198. (DOI: https://doi.org/10.1002/tax.12640).

Gissi, D. S., Seixas, D. P., Fortuna-Pereza, A. P., **Torke, B. M.**, Simon, M. F., Souza, G., Lewis, G. P., Rodrigues, T. M. 2022. Leaf and stem anatomy of the *Stylosanthes guianensis* complex (Aubl.) Sw. (Leguminosae, Papilionoideae, Dalbergieae) and its systematic significance. Flora 287: 151992, 9 pp. (DOI: https://doi.org/10.1016/j.flora.2021.151992).

Torke, B. M., D. Cardoso, H. Chang, S.-J. Li, M. Niu, R. T. Pennington, C. H. Stirton, W.-B. Xu, C. E. Zartman & K.-F. Chung. 2022. A dated molecular phylogeny and biogeographical analysis reveals the evolutionary history of the trans-Pacifically disjunct tropical tree genus *Ormosia* (Fabaceae). Molecular Phylogenetics and Evolution 166 (107329): 1–21. (DOI: https://doi.org/10.1016/j.ympev.2021.107329).

Setubal, R. B., Frasier, C. L., Molina, J., **Torke, B. M.**, Forzza, R. C. & Struwe, L. 2021. A toxic story: phylogeny and classification in *Strychnos* L. (Loganiaceae). Systematic Botany 46: 639–655. (DOI: https://doi.org/10.1600/036364421X16312067913444).

Oliveira, M. H. V. de, **Torke, B. M.** & Almeida, T. E. 2021. An inventory of the ferns and lycophytes of the Lower Tapajos River basin in the Brazilian Amazon reveals collecting biases, sampling gaps, and previously undocumented diversity. Brittonia 73: 459–480. (DOI: https://doi.org/10.1007/s12228-021-09668-7).

Afonso, E. A. L., Vasconcelos, S., **Torke, B. M.** & Viana, P. L. 2019. A taxonomic review of *Myriocladus* (Poaceae, Bambusoideae) in Brazil, including the description of a new species. Brittonia 71: 1–14. (DOI: https://doi.org/10.1007/s12228-018-9551-3).

The Brazilian Flora Group: Filardi, F. L. R., Barros, F. D., Baumgratz, J. F. A., Bicudo, C. E., Cavalcanti, T. B., Coelho, M. A. N., Costa, A. F., Costa, D. P., Goldenberg, R., Labiak, P. H. and Lanna, J. M. with contributions by … **Torke, B. M.** … , 2018. Brazilian Flora 2020: innovation and collaboration to meet Target 1 of the Global Strategy for Plant Conservation (GSPC). Rodriguésia, 69: 1513–1527. (DOI: https://doi.org/10.1590/2175-7860201869402).

Dexter, K. G., Lavin, M., **Torke, B. M.**, Twyford, A. D., Kursar, T. A., Coley, P. D., Drake, C., Hollands, R. & Pennington, R. T. 2017. Dispersal assembly of rain forest tree communities across the Amazon basin. Proceedings of the National Academy of Sciences 114: 2645–2650. (DOI: https://doi.org/10.1073/pnas.1613655114).

The Legume Phylogeny Working Group. Azani, N. … **Torke, B. M.** … et al. 2017. A new subfamily classification of the Leguminosae based on a taxonomically comprehensive phylogeny. Taxon 66: 44–77. (DOI: https://doi.org/10.5061/dryad.61pd6).

Pinto, R. B., Mansano, V. F., **Torke, B. M.** & de Azevedo Tozzi, A. M. G. 2017. On the "Cangaço" route: A new species of *Hymenaea* (Leguminosae) from the Brazilian Caatinga. Kew Bulletin (online first): DOI 10.1007/S12225-017-9713-6. (DOI: https://doi.org/10.1007/s12225-017-9713-6).

de Queiroz, L.P., São Mateus, W., Delgado-Salinas, A., **Torke, B. M.**, Lewis, G. P., Dorado, Ó., Ardley, J. K., Wojciechowski, M. F. and Cardoso, D. 2017. A molecular phylogeny reveals the Cuban enigmatic genus *Behaimia* as a new piece in the Brongniartieae puzzle of papilionoid legumes. Molecular Phylogenetics and Evolution 109: 191–202. (DOI: https://doi.org/10.1016/j.ympev.2017.01.001).

Cardoso, D., D. Harris, J., Wieringa, J. J., São-Mateus, W. M. B., Batalha-Filho, H., **Torke, B. M.**, Prenner, G. & Paganucci de Queiroz, L. 2017. A molecular-dated phylogeny and biogeography of the monotypic legume genus *Haplormosia*, a missing African branch of the otherwise American-Australian Brongniartieae clade. Molecular Phylogenetics and Evolution 107: 431–442. (DOI: https://doi.org/10.1016/j.ympev.2016.12.012).

Mansano, V. F., Azevedo Falcão Jr., M. J. de & **Torke, B. M.** 2016. *Swartzia hilaireana* (Leguminosae), an "old" new species from the state of Minas Gerais, Brazil. Phytotaxa, 253: 156–160. (DOI: https://doi.org/10.11646/phytotaxa.253.2.5).

Pinto R. B., Mansano, V. F., **Torke, B. M.** & Forni-Martins, E. R. 2015. Evidence for a conserved karyotype in *Swartzia* (Fabaceae): implications for the taxonomy and evolutionary diversification of a species-rich Neotropical tree genus. Brittonia 68: 93–101. (DOI: https://doi.org/10.1007/s12228-015-9395-z).

The Brazil Flora Group (Compiled by D. C. Zappi et al., with contributions by….. **Torke, B. M.**). 2015. Growing knowledge: an overview of seed plant diversity in Brazil. Rodriguesia 66 (4): 1–29. (DOI: https://doi.org/10.1590/2175-7860201566411).

Torke, B. M., L. K. Ruiz Bohórquez, D. J. Tuberquia M. & V. F. Mansano. 2015. Miscellaneous additions to *Swartzia* (Fabaceae) from Chocoan and Andean Colombia. Brittonia 67: 298–310. (DOI: https://doi.org/10.1007/s12228-015-9382-4).

Cardoso, D. B. O. S., Stirton, C. H. & **Torke, B. M.** 2014. Taxonomy of South American *Ormosia* (Leguminosae, Papilionoideae): Recircumscription of *O. costulata*, reinstatement of *O. trifoliolata*, and the new species *O. lewisii* from the Brazilian Atlantic Forest. Systematic Botany 39: 1132–1141. (DOI: https://doi.org/10.1600/036364414X683903).

Torke, B. M. & Pérez, A. J. 2013. Notes on the genus *Swartzia* (Leguminosae) in Ecuador, with descriptions of two new species. Phytotaxa 147: 13–25. (DOI: https://doi.org/10.11646/phytotaxa.147.1.2).

