

CURRICULUM VITAE
ALEJANDRA VASCO

Genomics Programm
Institute of Systematic Botany
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I PERSONAL INFORMATION

Born in Medellín, Colombia, 8 September 1977.

Languages. Spanish, English, Portuguese, German.

II EDUCATION

Postdoctoral Research Associate (2010-2013), The New York Botanical Garden, current position. Leaf development and phylogeny of the fern group *Elaphoglossum* section *Squamipedia* (Dryopteridaceae). Supervisor: Dr. Barbara Ambrose, Dr. Robbin C. Moran

Postdoctoral Research Associate (Feb-Jun 2010), The New York Botanical Garden. Phylogeny, diversification, and Evolutionary Trajectories in the "Terebinthaceae" (Anacardiaceae and Burseraceae). Supervisor: Dr. Douglas Daly

Ph.D. in Plant Sciences. City University of New York (CUNY)/ The New York Botanical Garden. February 2010. Dissertation Title: Systematics and Phylogeny of *Elaphoglossum* section *Lepidoglossa* (Dryopteridaceae). Advisor: Dr. Robbin C. Moran

M.S. in Biology. City University of New York (CUNY)/ The New York Botanical Garden. May 2007. Advisor: Dr. Robbin C. Moran

B. S. in Biology. University of Antioquia, Biology Department. Medellín, Colombia. December 2002. Advisor: Dr. Ricardo Callejas

III REFEREED PUBLICATIONS

Accepted Vasco, A. *Accepted*. Taxonomic revision of *Elaphoglossum* subsection *Muscosa* (Dryopteridaceae). *Blumea*

- 2010 Benavides, AM., Vasco, A., Duque, AJ., Duivenvoorden, JF. 2010. Association of vascular epiphytes with landscape units and phorophytes in humid lowland forests of Colombian Amazonia. *Journal of Tropical Ecology* 27: 1-15.
- 2009 Vasco, A., Moran, RC., Rouhan, G. 2009. Monograph of the *Elaphoglossum ciliatum* group (Dryopteridaceae). *Brittonia* 61 (3):241-272.
- Vasco, A., Moran, RC., Rouhan, G. 2009. Circumscription and phylogeny of the *Elaphoglossum ciliatum* group (E. sect. *Lepidoglossa*, Dryopteridaceae) based on cpDNA sequences. *Taxon* 58 (3): 825-834.
- 2006 Vasco, A. 2006. *Elaphoglossum gemmatum* (Elaphoglossaceae), a new proliferous species from Colombia. *Brittonia* 58: 1-3.
- 2005 Benavides, AM., Duque, AJ., Duivenvoorden, JF., Vasco, A., Callejas, R. 2005. A first quantitative census of vascular epiphytes in rain forests of Colombian Amazonia. *Biodiversity and Conservation* 14: 739-758

Abstracts

- 2010 Vasco, A., Moran, R.C. & Tulig, M. Electronic Monographs. In: *Abstracts of Botany 2010* (Botanical Society of America Annual Meeting), Providence, Rhode Island, USA.
- Ambrose, B., Vasco, A., Smalls, T. & Moran, R.C. Fern leaf evolution and development. . In: *Abstracts of Botany 2010* (Botanical Society of America Annual Meeting), Providence, Rhode Island, USA.
- 2009 Vasco, A. & Moran, R.C. Systematics and Phylogeny of *Elaphoglossum* section *Lepidoglossa* H. Christ (Dryopteridaceae): search for natural groups. In: *Abstracts of Botany 2009* (Botanical Society of America Annual Meeting), Sowbird, Utah, USA.
- Vasco, A. 2009. Sistemática y filogenia de *Elaphoglossum* sección *Lepidoglossa* H. Christ (Dryopteridaceae): buscando grupos naturales. In: Libro de resúmenes del Quinto Congreso Colombiano de Botánica. San Juan de Pasto 19-24 de Abril de 2009. Pag 43.
- 2008 Vasco, A., Rouhan, G. & Moran, R.C. 2008. Monographic and Phylogenetic Study of the *Elaphoglossum ciliatum* Clade (Dryopteridaceae). In: *Abstracts of Botany 2008* (Botanical Society of America Annual Meeting), Vancouver, Canada.
- 2007 Vasco, A., Moran, R.C., & Rouhan, G. 2007. Taxonomic Revision of the *Elaphoglossum ciliatum* group (Dryopteridaceae). In: *Abstracts of Botany 2007* (Botanical Society of America Annual Meeting), Chicago, USA.
- Vasco, A. 2007. Taxonomía y Filogenia del género *Elaphoglossum*: evidencias moleculares y morfológicas. In: Resúmenes del Cuarto Congreso Colombiano de

