

Alina Freire-Fierro

Associate Professor of Botany

Universidad Técnica de Cotopaxi, Applied Botany Herbarium UTCEC, Tourism Department-CAREN

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Profiles

Principal Investigator 3, SENE CYT (Ecuadorian National Science Foundation): REG-INV-16-01432

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Education

Ph.D., Environmental Science, Biology Department, Drexel University, 2015

M. S., Department of Biology, University of Missouri-St. Louis, St. Louis, USA, 1998

M. em C., Biociências Institute, São Paulo University. Brazil, 1992

Academic/Teaching Experience

Associate Professor, Tourism and Agronomy departments (Botany, Flora of Ecuador), Universidad Técnica de Cotopaxi, Latacunga, Ecuador, June 2018-Present

Adjunct Professor, Current Topics in Biology-BIOL 101-Botany, Philadelphia University, Philadelphia, 2015

Collection Manager, Botany Department, Academy of Natural Sciences, Philadelphia, 2006-2015

Co-PI, NSF Project on Virtual Types at the Academy of Natural Sciences Herbarium, NSF Grant #0545170, 2006-2008.

Graduate/Undergraduate students

Andrade, Andrea. 2023. Ph.D. student. La restauración ecológica como una herramienta para la conservación y desarrollo del turismo. Universidad Rey Juan Carlos, Spain.

Pachacama Andrea, 2020. Ecosystems Engineering degree. Guía etnobotánica de los mercados de la ciudad de Latacunga, cantón Latacunga, Cotopaxi, Ecuador. Universidad Técnica de Cotopaxi, Ecuador.

Gavilánez Liz. 2020. Guía etnobotánica de la Parroquia Canchagua, Cantón Saquisilí, Cotopaxi, Ecuador. Universidad Técnica de Cotopaxi, Ecuador.

Zurita, Eveling. 2019. Ecosystems Engineering degree. Identificación e historia natural de familias botánicas del sendero de downhill en el campus Salache de la Universidad Técnica de Cotopaxi Latacunga- Ecuador. Universidad Técnica de Cotopaxi, Ecuador.

Publications (* Indexed or peer-reviewed publication)

1. *Picón, G., H. Valdebenito, A. Argüello, D. Neill, W. Franco, y A. Freire-Fierro (eds.). 2018. La Botánica en Latinoamérica, Realidad y Desarrollo Virtual: Resúmenes del XII Congreso Latinoamericano de Botánica. Latacunga. Universidad Técnica de Cotopaxi y Universidad Central del Ecuador. Quito, Ecuador. 694 pp. ISBN: 978-9942-945-80-8.
2. *Landrum, L.R., S. Demissew, R. Fortunato, A. Freire-Fierro, G. Moore, C. Parra-O., L. Rico and G.F. Smith. 2017. Making nomenclature governance more inclusive through virtual attendance and electronic voting at the Nomenclature Section of an International Botanical Congress. *Taxon* 66 (3): 704-707.
3. *Freire-Fierro, A. 2015. Saxifragaceae, In: Catálogo de las Plantas Vasculares de Bolivia. Monographs of Systematic Botany, pp. 1197. Missouri Botanical Garden. St. Louis, USA.
4. *Freire-Fierro, A. 2015. Polygalaceae, In: Catálogo de las Plantas Vasculares de Bolivia. Monographs of Systematic Botany. Missouri Botanical Garden, pp. 1105-1110. St. Louis, USA.
5. *Freire-Fierro, A. and J.F. Pastore. 2013. *Monnina goiana* (Polygalaceae), a Well-known but Misidentified Brazilian species. *Systematic Botany* 38(1): 1-5.
6. Freire-Fierro, 2011. Polygalaceae. Pp. 740-745 in: León-Yáñez, S., R. Valencia, N. Pitman, L. Endara, C. Ulloa Ulloa and H. Navarrete. Libro rojo de las plantas endémicas del Ecuador. 2nd. Ed. Publicaciones del Herbario QCA, Pontificia Universidad Católica del Ecuador.
7. Freire-Fierro, A. 2011. Grossulariaceae. *Libro rojo de las plantas endémicas del Ecuador, II Edition* Herbario QCA, Pontificia Universidad Católica del Ecuador, Quito.