The Legume Phylogeny Working Group: Borges, L. … **Torke, B. M.** … 2013. Towards a new classification system for legumes: Progress report from the 6th International Legume Conference. South African Journal of Botany 89: 3–9. (DOI: https://doi.org/10.1016/j.sajb.2013.07.022).

Moura, T. M., Mansano, V. F., **Torke, B. M.**, Lewis, G. P. & Tozzi, A. M. G. A. 2013. A taxonomic revision of *Mucuna* (Leguminosae - Papilionoideae - Phaseoleae) in Brazil. Systematic Botany 38: 631–637. (DOI: https://doi.org/10.1600/036364413X670458).

Torke, B. M. & Mansano, V. F. 2013. Increments to *Swartzia* (Leguminosae) from the southern Amazonian Craton. Kew Bulletin 68: 269–284. (DOI: https://doi.org/10.1007/s12225-013-9442-4).

The Legume Phylogeny Working Group: Bruneau, A.,… **Torke, B. M.**….. 2013. Legume phylogeny and classification in the 21st century: progress, prospects and lessons. Taxon 62: 217–248. (DOI: https://doi.org/10.12705/622.8).

Moura, T. M., **Torke, B. M.**, Mansano, V. F. & Tozzi, A. M. G. A. 2012. A new combination for an endemic Hawaiian species of *Mucuna* (Leguminosae: Papilionoideae), with a key to the Hawaiian taxa of the genus. Kew Bulletin 67: 1–5. (DOI: https://doi.org/10.1007/s12225-012-9411-3).

Moura, T. M., Zamora, N. A., **Torke, B. M.**, Mansano, V. F. & Tozzi, A. M. G. A. 2012. A new species of *Mucuna* (Leguminosae-Papilionoideae-Phaseoleae) from Costa Rica and Panama. Phytotaxa 60: 1–8. (DOI: https://doi.org/10.11646/phytotaxa.60.1.1).

Pinto, R. B., **Torke, B. M.** & Mansano, V. F. 2012. Updates to the taxonomy of *Swartzia* (Leguminosae) in extra-Amazonian Brazil, with descriptions of five new species and a regional key to the genus. Brittonia 64: 119–138. (DOI: https://doi.org/10.1007/s12228-011-9219-8).

Torke, B. M. & Zamora, N. A. 2010. Notes on *Swartzia* (Leguminosae) in Central America preliminary to the Flora Mesoamericana, with descriptions of two new species from Costa Rica. Brittonia 62: 222–232. (DOI: https://doi.org/10.1007/s12228-009-9122-8).

Torke, B. M. & Mansano, V. de F. 2009. A phylogenetically based sectional classification of *Swartzia* (Leguminosae-Papilionoideae). Taxon 58: 913–924. (DOI: https://doi.org/10.1002/tax.583019).

Chung, K.-F., **Torke, B. M.** & Wu, K. 2009. Unearthing a forgotten legacy of 20th century floristics: the collection of Taiwanese plant specimens in the herbarium of the Academy of Natural Sciences (PH). Taiwania 54: 159–167. (DOI: https://doi.org/10.6165/tai.2009.54(2).159).

Torke, B. M. & Schaal, B. A., 2008. Molecular phylogenetics of the species-rich neotropical genus *Swartzia* (Leguminosae-Papilionoideae) and related genera of the swartzioid clade. American Journal of Botany 95: 215–228. (DOI: https://doi.org/10.3732/ajb.95.2.215).

Torke, B. M. 2007. Three new species of *Swartzia* (Leguminosae-Papilionoideae) from northern South America. Botanical Journal of the Linnean Society 153: 343–355. (DOI: https://doi.org/10.1111/j.1095-8339.2007.00587.x).

Torke, B. M. 2007. New combinations and species-level synonyms in *Swartzia* (Fabaceae: Papilionoideae). Novon 17: 110–119. (DOI: https://doi.org/10.3417/1055-3177(2007)17[110:NCASSI]2.0.CO;2).

Torke, B. M. 2004. Two new species of *Swartzia* (Leguminosae) from the Amazon Basin of Brazil, with notes on the genus and a key to the unifoliolate species. Systematic Botany 29: 358–365. (DOI: https://doi.org/10.1600/036364404774195548).

Torke, B. M. 2000. A revision of *Salvia* section *Ekmania*. Brittonia 52: 265–302. (DOI: https://doi.org/10.2307/2666577).

Peer-review Publications Submitted and In-Press

Andrino, C. O., Barbosa-Silva, R. G., Siniscalchi, C., Baleeiro, P. C., Nepomuceno da Costa, F., Dabydeen, L., Missagia, R., Jobson, R. W., Plunkett, G. M., Sano, P. T., Simon, M. F., **Torke, B. M.**, Viana, P. L. (submitted to Taxon). A paradigm shift in Eriocaulaceae: phylogenomic evidence reveals non-monophyly of Paepalanthoideae and overturns the broad concept of *Paepalanthus*.

Souza Gregório, B. de, Carvalho, C. S., Stirton, C. H., **Torke, B. M.**, Ramos, G., Rocha, L., Zartman, C. E., Lewis, G. P., Duan, L. & Cardoso, D. B. O. S. (submitted to Taxon). Phylogenomics, morphological evolution, and taxonomic revision of *Spirotropis*, a newly delimited legume genus of ecologically dominant Amazonian tree species.

Gissi, D. S., **Torke, B. M.**, Simon, M. F., Tomazello-Filho, M., Fortuna-Perez, A. P. (submitted to Brazilian Journal of Botany). Morphological analyses support taxonomic updates in Brazilian species of *Stylosanthes* Sw. (Papilionoideae, Leguminosae).

Book Chapters and Other Publications

Giacomin, L. L., …. **Torke, B. M.**, … et al. 2022. Lista de espécies de plantas vasculares da Floresta Nacional do Tapajós. *In:* Catálogo de Plantas das Unidades de Conservação do Brasil. Jardim Botânico do Rio de Janeiro. (Available from: https://catalogo-ucs-brasil.jbrj.gov.br).

Giacomin, L. L., Rodrigues, G., Gomes, E. S. C., Mansano, V. F., Forzza, R. C. & **Torke, B. M.** 2022 [2023]. As plantas com sementes da Floresta Nacional do Tapajós: estado do conhecimento. Pp. 110–151 in: Brocardo, C. R. & Giacomin, L. (orgs.), Biodiversidade na Floresta Nacional do Tapajós e Reserva Extrativista Tapajós-Arapuins, ICMBio, Brazil. https://ppbio.inpa.gov.br/sites/default/files/biodiversidade_flona-resex_final_ebook_0.pdf

The Brazilian Flora Group: Forzza, R., Soares, A. E. R., Boldorini, A., Quaresma, A., … **Torke, B. M.** …, da Costa Lima, J. L. 2021. Flora do Brasil 2020/Flora of Brazil 2020. Jardim Botânico do Rio de Janeiro, Rio de Janeiro. (DOI: https://doi.org/10.47871/jbrj2021001).