Botánica. *Actualidades Biológicas*, Supplement 1. Page 65.

Vasco, A., Moran, R.C., Rouhan, G. 2007. Revisión Taxonómica del Grupo de *Elaphoglossum ciliatum* (Dryopteridaceae). In: Resúmenes del Cuarto Congreso Colombiano de Botánica. *Actualidades Biológicas*, Supplement 1. Page. 288.

2005 Benavides, A.M., Duque, A., Duivenvoorden, J.F. & Vasco, A. 2005. Epiphyte distribution in the Amazonian landscapes. In: *Abstracts 4th International Canopy Conference, "Tropical versus Temperate forest"*, Leipzig, Germany. Page. 118.

2002 Vasco, A., Duque, A. & Callejas, R. 2002. Composición florística y distribución de epífitas vasculares en el Parque Nacional Natural Chiribiquete, Amazonia Colombiana. In: *Libro de resúmenes del VIII Congreso Latinoamericano de Botánica*. Cartagena de Indias 13-18 October de 2002. Page. 448.

Book Reviews

2008 Vasco, A. 2008. Helechos arborescentes de Guatemala: distribución, diversidad, usos y manejo, by Mario Véliz and Jorge Vargas. *American Fern Journal* 98 (3): 178.

V HONOURS

- 2010 -2013 **NSF Grant in Systematics**
Leaf development and phylogeny of the fern group *Elaphoglossum* section *Squamipedia* (Dryopteridaceae).
Postdoctoral Position for three years at the New York Botanical Garden's Genomics program.
- 2004 -2009 **Oliver Hazard Perry Fellowship**
The New York Botanical Garden Graduate Studies Program.
Research assistantship awarded to one student per year. The research assistantship covers tuition and stipend during five years to carry out PhD. studies.
- 2003 **Huygens Scholarships Program**
Nuffic: Netherlands Organization for International Cooperation in Higher Education
Scholarship covering tuition and stipend to spend three months at the Amsterdam University.
- 2002 **Best student in the Biology program.**
Awarded fellowship to do Masters Research at the University of Antioquia. Medellín, Colombia. Declined
- 1999 **Best advanced student in the Biology program.**
Tuition fellowship to finish the bachelor in science.

University of Antioquia. Medellín, Colombia.

VII RESEARCH EXPERIENCE

- 2010-2013 **Postdoctoral Research Associate**
Leaf development and phylogeny of the fern group *Elaphoglossum* section *Squamipedia* (Dryopteridaceae).
NSF grant (DEB).The New York Botanical Garden.
Supervisor: Dr. Barbara Ambrose, Dr. Robbin Moran
- 2009-2010 **Postdoctoral Research Assistant.**
Phylogeny, diversification, and Evolutionary Trajectories in the "Terebinthaceae"
(Anacardiaceae and Burseraceae)
NSF grant (DEB 0918600).The New York Botanical Garden.
Supervisor: Dr. Douglas Daly
- 2007-2009 **Research Assistant.**
Systematics of the fern genus *Megalastrum*
NSF grant (DEB 0717056). The New York Botanical Garden.
Project organization, and execution; databasing; WebPage designing and
management; field work.
Supervisor: Dr. Robbin Moran.
- 2004-2007 **Herbarium Curatorial Assistant.**
Herbarium of the New York Botanical Garden, Bronx, NY, USA
Sorting; filing; databasing (KeEMu); loan management
Supervisor: Dr. Lawrence Kelly
- 2004 **Research assistant.**
Molecular phylogeny of *Elaphoglossum*
NSF grant (DEB 0211969). The New York Botanical Garden.
DNA extraction, amplification, cloning, and sequencing; data analysis; field
work; manuscript preparation and submission.
Supervisor: Dr. Robbin Moran.
- 2004 **Contributor.**
Antioquia's vascular plants check list (*Elaphoglossum*)
Herbarium University of Antioquia (HUA), Colombia, and Herbarium of the
Missouri Botanical Garden Herbarium (MO), USA.