8. Freire-Fierro, A. 2011. *Monnina* (Polygalaceae), In Idárraga Piedrahita, A., R. del C. Ortiz, R. Callejas Posada & M. Merello, 2011, (eds. Vol. II). Flora de Antioquia: Catálogo de las Plantas Vasculares del Departamento de Antioquia (Colombia).
9. Freire-Fierro, A. 2011. Hydrangeaceae, In Idárraga Piedrahita, A., R. del C. Ortiz, R. Callejas Posada & M. Merello, 2011, (eds. Vol. II). Flora de Antioquia: Catálogo de las Plantas Vasculares del Departamento de Antioquia (Colombia).
10. *Freire-Fierro, A. and A. Landale. 2011. Lectotypification of Thomas Nuttall's names applied to North American *Polygala*. Journal of the Botanical Research Institute of Texas 5 (1): 106-109.
11. *Moore, G., Smith F. G., Figueiredo E., Deimissew S., Lewis G., Shrire B., Rico L., Wyk, A.E.van, Alford M., Ali S.I., Ameka G.K., Atahuachi B. M., Bandyopahayay S., Barker N., Beentje H., Bruneau A., Bytebier B., Chandra V., Chiang F., Craven L., Crisp M., Cunningham A., Dold T., Elizondo M.G., Fagg C., Fortuna-Pérez A.P., Fortunato H. R., **Freire-Fierro A.**, Friis I., (+ 41 more authors). 2010. *Acacia*, the 2011 Nomenclature Section in Melbourne, and beyond. Taxon 59 (4): 1188-1195.
12. *Freire-Fierro, A. y F. Pastore. 2008. Polygalaceae. En: Zuloaga, F., O. Morrone, y M. J. Belgrano (eds.). Catálogo de las Plantas Vasculares del Cono Sur. Monographs of Systematic Botany 107. Missouri Botanical Garden. St. Louis, USA.
13. *Romoleroux, K. & **A. Freire-Fierro**. 2004. 117 C. Escalloniaceae. In: G. Harling and L. Andersson (eds.), Flora of Ecuador 73: 67-84.
14. *Freire-Fierro, A. 2004. 117 B. Grossulariaceae. In: G. Harling and L. Andersson (eds.), Flora of Ecuador 73: 41-66.
15. Freire-Fierro, A. 2004. *Botánica Sistemática Ecuatoriana*. Missouri Botanical Garden, FUNDACYT, QCNE, RLB and FUNBOTANICA. Murray Print, St. Louis. 209 pp.
16. Freire-Fierro, A. y D. Neill (eds). 2002. *La Botánica en el Nuevo Milenio*, Memorias del III Congreso Ecuatoriano de Botánica. Herbario Nacional del Ecuador and FUNBOTANICA.
17. *Freire-Fierro, A. 2002. A new species of *Ribes*, notes and a key of the Ecuadorian Species. *Systematic Botany* 27(1): 14--19.
18. *Freire-Fierro, A. 2002. Proposal to conserve *Ribes leptostachyum* Benth. against *Ribes leptostachyum* Decne. *Taxon* 51(1): 195.
19. *Freire-Fierro, A. 2002. Revision of *Aciotis* (Melastomataceae). *Systematic Botany Monographs* 62: 1-99 pp.

Research Funded Projects

Collaborator, "Actividad biológica in vitro de los extractos de plantas medicinales de la Reserva Biológica Colonso Chalupas Provincia de Napo-Ecuador mediante técnicas in vitro para *Leishmania* spp.", \$14,900. 2017.
PI, Project "Systematics and Phylogeny of *Monnina* (Polygalaceae: Fabales)". Cottswald Foundation, Academy of Natural Sciences, \$ 3.000. 2012.
PI, Project "Origin and Diversification of *Monnina* (Polygalaceae)". IAPT Fellowships. \$1,000. 2011, ASPT Fellowships. \$850. 2011.
PI, Project " Origin and Diversification of *Monnina* (Polygalaceae)". Bentham-Moxon Award, Kew Gardens. \$3,790. 2011.
Co-PI, NSF Project on Virtual Types at the Academy of Natural Sciences Herbarium, NSF Grant #0545170, 2006-2008 (http://www.nsf.gov/awardsearch/showAward?AWD_ID=0545170&HistoricalAwards=false)

Reviewer

Boletín Latinoamericano de Etnobotánica, Phytotaxa, International Code of Botanical Nomenclature, Spanish Edition, Lundellia, Brittonia, Sida, Caldasia, Novon, Systematic Botany, Flora Fanerogâmica do Estado de São Paulo, Phytotaxa, Taxon.