Torke, B. M. & V. F. Mansano. 2021. Swartzieae. *In:* R. Govaerts (ed,), Legume Phylogeny Working Group (LPWG): Andrella, G. C., … B. M. Torke...., et al. (2021 and updated thereafter). The World Checklist of Vascular Plants (WCVP): Fabaceae, vers. June 2021 (R. Govaerts, ed.). Royal Botanic Gardens, Kew. (Available at: https://zenodo.org/record/6452928).

Mansano, V. F., Pinto, R. B., **Torke, B. M.** 2010. *Swartzia.* In: Lista de Espécies da Flora do Brasil. Jardim Botânico do Rio de Janeiro. (Available at: http://floradobrasil.jbrj.gov.br/2010/FB023178).

Torke, B. M. 2004. Caricaceae. *In:* Smith, N., Mori, S. A., Henderson, A., Stevenson, D. W. & Heald, S. V. (eds.), Flowering Plants of the Neotropics. Princeton University Press, Princeton & Oxforshire, Pp. 85–86.

Book Chapters and other Publications Submitted and In-Press

Torke, B. M. & Grether, R. (in press). *Swartzia.* In: Flora Mesoamericana. Universidad Nacional Autónoma de México, D.F.

Torke, B. M. & Grether, R. (in press). *Fairchildia.* In: Flora Mesoamericana. Universidad Nacional Autónoma de México, D.F.

Websites

Torke, B. M., Almeida, T. E., André, T. J. C., Giacomin, L. L. & Mansano, V. F. 2018-onward. Vascular Plants of the Tapajós Basin. (http://sweetgum.nybg.org/science/projects/tapajos/). The New York Botanical Garden, Bronx, New York.

Torke, B. M. & Mansano, V. F. (eds.). 2011. The Swartzia Pages (http://sweetgum.nybg.org/legumes/swartzia/index.php).

Kallunki, J. A., **Torke, B. M.** & Tulig, M.. 2010. The Rupert Barneby Legume Catalogue: Digital Monograph and Specimens. (http://sweetgum.nybg.org/legumes/barneby/).

Torke, B. M. & Tulig, M. 2009. Legume Research Pages: Legume Research at The New York Botanical Garden. (http://sweetgum.nybg.org/legumes/index.php).

Published Reports

Torke, B. M. (compiler and editor). 2019. Flora of the Guianas (FOG) Meeting and Seminars and Scientific symposium "Advances in Neotropical Plant Systematics and Floristics," New York, 1–3 November 2017. Flora of the Guianas Newsletter 20 (Special Workshop Issue). (Available

at: https://portal.cybertaxonomy.org/flora-guianas/sites/flora-guianas/files/field/pdf/FoG_Newsletter20.pdf).

Blogs

Torke, B. M. (November 4, 2022) Cowpeas and the African diaspora: What can natural history collections add? Part 3. Can herbarium specimens fill historical gaps? Plant Talk. https://www.nybg.org/planttalk/cowpeas-and-the-african-diaspora-part-three-can-herbarium-specimens-fill-historical-gaps/

Torke, B. M. (November 2, 2022) Cowpeas and the African diaspora: What can natural history collections add? Part 2. A life-giving crop. Plant Talk. https://www.nybg.org/planttalk/cowpeas-and-the-african-diaspora-part-two-a-life-giving-crop/

Torke, B. M. (October 25, 2022). Cowpeas and the African diaspora: What can natural history collections add? Part 1. Plant Talk. https://www.nybg.org/planttalk/cowpeas-and-the-african-diaspora-what-can-natural-history-collections-add/

Torke, B. M. (February 13, 2015). Four "flavors" of new plant species, Part IV. Science Talk Blog of The New York Botanical Garden. http://blogs.nybg.org/science-talk/2015/02/four-flavors-of-new-plant-species-part-four/

Torke, B. M. (February 6, 2015). Four "flavors" of new plant species, Part III. Science Talk Blog of The New York Botanical Garden. http://blogs.nybg.org/science-talk/2015/02/four-flavors-of-new-plant-species-part-three/

Torke, B. M. (January 30, 2015). Four "flavors" of new plant species, Part II. Science Talk Blog of The New York Botanical Garden. http://blogs.nybg.org/science-talk/2015/01/four-flavors-of-new-plant-species-part-two/

Torke, B. M. (January 23, 2015). Four "flavors" of new plant species, Part I. Science Talk Blog of The New York Botanical Garden. http://blogs.nybg.org/science-talk/2015/01/four-flavors-of-new-plant-species-part-one/

Torke, B. M. December 23, 2014. A world within an island: Exploring the many habitats of Central Cuba (Parts 1 & 2). http://blogs.nybg.org/science-talk/2014/12/a-world-within-an-island-exploring-the-many-habitats-of-central-cuba-part-one/

Torke, B. M. January 3, 2014. A visual metaphor for the uncertain future of the Amazon rain forest. Science Talk Blog of The New York Botanical Garden. http://blogs.nybg.org/science-talk/2014/01/a-visual-metaphor-for-an-uncertain-future/

Torke, B. M. October 21, 2013. A new species of tropical tree with "roots" in the history of international commerce. Science Talk Blog of The New York Botanical Garden. http://blogs.nybg.org/science-talk/2013/10/a-new-species-of-tropical-tree-with-roots-in-the-history-of-international-commerce/

Published Abstracts/ Conference Presentations (*presenting author)

Torke*, B. M., Bezerra, L. M. P. A., Cardoso, D., Chung, K.-F., Fortuna Perez, A. P., Vatanparast, M. Systematic, evolutionary, and ecological perspectives on the repeated convergent evolution of mimetic seeds in legumes. Evolutionary Ecology of Plants. Session 3. XX International Botanical Congress, Madrid, Spain, 21–27 July, 2024. (Available at: https://ibcmadrid2024.com/?seccion=scientificArea&subSeccion=detailAbstract&id=1742).

Torke*, B. M., Bezerra, L. M. P. A., Cardoso, D., Chung, K.-F., Fortuna Perez, A. P., Vatanparast, M. Systematic and evolutionary perspectives on the repeated convergent evolution of mimetic seeds in legumes. Symposium: Animals and Legumes: from Mutualistic to Antagonistic Interactions (Friday, August 11). 8th International Legume Conference,

Pirenópolis, Brazil, 6–11 August 2023. (Available at: https://www.8ilc.com/program/proceedings).