VIII TEACHING EXPERIENCE

- 2006 & 2007 **Guest Lecturer, Biological Systematics**
Department of Biology, Lehman College, CUNY
Developed and facilitated workshop on "assembling and analyzing
morphological data"

Professor: J. Rachlin

- 2007 **Teaching Assistant: Taxonomy of Ferns and Lycophytes**
Tutor: Dr. Jefferson Prado (Sao Paulo Botanical Garden)
IV Colombian Botanical Conference, Medellín-Colombia.
April 19-21
- 2005 **Teaching Assistant: Biology of Ferns and Lycophytes**
Tutor: Dr. Robbin C. Moran (The New York Botanical Garden)
Humboldt Field Research Institute, Steuben, Maine, USA
August 21 - 27
- 2003 **Teacher of General Biology and Laboratory.**
School of Natural and Exact Sciences
University of Antioquia. Medellín, Colombia.
- 2001 **Teaching Assistant.**
Vascular Plant Morphology
Biology Department
University of Antioquia. Medellín, Colombia.
- 2000 **Teaching Assistant.**
Vascular Plant Taxonomy
Biology Department
University of Antioquia. Medellín, Colombia.
- 1998, 1999 **Teaching Assistant.**
General Botany
Biology Department
University of Antioquia. Medellín, Colombia.

VIII SEMINARS PRESENTED

- 2010 ***Elaphoglossum*: taxonomia y sistematica de uno de los generos mas diversos de helechos tropicales.**
Instituto de Ciencia Naturales, Universidad Nacional de Colombia, Bogota.
October 20
- Electronic Monographs: Invited symposium Speaker**
Leveraging the use of herbarium collections in modern systematics—examples from Pteridology
Botany 2010, Providence
August 4
- El Género *Elaphoglossum*: Entendiendo la sistemática de uno de los grupos más diversos de helechos**
Universidad de Antioquia, Medellín, Colombia
July 26

MORPH Workshop

The leaf: Integrating Evolution, Development and Function

University of Colorado, Boulder, USA

January 29-31

- 2009 **Entendendo a sistemática de *Elaphoglossum* seção Lepidoglossa –
Dryopteridaceae**
Jardim Botânico do Rio de Janeiro, Brazil
December 16
- 2008 **Ferns from Colombia: Speaker**
American Fern Society, New York Chapter
The New York Botanical Garden, Bronx, USA
March 1
Elaphoglossum pages: the new era?
American Fern Society, New York Chapter
The New York Botanical Garden, Bronx, USA
November 1
- 2007 **Symposium “Comparative Biology of Ferns and Lycophytes”: Coordinator
and speaker**
Taxonomy and Phylogeny of the genus *Elaphoglossum*: molecular and
morphological evidences.
IV Colombian Botanical Conference, Medellín-Colombia.
April 25

IX OTHER ACTIVITIES

Ad hoc reviewer for American Fern Journal, Blumea, Brittonia, Darwiniana, Bonplandia

Web Sites maintained: <http://sweetgum.nybg.org/elaphoglossum/index.php>
<http://sweetgum.nybg.org/megalastrum/index.php>

Member of the American Fern Society, Asociación Latinoamericana de Pteridología, Botanical Society of America, Grupo de Estudios Botánicos UdeA, New York Academy of Sciences, Society of Systematic Biology, Torrey Botanical Club.

New York, April 2011