

Alina Freire-Fierro

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Born in Ecuador, 1964; US Citizen

DEGREES

- 1998 M. Sc., Department of Biology, University of Missouri-St. Louis, St. Louis, USA. Thesis title: "Revision of *Aciotis* (Melastomataceae)," 160 pp. (English). Advisor: Susanne Renner.
- 1992 M. em C., Biociências Institute, São Paulo University. Brazil. Thesis title: "Estudos taxonômicos dos subgêneros de *Monnina* Ruiz & Pav. (Polygalaceae), baseados em espécies equatorianas e brasileiras," 190 pp. (Portuguese). Advisor: Ana Maria Giulietti.
- 1989 Bachelor's Degree in Biological Sciences, Biology Department, Catholic University. Ecuador. Bachelor's Dissertation Title: "Estudios taxonómicos de las especies arbustivas de *Monnina* en el Bosque Montano Ecuatoriano," 194 pp. (Spanish). Advisor: Peter M. Jørgensen.

ADDITIONAL GRADUATE COURSES

- 2010- Ph.D. studies, Drexel University, Department of Environmental Sciences.
- 1996 Plant Systematics, Organization for Tropical Studies. June to August. Costa Rica.
- 1993 Botanical Diversity in Tropical Forests, European Summer School, Aarhus University. July. Denmark.
- 1991 Theory and Methods in Vegetal Taxonomy, Latin American Botanical Network. November. Argentina.
- 1989 Latin American and Caribbean Botanical Workshop, Smithsonian Institution. July to August. USA.

PROFESSIONAL EXPERIENCE

- 2006- Collection Manager, Botany Department, Academy of Natural Sciences, Philadelphia
- 2006-2008 Co-PI, NSF Project on Virtual Types at the Academy of Natural Sciences Herbarium, NSF Grant # #0545170.
- 2002-2006 Research Specialist and Latin American Research Visitors' Liaison, Missouri Botanical Garden.
- 2001 Assistant Coordinator of the project "Floristic Inventory and Rescue of native plants from Oleoductos de Crudos Pesados." Ecuadorian National Herbarium-Entrix-OCP. Quito, Ecuador.
- 2000 Oc-Organizer of the Third Ecuadorian Botanical Congress, Quito, October 25 to 27.
- 1999-2000 Teacher of General Botany, and Flora of Ecuador. Ecotourism Majors, Catholic University and San Francisco University, Quito, Ecuador.
- 1995 Teacher of General Botany, Biology Department, Catholic University, Quito, Ecuador.
- 1992 Assistant Professor of the courses: Taxonomy of Vascular Plants, and Systematics and Taxonomy of Angiosperms, Biology Department, Catholic University, Quito, Ecuador.
- 1989 Adjunct Researcher of the project "Botanical Studies of the Ecuadorian Mountain Forest," QCA Herbarium, Catholic University, Quito, Ecuador.
- 1988 Assistant Researcher of the project "Botanical Studies of the Ecuadorian Mountain Forest," QCA Herbarium, Catholic University, Quito, Ecuador.
- 1984-88 Herbarium Assistant at the QCA Herbarium, Catholic University, Quito, Ecuador.

PUBLICATIONS

Submitted

Freire-Fierro, A. and A. Landale. Lectotypification of Thomas Nuttall's names applied to North American *Polygala*. *Journal of the Botanical Research Institute of Texas*.

TAXONOMY

- Mathias, E.C., and A. Freire-Fierro. 2011. Howard Page Wood, 1924-2010 [Obituary]. *TAXON* 60: 297.
- Freire-Fierro, A. 2008. Crassulaceae. 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.
- 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.
- Freire-Fierro, A. 2008. Filadelfia y la Botánica en Norteamérica. *Bol. Soc. Argent. Bot.* 43 (1-2): 179-187.
- Freire-Fierro, A. 2002. Proposal to conserve *Ribes leptostachyum* Benth. against *Ribes leptostachyum* Decne. *Taxon* 51(1): 195.
- Freire-Fierro, A. 2002. A new species of *Ribes*, notes and a key of the Ecuadorian Species. *Systematic Botany* 27(1): 14--19.
- Freire-Fierro, A., D. Fernández y C. Quintana. 2002. Usos de Melastomataceae en el Ecuador. *Sida* 20(1) 233--260.
- Freire-Fierro, A. 2001. Two new species of *Aciotis* (Melastomataceae). *Novon* 11(2): 166-170.