Bezerra*, L. M. P. A., Cândido, E. S., Vatanparast, M., Ajao, A. A., Boatwright, J. S., Moteetee, A. N., De Vargas, W., Stirton, C. H., Baker, N. P., Lewis, G. P., **Torke, B. M.**, Pezzini, F. F. & Fortuna Perez, A. P. Studies within Cajanineae (Leguminosae): Towards a new generic classification for *Rhynchosia*. 8th International Legume Conference, Pirenópolis, Brazil, 6–11 August 2023. https://www.8ilc.com/program/proceedings).

Bezerra*, L. M. P. A., Cândido, E. S., De Vargas, W., **Torke, B. M.**, Lewis, G. P. & Fortuna Perez, A. P. Taxonomic revision of *Rhynchosia* Lour. (Leguminosae, Papilionoideae, Phaseoleae) in South America. 8th International Legume Conference, Pirenópolis, Brazil, 6–11 August 2023. https://www.8ilc.com/program/proceedings).

Gregório*, B. S., Carvalho, C. S., Ramos, G., Rocha, L., Stirton, C. H., Lima, H. C., Zartman, C. E., Lewis, G. P., **Torke, B. M.**, Snak, C., Higuita, H. A. D., Queiroz, L. P. & Cardoso, D. Molecular phylogeny and novelties in *Clathrotropis* s.l. (Leguminosae, Papilionoideae). 8th International Legume Conference, Pirenópolis, Brazil, 6–11 August 2023. https://www.8ilc.com/program/proceedings).

Gissi*, D. S., **Torke, B. M.**, Tamazello-Filho, M., Fortuna-Perez, A. P. A synopsis of the legume genus Stylosanthes Sw. (Papilionoideae, Leguminosae) in South America and nomenclatural novelties. 8th International Legume Conference, Pirenópolis, Brazil, 6–11 August 2023. https://www.8ilc.com/program/proceedings).

Velásquez Puentes*, F. J., **Torke, B. M.**, Zizka, A., Barratt, C. D. & Onstein, R. E. 2022. Abiotic drivers have shaped trait evolution and trait-environment matching in a Neotropical radiation (*Swartzia*, Fabaceae). ATBC 2022, 58th Annual Meeting of the Association for Tropical Biology and Conservation, July 10-12, 2022, Cartagena, Colombia.

Torke*, B. M. 2017. Increasing efficiencies in the inventory of tropical rainforest floras: A case study from the Brazilian Amazon. Flora of the Guianas Board Meeting and Symposium "Advances in Neotropical Plant Systematics and Floristics", New York Botanical Garden, Bronx, NY, 1–3 November, 2017.

Ruiz*, L. K., **Torke, B. M.**, Mansano, V. & Tuberquia, D. 2017. Tres especies nuevas de *Swartzia* para Colombia. IX National Botanical Congress of Colombia, Tunja, Boyacá, 30 July–3 August, 2017.

Torke*, B. M., Almeida, T. E., André, T., Giacomin, L. G., Kuziel, J. D. & Mansano, V. F. 2017. Increasing efficiencies in the inventory of tropical rainforest floras: A case study from the Brazilian Amazon. XIX International Botanical Congress. Shenzhen, China. 23–29 July 2017.

Torke*, B. M., Chung, K. F. & Cardoso, D. 2015. Re-evaluating the evolutionary and taxonomic significance of morphological innovations in the trans-Pacific tropical tree genus *Ormosia* (Fabaceae). Botany 2015, Edmonton, 25–39 July 2015. Online abstracts: http://www.botanyconference.org/engine/search/index.php?func=detail&aid=1140

Ruiz*, L. K., **Torke, B. M.** & Mansano, V. Descubrimiento de nuevas especies de *Swartzia* (Leguminosae) en el occidente de Colombia. VIII Congreso Colombiano de Botánica. Universidad de Caldas, Colombia. 2–6 August 2015.

Mansano*, V. F. & **Torke, B. M.** 2014. Taxonomic revision of *Swartzia* section *Swartzia*. XI Latin American Botanical Congress, LXV National Botanical Congress of Brazil, Salvador, Brazil. 19–24 October 2014.

Ruiz*, L. K., **Torke, B. M.** & Mansano, V. 2014. The discovery of new species of *Swartzia* (Leguminosae) in western Colombia. XI Latin American Botanical Congress, LXV National Botanical Congress of Brazil, Salvador, Brazil. 19–24 October 2014.

Bonadeau*, F., Morim, M. P., **Torke, B. M.**, Zamborlini S., F. & Lima, H. C. Diversity of Leguminosae tribe Ingeae in Pará, Brazil. 2014. XI Latin American Botanical Congress, LXV National Botanical Congress of Brazil, Salvador, Brazil. 19–24 October 2014.

López Contreras, J. E., Can Itzá, L. L., Pool C., J. E., Carnevali F.-C., G., **Torke, B. M.**, Aguire P., E., Eguiarte, L. E. & Duno de Stefano*, R. 2013. Análisis filogenético de la Alianza *Pithecellobium* (Leguminosae, Mimosoideae, Ingeae) basado en datos morfológicos y moleculares. XIX Congreso Mexicano de Botánica, Tuxtla Gutiérrez, Chiapas, Mexico, 2–25 October 2013.

Torke*, B. M. 2013. Key Note Address: Filogenia, evolución y clasificación de leguminosas: ¿Qué hemos aprendido de la revolución molecular? VII Congreso Colombiano de Botánica, Ibague, Colombia, 6–10 August 2013.

Torke*, B. M., Cardoso, D., Chang, H.; Chung, K.-F. 2013. Una filogenia preliminar de *Ormosia* (Fabaceae): Conocimiento de la biogeografía intercontinental y la biología de la dispersion. VII Congreso Colombiano de Botánica, Ibague, Colombia, 6–10 August 2013.

Torke*, B. M., Cardoso, D., Chang, H.; Chung, K.-F. 2013. A preliminary phylogeny of *Ormosia* (Leguminosae): implications for the classification and biogeography of a trans-Pacific tropical disjunction. Botany 2013, New Orleans, 27–31 July 2013. Online abstracts: http://www.botanyconference.org/engine/search/index.php?func=detail&aid=601

Moura*, T. M., Lewis, G. P., **Torke, B. M.** & Mansano, V. F. 2013. Taxonomy of the neotropical species of *Mucuna* (Leguminosae), 6–11 January 2013, University of Johannesburg, South Africa.

Torke*, B. M. 2012. *Swartzia* (Leguminosae) in the Guianas: what we have learned since the publication of the Flora of the Guianas treatment in 1989. Flora of the Guianas Biennial Meeting and Seminars, Leiden, Netherlands, October 22–23, 2012.