Guest Speaker

XV Congreso Nacional de Botánica, Perú. 2016. <http://www.slideshare.net/997227832/libro-resumenes-xv-congreso-nacional-de-botnica-cusco-peru-2016>
Round Table "El papel de los herbarios en la conservación", 66to Congreso Brasileiro de Botánica, Brasil, 2015.
XIV Congreso Nacional de Botánica, Trujillo, Peru, 2012
XXXI Jornadas Argentinas de Botánica, September, Corrientes, Argentina, 2007

Distinctions/Fellowships

XX International Botanical Congress, Rio de Janeiro, 2022, Organizing Committee Member for Latin America.
Council Member, International Association for Plant Taxonomy IAPT. 2017-2022.
President, Association for Latin American Botanists, 2015-2018
President, XII Latin American Botanical Congress, Quito, Ecuador, October, 2015-2018
Research Associate, Smithsonian Institution, USA, 2015-Present
Research Associate, Missouri Botanical Garden, St. Louis, USA, 2006-Present
Member-at-Large, Sigma XI, The Scientific Research Society, 2016
Chairperson, Public Relations Committee, American Society of Plant Taxonomy, USA. 2016-2017.
Medal of Honor, Peruvian Botanical Society. 2016.
Superior Council, Association for Latin American Botanists, 2011-2014
Corresponding Secretary, Philadelphia Botanical Club, 2008-2014

Field Experience

Argentina, Subtropical habitats, Cerrado vegetation, 2007
Bolivia, volunteer work at Noel Kempf National Park. One week, 1994
Brazil, Atlantic and restinga habitats, Caatinga, Cerrados, Campos Rupestres: 1989-1992, 2015
Canada, Pacific West Coast, 2015.
Chile, Dry vegetation and cloud forest, 2010
Colombia, montane forests, 2009; 2017
Costa Rica, all ecosystem types, as part of the OTS Course on Plant Systematics. Two months, 1996
Ecuador, all continental ecosystems: 1982-1989; 1998-2001; 2015-Present
Mexico, cloud forest of Central and Western Mexico, 2012
Panama, cloud forests, 2011
Taiwan, lowlands and highlands, 2013.
Uruguay, dry forest and wetlands, 2008
USA, Massachusetts, Missouri, New Jersey, Pennsylvania, New York, Arizona 2002-2015, 2019

Society Memberships

Asociación Botánica Ecuatoriana ABE, 2016-Present
Sigma XI, The Scientific Research Society, 2011-Present
Society for Herbarium Curators, Life Member
Philadelphia Botanical Club, 2006-2016
International Association for Plant Taxonomy, 1998-Present
American Society of Plant Taxonomy, 1997-Present
Association for Latin American Botanists, ALB, 1987-Present
Botanical Society of America, 1997-1998

Workshops Attended

Kew Herbarium Techniques, August, Brooklyn Botanic Garden, New York, USA, 2012
Integrated Pest Management for Museums, Libraries and Archives, March 31--May 9. Online Workshop, 2008
Latin American and Caribbean Botanical Workshop, Smithsonian Institution. July to August. USA, 1989

Meetings Attended

Botanical Society of America Meetings, Tucson, July 2019
XIX International Botanical Congress and Nomenclature Sessions, Shenzhen, China, 2017.
Botanical Society of America Meetings, Edmonton, Canada, 2015
Global Plants Initiative, 5th Annual Meeting, Madrid, Spain, 2012
X Congreso Latinoamericano de Botánica, La Serena, Chile, 2010
Botanical Society of America Meetings, Snow Bird, Utah, USA, 2009
XVII International Botanical Congress, July, Vienna, Austria, 2005
VIII Congreso Latinoamericano de Botánica, Cartagena de Indias, October, Colombia, 2002
XVI International Botanical Congress, August, St. Louis, USA, 1999