- Freire-Fierro, A. 2001. *Aciotis*, Melastomataceae. In: Flora of the Venezuelan Guayana, Vol. 6: 270-276. *Monographs in Systematic Botany of the Missouri Botanical Garden*.
- Vargas, H., D. Neill, M. Asanza, **A. Freire-Fierro** y E. Narváez. 2001. *Flora y Vegetación del Parque Nacional Llanganates*. EcoCiencia-Herbario Nacional del Ecuador/GEF.
- Freire-Fierro, A. 2000. Polygalaceae. Pages 392-393 In: Valencia, R., N. Pitman, S. León-Yáñez & P. M. Jørgensen (eds.) *Libro rojo de las plantas endémicas del Ecuador 2000*. Herbario QCA, Pontificia Universidad Católica del Ecuador, Quito.
- Freire-Fierro, A. 1999. Crassulaceae, Grossulariaceae, Hydrangeaceae, and Saxifragaceae. In: Jørgensen, P. M. & S. León (eds.). Catalogue of the Vascular Plants of Ecuador. *Monographs on Systematic Botany from the Missouri Botanical Garden* 75: 413-414.
- Freire-Fierro, A. 1998. Two new species of *Ribes* (Grossulariaceae) from South America. *Novon* 4: 354-358.
- Freire-Fierro, A. 1998. Revision of *Aciotis* (Melastomataceae). *Am. J. Bot. (Suppl.)* 85 (6): 129.
- Freire-Fierro, A., P. Naranjo, et al. 1995. 270 *Plantas medicinales Iberoamericanas*, In Gupta, M. (ed.). Convenio Andrés Bello, Bogotá.
- Freire-Fierro, A. 1995. Especies medicinales sudamericanas de Polygalaceae. In: Naranjo, P. & R. Escaleras (eds.): *La medicina tradicional en el Ecuador*, Memorias de las Primeras Jornadas Ecuatorianas de Etnomedicina Andina. Biblioteca Ecuatoriana de Ciencias. Vol. 2. Corporación Editora Nacional, Quito.

BOOKS, MONOGRAPHS, FLORAS

- Freire-Fierro, A. 2004. *Botánica Sistemática Ecuatoriana*. Missouri Botanical Garden, FUNDACYT, QCNE, RLB and FUNBOTANICA. Murray Print, St. Louis. 209 pp.
- Freire-Fierro, A. 2004. 115. Crassulaceae. In: G. Harling and L. Andersson (eds.), Flora of Ecuador 73: 3-16.
- Freire-Fierro, A. 2004. 117 A. Saxifragaceae. In: G. Harling and L. Andersson (eds.), Flora of Ecuador 73: 17-24.
- Freire-Fierro, A. 2004. 117 B. Grossulariaceae. In: G. Harling and L. Andersson (eds.), Flora of Ecuador 73: 41-66.
- Romoleroux, K. & **A. Freire-Fierro**. 2004. 117 C. Escalloniaceae. In: G. Harling and L. Andersson (eds.), Flora of Ecuador 73: 67-84.
- Freire-Fierro, A. 2004. 117 D. Hydrangeaceae. In: G. Harling and L. Andersson (eds.), Flora of Ecuador 73:25-40.
- Freire-Fierro, A. 2004. 117 E. Phyllonomaceae. In: G. Harling and L. Andersson (eds.), Flora of Ecuador 73:85-86.
- Freire-Fierro, A. 2002. Revision of *Aciotis* (Melastomataceae). *Systematic Botany Monographs* 62: 1--99 pp.

EDITED WORKS

- 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.
- Asanza, M., **A. Freire-Fierro**, D. Neill, S. Sandoval y J. C. Welling (eds.) 2000. *Resúmenes del III Congreso Ecuatoriano de Botánica*. FUNBOTANICA y Herbario Nacional del Ecuador QCNE. Imprenta Hojas y Signos. Quito.

REVIEWER FOR

- Brittonia, Flora Fanerogâmica do Estado de São Paulo, Lundellia, Novon, Sida, Taxon, Boletín Latinoamericano de Etnobotánica, and Spanish Edition of the International Code of Botanical Nomenclature.

DISTINCTIONS AND FELLOWSHIPS

- 2006- Research Associate, Missouri Botanical Garden, St. Louis, USA.
- 2000-02 Research Associate, Missouri Botanical Garden, St. Louis, USA.
- 1995-98 Graduate Fellowship from the Science and Technology Ecuatorian Foundation (FUNDACYT). Ecuador.
- 1989 Master's Graduation "Cum Laude", São Paulo University, Brazil.
- 1989-92 Graduate Fellowship from the Latin American Botanical Network. Brazil.
- 1984-1988 Undergraduate Studentship from Catholic University, Ecuador.