Torke*, B. M., Mansano, V. F., Ruiz Bohórquez, L. K. & Campbell, L. 2011. Interpreting morphological complexity and parallelism within the framework of a phylogenetically-based infrageneric classification of *Swartzia* (Leguminosae). XVIII International Botanical Congress, Melbourne, Australia, 23–30 July 2011, Online Abstracts: http://www.ibc2011.com/downloads/IBC2011_Abstract_Book.pdf

Boatwright, S., Kenicer, G., Lavin, M., McMahon, M., Sanderson, M., Steele, K., **Torke, B. M.**, van Wyk, B.-E. & Wojciechowski*, M. F. 2011. Progress in Papilionoid legume systematics: towards a phylogenetic classification. XVIII International Botanical Congress, Melbourne, Australia, 23–30 July 2011, Online Abstracts: http://www.ibc2011.com/downloads/IBC2011_Abstract_Book.pdf

Torke*, B. M., Rodrigues Francisco, V. M. C., Mansano, V. F., Sodré Cardoso, S. R., Pennington, R. T. 2010. Toward a resolution of relationships within and among the swartzioid and aldinoid legumes, with emphasis on the species-rich neotropical genus *Swartzia.* V International Leguminosae Conference, Buenos Aires Argentina, 8–14 August 2010, Abstracts in press.

Torke*, B. M., Mansano, V. F., Pinto, R. B. & Ruiz Bohórquez, L. K. 2010. The changing landscape of taxonomic monography: The effect of new data, concepts and analyses in an ongoing study of the species-rich neotropical tree genus *Swartzia* (Leguminosae). Botany 2010, Providence, RI, July 31-August 4 2010, Online Abstracts: http://2010.botanyconference.org/engine/search/index.php?func=detail&aid=599

Pennington*, R. T., Lavin, M. **Torke, B. M.** 2007. Using plant phylogenies to understand patterns of dispersal assembly and niche conservation in the rain forests and seasonally dry forests of the Neotropics. The annual meeting for the Association for Tropical Biology and Conservation, Morelia, Mexico, 15–19 July 2007. Program and Abstracts, Pp. 26.

Torke*, B. M. & Schaal, B. A. 2007. Phylogeography of the Central American apetalous clade of *Swartzia* (Leguminosae): geographic isolation and population subdivision trump dispersal and gene flow in a tropical tree diversification. Botany 2007, Chicago, IL, 7–11 July 2007, Online Abstracts: (http://www.2007.botanyconference.org/engine/search/index.php?func=detail&aid=1300).

Torke*, B. M. & Schaal, B. A. 2004. A preliminary phylogeny of *Swartzia* (Fababceae-Papilionoideae), based on chloroplast and nuclear sequence data. Botany 2004, Snowbird, UT, 31 July–5 August 2004. Online Abstracts: (http://www.2004.botanyconference.org/engine/search/index.php?func=detail&aid=176).

Torke*, B. M. & Schaal, B. A. 2002. Phylogeny and evolution of *Swartzia* (Leguminosae), based on chloroplast and nuclear sequences. Botany 2002, Madison, WI, 2–7 August 2002. Online Abstracts: (http://www.botany2002.org/section12/abstracts/142.shtml).

Torke*, B. M. & Schaal, B. A. 2001. Preliminary phylogenetic, evolutionary and monographic investigations in *Swartzia* (Leguminosae). Botany 2001, Albuquerque, NM, 12–16 August 2001. Online Abstracts: (http://www.botany2001.org/section15/abstracts/9.shtml).

Invited Lectures

Torke, B. M. January 25, 2024. Insights on Neotropical plant diversity from collaborative floristic and systematic studies (promotion seminar). NYBG Science and Humanities Seminars, New York Botanical Garden, Bronx, NY.

Torke, B. M. September 25, 2020. The Brazilian Amazon under threat: a report of the impacts of climate change and deforestation in the World's largest rainforest. Lecture forming part of the Climate Week programming at the New York Botanical Garden, Bronx, NY. (Recording available at: https://www.youtube.com/watch?v=utgqTtt25jU).

Torke, B. M. October 12, 2017. Exploration and conservation in the Amazon rainforest. Plant Research and Conservation Advisory Council Meeting of the New York Botanical Garden, Carnegie Corporation, New York, NY.

Torke, B. M. November 14, 2014. The systematics of Neotropical legumes: From populations to subfamilies. The New York Botanical Garden, Bronx, NY.

Torke, B. M., Cardoso, D., Chang, H.; Chung, K.-F. October 18, 2013. A preliminary phylogeny of *Ormosia* (Leguminosae): implications for the classification and biogeography of a trans-Pacific tropical disjunction. The New York Botanical Garden, Bronx, NY.

Torke, B. M. March 22, 2012. Putting Amazonian plant diversity in historical, geological and ecological context. Philadelphia Botanical Club. Philadelphia, PA.

Torke, B. M. March 5, 2012. La evolución de la diversidad de árboles en el bosque Amazónico. Fundación Istituto Botanico Tonias Laser, Caracas, Venezuela.

Torke, B. M. September 9, 2011. Spatial turnover of tree species diversity in Amazonia: insights from systematics and floristics. The New York Botanical Garden, Bronx, NY.

Torke, B. M. November, 2010. Botanical exploration in the rainforests of the New Word Tropics. Learning in Retirement at Iona College, New Rochelle, NY.

Torke, B. M. September, 2010. The changing landscape of taxonomic monography: The effect of new data, concepts and analyses in an ongoing study of the species-rich neotropical tree genus *Swartzia* (Leguminosae). The New Botanical Garden, Bronx, NY.

Torke, B. M. 2010. Distribution of plant diversity in Amazonia: filling the knowledge gaps for science and conservation. Annual Meeting of the Botanical Science Committee of the New York Botanical Garden, Bronx, NY.

Torke, B. M. 2010. Botanical exploration in the far corners of the Amazon Basin: The NYBG/WCS expedition to the Pampas del Madidi area of Bolivia. All Staff Meeting of The New York Botanical Garden, Bronx, NY.

Torke, B. M. 2009. La sistemática y evolución de árboles del bosque lluvioso neotropical. Universidad Gabriel René Moreno, Santa Cruz, Bolivia.
Torke, B. M. 2008. Systematics and evolutionary diversification in the new world tropics: examples from the species-rich tree genus *Swartzia*. University of Wisconsin Parkside, Kenosha, Wisconsin.
Torke, B. M. 2008. The diversity and evolution of rain forest tree communities in the New World Tropics. Philadelphia Botanical Club, Philadelphia, Pennsylvania.
Torke, B. M. 2008. Systematics, biogeography, and evolutionary diversification in the species-rich neotropical tree genus *Swartzia* (Leguminosae-Papilionoideae) and related genera. New York Botanical Garden, Bronx, New York.
Torke, B. M. 2008. Systematics and evolutionary diversification in the new world tropics: examples from the species-rich tree genus *Swartzia*. Grand Valley State University, Allendale, Michigan.
Torke, B. M. 2006. Molecular phylogenetics and diversification in the species-rich neotropical tree genus *Swartzia* (Leguminosae-Papilionoideae). Academy of Natural Sciences, Philadelphia, Pennsylvania.
Torke, B. M. 2005. Phylogenetics and diversification of *Swartzia* (Papilionoideae-Leguminosae), a species-rich neotropical tree genus. New York Botanical Garden, Bronx, New York.

Postdoc Mentoring

Dr. Elenice Aparecida Fortes, Instituto de Pesquisas Jardim Botânico do Rio de Janeiro, Brazil. Research: Building a next-generation phylogeny for the species-rich neotropical tree genus *Swartzia* (Fabaceae). Mentor during six-month residency at the New York Botanical Garden funded by the National Council for Scientific and Technological Development of Brazil–CNPq (15 August 2024–14 February 2025).
Dr. Leonardo Borges, Universidad de São Paulo, Brazil. Research: Morphological innovation in *Mimosa*. Funded by the Brazilian government through the "Scientist Without Boarders" program. Residency at The New York Botanical Garden, July 2015–Jan 2016 (left NYBG to begin permanent position at the Universidade Federal do São Carlos in Brazil).

Ph.D. Student Mentoring

Anderson Javier Alvarado Reyes, Universidad Estadual de Campinas, Brazil. Research: Systeamtics of *Orphanodednron* and related genera (Fabaceae). Mentor during four-month residency at the New York Botanical Garden funded by the National Council for Scientific and Technological Development of Brazil–CNPq (01 August–31 December, 2024).
Rafael Gomes Barbosa da Silva, Museu Paraense Emílio Goeldi. Project: "Phylogenomics, biogeography and taxonomy of *Bonnetia* Mart. (Bonnetiaceae)". Mentor during c. 8-month internship at the New York Botanical Garden funded by Fundação Coordenação de Aperfeiçoamento de Pessoal de Nível Superior–CAPES as part of the project "Diversification of the Pantepui flora" (June 11, 2023–March 15, 2024).
Guilherme Sousa da Silva, State University of Campinas, Brazil. Project: "Systematics and evolution of the *Angylocalyx* clade of legumes, with special focus on the neotropical genus *Alexa*". Mentor during four-month internship at the New York Botanical Garden funded by Fundação Coordenação de Aperfeiçoamento de Pessoal de Nível Superior–CAPES (May 1–September 1, 2023).
Danilo Soares Gissi, São Paulo State University, Brazil. Project: "Systematics of *Stylosanthes* (Leguminosae–Papilionoideae–Dalbergieae), with emphasis on the species occurring in Brazil." Mentor during year-long internship at the New York Botanical Garden funded by

Fundação Coordenação de Aperfeiçoamento de Pessoal de Nível Superior–CAPES (January 2019–December 2020; December 2021–April 2022).

Robberson Bernal Setubal, Jardim Botânico do Rio de Janeiro, Brazil. Project: "Systematics of Neotropical *Strychnos*." Mentor during six-month internship at the New York Botanical Garden funded by the National Science Foundation (September, 2017–February, 2018).

Francismeire Bonadeau, Jardim Botânico do Rio de Janeiro, Brazil. Project: "Systematics of the mimosoid legumes of Pará, Brazil." Mentor during six-month "sandwich study" at the New York Botanical Garden (March–August 2014), and outside member of research committee, August 2013–2015).

Adam Negrin, Lehman College, City University of New York. "On the Domestication and Selection of *Theobroma cacao* L.: Parallel Chemotaxonomy and Phylogenetics of *Theobroma* and *Herrania* species." (member of research committee, May, 2013–January 2019).

Enrique Lopez, Centro de Investigación Científica de Yucatán, Mexico. "A systematic study of the *Pithecellobium* (Leguminosae-Mimosoideae) complex." (outside member of research committee, June 2010–June 2017).

Rafael Barbosa Pinto, Universidade Estadual do Campinas, Brazil. "Systematics of *Hymenaea* (Leguminosae-Caesalpinioideae)" (outside member of research committee, 2015).

Masters Student Mentoring

Edgar Augusto Lobato Afonso, Museu Paraense Emilio Goeldi, Brazil. Project: "Systematics of *Myriocladus* and related bambusoid grasses." Six-month internship funded by the National Science Foundation (October, 2017–March, 2018).

Liz Karen Ruiz Bohórquez, Universidad de los Andes, Bogotá, Colombia. Project: "A taxonomic study of *Swartzia* section *Terminales*." Six-month internship funded by the National Science Foundation. (November 2010–present).

Rafael Barbosa Pinto, Universidade Federal do Estado do Rio de Janeiro, Brasil. Project: "A taxonomic study of *Swartzia* section *Acutifoliae*." Internship funded by the National Science Foundation. (December 2009–June 2010).

Undergraduate Student Mentoring

Julia Beros, Sarah Lawrence College, NY. Project: "Enhancing Public Outreach for the Flora Tapajós Project, A Multi-institutional Effort to Improve the Botanical Inventory of the South-Central Brazilian Amazon." Summer internship at the New York Botanical Garden funded by the National Science Foundation (May–August, 2017)

Diego Alejandro Mojica Ramos, Universidad Nacional de Colombia. Project: "Building a *matK* DNA sequence dataset for phylogenetic analysis of *Swartzia*." Unpaid internship at the New York Botanical Garden (September–January, 2013).

Angela Golinvaux, Evergreen State College, WA. Project: "Interactive Key to the New World Genera of Leguminosae Tribe Ingeae." NSF-funded summer internship (DBI-0955567) at The New York Botanical Garden (June–August, 2012).

Kimberely Wu, Bernard College, New York, NY. Project: "A Forgotten Legacy of 20th Century Floristics: Unearthing the Collection of Taiwanese Plant Specimens in the Herbarium of the Academy of Natural Sciences." Research Experiences for Undergraduate Program, Academy of Natural Sciences, 2 month summer internship (June, July 2008).

Claire Addis, Luther College, Decorah, Iowa. Project: "Molecular Investigation of *Swartzia.*" Research Experiences for Undergraduate Program, Academy of Natural Sciences, 2 -month summer internship (June, July 2007).

High School Student Mentoring

Tyra Byrant-Winsett, Dewitt Clinton High School, Bronx, NY. Duties: Assisting specimen data entry and collections curation for various projects. New York City Cultural Institutions paid internship (February–June, 2023).