FIELD EXPERIENCE

- 2008- USA, New Jersey (Pine Barrens), Pennsylvania (Poconos), Utah. Chile, Costa Rica, Colombia, Ecuador (Highlands), Panama.
- 2008 Uruguay, dry forest and wetlands.
- 2007 Argentina, Subtropical habitats, cerrado vegetation.
- 2005 Austria, Vienna, Serpentine vegetation.
- 1999-2001 Ecuador, several ecosystems, as the teacher of several college courses, and as a researcher at the Ecuadorian National Herbarium.
- 1998-99 Ecuador, páramo and Andean forests at the Antisana Ecological Reserve and Llanganates National Park.
- 1996 Costa Rica, all ecosystem types, as part of the OTS Course on Plant Systematics. Two months.

- 1994 Bolivia, volunteer work at Noel Kempf National Park. One week.
- 1990-92 Brazil, Caatinga, Cerrados and Campos Rupestres.
- 1989-90 Brazil, Campos Rupestres, Serra do Cipó, Grão Mogol. Monthly visits as part of my studies on *Monnina* (Polygalaceae).
- 1986-89 Ecuador, páramo, montane forest, dry interandean forests, as part of the project Botanical Studies of the Shrubby species of Ecuadorian Mountain Forests.
- 1982-86 Ecuador, all ecosystems, as part of field trips during undergraduate studies.

SINERGISTIC ACTIVITIES

- 2008- Steering Committee Member, Membership Chapter, Consortium of Northeastern Herbaria, USA-Canada.
- 2008- Corresponding Secretary, Philadelphia Botanical Club
- 2004- Creation/Administration of the Discussion list, Anuncios Botánicos, <http://espanol.groups.yahoo.com/group/Anunciosbotanicos/>
- 2002- Administration/Content Compilation of a webpage about Polygalaceae. www.neotropicos.net/Polygalaceae
- 1998-2002 Representative for Ecuador for the Latin American Botanical Association (ALB).
- 1999-2000 Executive Director of the Ecuadorian Foundation for Research and Development of Botany, FUNBOTANICA, Ecuador.
- 1995 President of the Ecuadorian Foundation for Research and Development of Botany, FUNBOTANICA, Ecuador.

SOCIETY MEMBERSHIPS

- 2006- Philadelphia Botanical Club
- 1998- International Association for Plant Taxonomy
- 1997- American Society of Plant Taxonomy
- 1987- Association for Latin American Botanists, ALB
- 1988- Ecuadorian Foundation for Research and Development of Botany, FUNBOTANICA
- 1997-98 Botanical Society of America
- 1997-98 Association for Tropical Biology
- 1989-92 Brazilian Botanical Society

MEETINGS ATTENDED

- 2011 Global Plants Initiative, 4th Annual Meeting, Panama City, Panama.
- 2010 XIII Congreso Latinoamericano de Botánica, La Serena, Chile.
- 2009 BSA Meetings, Snow Bird, Utah, U.S.A.
- 2008 LAPI Meetings, Buenos Aires, Argentina
- 2007 XXXI Jornadas Argentinas de Botánica, September, Corrientes, Argentina
- 2006 AAAS Meetings, February, St. Louis, U.S.A.
- 2005 XVII International Botanical Congress, July, Vienna, Austria.
- 2002 VIII Congreso Latinoamericano de Botánica, Cartagena de Indias, October, Colombia.
- 2000 III Congreso Ecuatoriano de Botánica, October, Quito, Ecuador (Co-organizer).
- 1999 XVI International Botanical Congress, August, St. Louis, USA.
- 1998 VII Congreso Latinoamericano de Botánica, Latin American Botanical Association, Latin American Botanical Network, Mexican Botanical Society, October, México.
- 1998 American Institute of Biological Sciences (AIBS) Meetings, American Society of Plant Taxonomists, Baltimore, August, USA.
- 1994 VI Congreso Latinoamericano de Botánica, Latin American Botanical Association, October, Mar del Plata, Argentina.
- 1992 XLIII Congreso Brasileiro de Botánica, Sociedad Brasileira de Botánica, Universidad Federal de Sergipe, January, Aracajú, Brazil.
- 1991 XLII Congreso Brasileiro de Botánica, Sociedad Brasileira de Botánica, Universidad Federal de Goiás, January, Goiás, Brazil.
- 1990 XLI Congreso Brasileiro de Botánica, Sociedad Brasileira de Botánica, Universidad Federal do Ceará, January, Fortaleza, Brazil.

Fluent in Spanish (Native language), Portuguese, and English.

HOBBIES

Martial arts (Aikido, Shindo Muso Ryu), kickboxing, outdoor activities, urban gardening, community activism.