Elena You, Bronx High School of Science, Bronx, NY. Specimen-based research on the legume collection of the NYBG herbarium. Volunteer intern (summer, 2023).

Supervisor of Staff

Julia Beros, Project Assistant for Flora of Tapajos Project, New York Botanical Garden (November, 2017–June 2018).

Jonathan Kuziel, Project Assistant for Flora of Tapajos Project, New York Botanical Garden (November, 2015–May, 2017).

Institutional Service (See also Outreach and Editorial Service)

Member of the Expert Group, NYBG Science Strategy Planning, New York Botanical Garden (December 2024-present).

Participant in Level I and Level II Strategic Planning, New York Botanical Garden (January–November, 2019; August–October, 2022).

Member of review committee for promotion of staff, New York Botanical Garden (November, 2019).

Member of the New York Botanical Garden Press Advisory Committee (August 2017–present).

Coordinator of The New York Botanical Garden Science Seminar (August 2011–June 2012).

Administrator of the Rupert Barneby Award of the New York Botanical Garden and host for Barneby Fellows (January 2009–present).

Organizer of a fundraising campaign on behalf of the Rupert Barneby Fund for Legume Systematics, New York Botanical Garden (August-December, 2011).

Editorial Service

Associate Editor and Member of the Editorial Committee of Brittonia: A Journal of Systematic Botany, The New York Botanical Garden (November 2012–October 2015; July 2022–present).

Editor-in-Chief and Member of the Editorial Committee of Brittonia: A Journal of Systematic Botany, The New York Botanical Garden (October 2015–June 2022).

Meetings and Symposia Organizational Service

2023. Member of the Scientific Committee, 8th International Legume Conference, Pirenópolis, Brazil (6–11 August 2023).

2017. Organizer, Flora of the Guianas Meeting of the Board and Symposium "Advances in Neotropical Plant Systematics and Floristics", New York Botanical Garden, Bronx New York, with approximately 50 participants from seven countries (1–3 November, 2017).

Meetings Attended (but not as presenter)

2024. Nomenclatural Session of the XX International Botanical Congress, Madrid, Spain, as the New York Botanical Garden representative and conveyor of institutional votes (15–19 July 2024).

2021. Flora of The Guianas Meeting of The Board. Virtual Meeting (15–16 September, 2021).

2019. A World of Plants, Hosted by the National Geographic Society, Washington DC., assisted with identifying NGS funding priorities for plant research (29–30 October, 2019).

Academic Awards and Honors

Catherine M. Lieneman Scholarship in Arts and Sciences, Washington University (2004–2005)

Washington University Graduate Fellowship (2000–2006)
Nomination for Outstanding Graduate Masters Student, Ohio University (1997)
Ohio University Graduate Student Teaching Assistantship (1994–1997)
Golden Key Honor Society (1994)
Ball State University Dean's List for Academic Achievement (5 times, 1990–1994)

Certifications
Graduate of the Academia de Español, Quito, Ecuador - advanced Spanish training (1997).
Tropical Plant Systematics (taught in Costa Rica), Organization for Tropical Studies (1996).
OSHA Chemical Hygiene Lab Standards (1995–2006).

Significant Botanical Fieldwork and Collections
United States, Florida: Preliminary collection of plant materials for developmental and phylogenomic study of mimetic-seeded legumes: *Torke 2473–2497*, plus seeds for cultivation, to be deposited at NY and FTG (October 11–15, 2022).
Brazil, Pará: Floristic inventory of the FLONA do Tapajós and Parque Nacional da Amazônia: *Torke 2200–2472*, plus ca. 800 numbers by other collectors, deposited at HST, MG, NY, RB and elsewhere (12 January–2 February, 2020).
China, Guangdong: Sampling for phylogenetic and biogeographical study of *Ormosia*, ca. 25 collections made by collaborators, deposited at IBSC and HAST (29 July–02 August 2017).
Brazil, Pará: Floristic inventory of the FLONA do Tapajós: *Torke 2020–2198*, plus an ca. 300 numbers by other collectors, deposited at HST, MG, NY, RB and elsewhere (5–18 February 2017).
Brazil, Pará: Floristic inventory of the Parque Nacional da Amazônia: *Torke 1711–2019*, plus an ca. 300 numbers by other collectors, deposited at HST, MG, NY, RB and elsewhere (6–23 July 2016).
Brazil, Pará: Floristic inventory of the FLONA do Tapajós: *Torke 1493–1710*, plus an ca. 300 numbers by other collectors, deposited at HST, MG, NY, RB and elsewhere (1–15 November 2015).
Cuba: Fieldwork for miscellaneous phylogenetic and taxonomic studies of Leguminosae and general collecting: *Torke 1382–1492*, deposited at HAC, NY, and other herbaria (7–22 August 2014)
Brazil, Pará: Fieldwork for revisionary study of *Swartzia* and floristic inventory of Tapajós basin; collections: *Torke 1263–1357*, plus ca. 300 numbers by other collectors, deposited at IAN, MG, NY, RB and elsewhere (17 November–3 December 2011).
Brazil, Pará: Floristic inventory of the FLONA do Tapajós and Parque Nacional da Amazônia; collections: *Torke 724–1262*, plus an ca. 400 numbers by other collectors, deposited at IAN, MG, NY, RB and elsewhere (May–June 2011).
Colombia: Fieldwork for phylogenetic, revisionary and population genetic studies of *Swartzia* and other Leguminosae; collections: *Torke 690–723* plus ca. 100 numbers by other collectors, deposited at COAH, COL, NY, RB and elsewhere (October 2010).
Bolivia: Floristic inventory of private lands in the Bolivian Chaco and of the Pampas del Madidi area (in conjunction with WCS-Bolivia); collections: *Torke 435–689*, deposited at LPB, NY, USZ and elsewhere (May–June 2009).
Brazil, Rio de Janeiro and Pará: Fieldwork for phylogenetic, revisionary and population genetic studies of *Swartzia* and other Leguminosae; collections: *Torke 390–427,* deposited at IAN, K, MO, NY, PH, RB, US and elsewhere (May 2008).
Nicaragua and Costa Rica: Fieldwork for phylogenetic, revisionary and population genetic studies of *Swartzia* (Leguminosae); collections: *Torke 361–385*, deposited at HULE, INB, K, MO, NY, US and elsewhere (May 2005).

Guatemala, Belize and Mexico: Fieldwork for phylogenetic, revisionary and population genetic studies of *Swartzia* (Leguminosae); collections: *Torke 351–360, Rivera Garcia s.n., Augulo 191–199, Duno 2001-2016*, deposited at BRH, CICY, MEXU, MO, UVAL and elsewhere (August–September 2004).

Guyana: Fieldwork for phylogenetic and revisionary studies of *Swartzia* (Leguminosae), with limited general collecting; collections: *Torke 277–350*, deposited at BRG, K, MO, NY, US and elsewhere (April 2004).

Peru: Fieldwork for phylogenetic and revisionary studies of *Swartzia* (Leguminosae); collections: *Torke 250–276*, deposited at AMAZ, HUT, K, MO, NY, US, USM and elsewhere (October–November 2003).

Bolivia: Fieldwork for phylogenetic and revisionary studies of *Swartzia* (Leguminosae); collections: *Torke 240–249*, deposited at LPB, K, MO, NY, US, USZ and elsewhere (April 2003)

French Guiana: Fieldwork for phylogenetic and revisionary studies of *Swartzia* (Leguminosae), with limited general collecting; collections: *Torke 167–239*, deposited at CAY, K, MO, NY, US and elsewhere (July–August 2001).

Brazil, Bahia: Fieldwork for phylogenetic and revisionary studies of *Swartzia* (Leguminosae); collections: *Torke 150–166*, deposited at CEPEC, K, MO, NY, US and elsewhere (August 2000).

Dominican Republic: Fieldwork for revisionary study of *Salvia* section *Ekmania* (Labiatae). With limited general collecting; collections: *Torke 59-145*, deposited at BHO, FLAS, JBSD, NY, MO, US and GH (December 1995–January 1996).

Recent International and Domestic Herbarium Research Away from Home Institution

Brazil: Taxonomic research for revision of *Swartzia*, studied and annotated collections at INPA (February-March 2012); recurring research on the flora of the Tapajós basin at HSTM (May, November, 2011, November, 2015, July, 2016, February, 2017, January 2020).

Ecuador: Taxonomic research for revision of *Swartzia*, studied and annotated collections at QCA and QCNE (May 2012).

Venezuela: Taxonomic research for revision of *Swartzia*, studied and annotated collections at VEN and PORT (February 2012).

Colombia: Taxonomic research for revision of *Swartzia*, studied and annotated collections at COL, COAH, UDBC, ANDES, FMB, HUA, MEDEL, JUAM (October 2010)

Europe: Taxonomic research for revision of *Swartzia*, studied and annotated collections at: K, L, U, BR, G, M, B (Sept–October 2009).

United States: Various visits to F, MO, US, and GH for systematic studies of *Swartzia* and *Ormosia*.

Media Interviews

2024. Interview/conversation about the origin of common names applied to the cowpea, *Vigna unguiculata*, and its domestication and cultural history, with Dr. Cynthia Greenlee, historian, award-winning food writer and co-editor of the independent journal *Crop Stories*, for a planned issue of *Crop Stories* focused on cowpeas (20 September 2024).

Public Outreach (See also Blogs, Invited Lectures, and Media Interviews)

Public demonstration on Neotropical legume research as part of Fall Forest Weekends at the New York Botanical Garden (12 November, 2023)

Appeared in the "The Scientist is In" booth for the NYBG Earth Day Weekend Celebration/ Science Open House and conveyed to the visiting public information highlighting the importance of NYBG's botanical exploration efforts in the Brazilian Amazon (22 April 2018; 24 April 2022).

Helped design and install part of the public exhibit “Saving the Plants of the Word: Science in Action”: two display cases about floristic research in the Tapajós basin of the Brazilian Amazon and the diversity and ecological importance of legumes in Amazonian forests (installed, February 2017, ongoing)

Public demonstrations on plant collecting for scientific research as part of the Science Open House at the New York Botanical Garden (June, 2014, June 2015, 22 May 2016, 23 April 2017; 23 April, 2023)

Led public tour of the Enid A. Haupt Conservatory focused on plant adaptation as part of the Science Open House at the New York Botanical Garden (June 2014)

“Gallery Talk” on the topic of plant species discovery for members of the New York Botanical Garden (April 2013)

"Cafe Scientifique," Participated in a public exhibition about Science at the New York Botanical Garden (June 2010)

Outstanding Mentor, Mentor St. Louis: a program for underprivileged elementary school youths (2003–2004).

Languages

Proficient in English and Spanish, conversational in Portuguese.

Reviewer for Scientific Journals

Acta Botanica Mexicana (October 2014)
Annales Botanici Fennici (February 2015)
Annals of the Missouri Botanical Garden (2004)
Blumea (July 2007)
Botanical Journal of the Linnean Society (April 2008; August 2009; February 2013)
Botanical Review (June 2014)
Botanical Studies (September 2016)
Brazilian Journal of Botany (March 2024)
Brittonia (January 2009; May 2010; November 2010; March 2011; December 2015; September 2016; May 2018; September 2018)
Cladistics (December 2010)
Communications Biology (February 2024)
Edinburgh Journal of Botany (October 2023)
International Journal of Plant Sciences (September 2008; June 2015)
Journal of Biogeography (October 2023)
Molecular Phylogenetics and Evolution (October 2014; March 2023)
Novon (April 2008)
Rodriguésia (2006)
Phytotaxa (December 2011; August 2012; September 2013; July 2014)
Proceedings of the National Academy of Sciences (March 2010)
Scientific Reports (April 2020)
Systematic Botany (April 2008; December 2008; March 2009; June 2010; December 2011; July 2015; September 2017; March 2023)
Systematic Botany Monographs (November 2009)
Taiwania (March 2015)
Taxon (February 2013)

Reviewer for Other Publications and Websites

Global Plants Initiative (March 2014)

Reviewer of Grant Proposals and NSF Panel Service

American Society of Plant Taxonomists (ASPT), reviewer of ASPT Graduate Student Research Grants (March, 2023)

The Graduate Center, City University of New York, reviewer of Doctoral Student Research Grant (DSRG) applications (February, 2023)

Academia Sinica-Taiwan, reviewer of grant proposal (August, 2020)

National Geographic Society, reviewer of grant proposals (July, 2008; November, 2010; September, 2011; January, 2012; October, 2012)

National Science Foundation-USA, reviewer of grant proposals (September, 2008; March, 2009; October, 2012; September, 2015; October, 2017; April, 2022; October 2024)

Torrey Botanical Club, reviewer of grant proposals (March, 2010; February, 2013)

National Science Foundation-USA, panelist for "Dimensions in Biodiversity" (July, 2010)

The New York Botanical Garden, reviewer of proposals for The Rupert Barneby Award, an annual research grant to help visiting scientists study the vast herbarium collections of Leguminosae at NYBG (January 2009–present)

External Member of Promotion Review Committees

Smithsonian Institution, External Member of Review Committee for Promotion of Staff (September, 2016)

Professional Society Affiliations (past and present)

American Society of Plant Taxonomists
Botanical Society of America
International Association for Plant Taxonomy
National Geographic Society Explorers

References

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