

**IVÁN JIMÉNEZ MARCOS**  
Curriculum Vitae as of March 12, 2014

**CONTACT INFORMATION:**

Center for Conservation and Sustainable Development  
Missouri Botanical Garden  
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**EDUCATION:**

Ph.D. Biology. Program in Ecology, Evolution and Systematics. University of Missouri-St. Louis. December 2004.  
Graduate field course: Ecología de Ecosistemas Amazónicos 99-13. Organization for Tropical Studies. July 1999.  
Graduate field course: II Curso de Ecología Tropical y Biología de la Conservación. La Planada. July 1992.  
B.S. Biology. Universidad de los Andes (Bogotá, Colombia). April 1991.

**APPOINTMENTS:**

Associate Scientist: Center for Conservation and Sustainable Development, Missouri Botanical Garden. November 2013 – Present.  
Assistant Curator: Center for Conservation and Sustainable Development, Missouri Botanical Garden. June 2006 – November 2013.  
Adjunct Assistant Professor, Department of Biology, University of Missouri St. Louis. 2011– Present.  
Postdoctoral Fellow: Center for Conservation and Sustainable Development, Missouri Botanical Garden. April 2005 – April 2006  
Teaching / Research Assistant, Department of Biology, University of Missouri-St. Louis (August 1997 - December 2004). Courses: Biometry and Introductory Biology.  
Teaching Assistant, Departamento de Biología, Universidad de los Andes (June 1993, 1994, December 1991, 1993, 1995, 1996).

**PUBLICATIONS:**

**Jiménez, I.** and R. E. Ricklefs. Diversity anomalies and spatial climate heterogeneity. *Global Ecology and Biogeography* (Accepted).  
Myers, J., J. Chase, **I. Jiménez**, P. Jørgensen, A. Araujo-Murakami, N. Paniagua-Zambrana, R. Seidel. 2013. Beta-diversity in temperate and tropical forests reflects dissimilar mechanisms of community assembly. *Ecology Letters* 16: 151–157 (DOI: 10.1111/ele.12021).  
Zapata, F. and **I. Jiménez**. 2012. Species delimitation in systematics: inferring morphological gaps across geographic space. *Systematic Biology* 61:179–194 (doi: 10.1093/sysbio/syr084).  
Sheth, S., T. Distler, L. G. Lohmann and **I. Jiménez**. 2012. Understanding bias in geographic range size estimates. *Global Ecology and Biogeography* 21: 732–742 (DOI: 10.1111/j.1466-8238.2011.00716.x).

- Distler, T., P. M. Jørgensen, A. Graham, G. Davidse and **I. Jiménez**. 2009. Determinants and prediction of broad scale plant richness across the Western Neotropics. *Annals of the Missouri Botanical Garden* 96: 470-491 (DOI:10.3417/2008034).
- Jiménez, I., T. Distler and P. M. Jørgensen. 2009. Estimated plant richness pattern across northwest South America provides similar support for the species-energy and spatial heterogeneity hypotheses. *Ecography* 32:433-448 (DOI: 10.1111/j.1600-0587.2008.05165.x).
- Sheth, S., **I. Jiménez**, T. Consiglio, and L. G. Lohmann. 2008. Effects of detectability on estimates of geographic range size in Bignoniaceae (Bignoniaceae). *Conservation Biology* 22:200-211 (doi: 10.1111/j.1523-1739.2007.00858.x).
- Loiselle, B. A., P. M. Jørgensen, T. Consiglio, **I. Jiménez**, J. G. Blake, L. G. Lohmann, and O. M. Montiel. 2008. Evaluating plant collection representation for ecological niche modeling: a case study using plant vouchers from Ecuador and Bolivia. *Journal of Biogeography* 105-116.
- Cadena, C. D., R. E. Ricklefs, **I. Jiménez**, E. Bermingham. 2005. Is speciation driven by species diversity? *Nature* 438, doi:10.1038/nature04308.
- Jiménez, I.** 2004. Understanding vertebrate frugivores through foraging theory: patch-use, diet composition and the abundance of curassows (Aves: Cracidae). Ph.D. Thesis, Univ. Missouri-St. Louis, Missouri, USA.
- Jiménez, I.** y C. D. Cadena. 2004. Por qué no liberar animales silvestres decomisados. *Ornitología Colombiana* 2:53-57.
- Jiménez, I.**, G. A. Londoño, and C. D. Cadena. 2003. Efficiency, bias, and consistency of visual and aural surveys of curassows (Cracidae) in tropical forests. *Journal of Field Ornithology* 74:210-216.
- Jiménez, I.**, J. L. Parra, M. Agudelo, G. A. Londoño, and Y. Molina. 2001. Temporal variation in the diet of black curassows. Pages 195-211 *in* D. M. Brooks and F. Gonzalez-Garcia, eds. *Cracid ecology and conservation in the new millennium*. Houston Museum of Natural Science, Houston.
- Cadena, C. D., J. L. Parra, C. A. Mejía, M. Alvarez, **I. Jiménez**, M. Santamaria, C. A. Botero, G. D. Mejia, A. M. Umaña, J. Aldana, G. A. Londoño and A. Calixto. 2000. The birds of Tinigua National Park, Colombia: an overview of ornithological research at the CIEM. *Cotinga* 13:46-54.
- Jiménez, I.**, J. Aldana, C. D. Cadena, and J. Forero. 1998. How does the diet of a curassow vary within a week? *Field Studies of Fauna and Flora, La Macarena, Colombia* 12:33-40.
- Jiménez, I.**, and C. A. Mejía. 1998. Breeding biology of *Hoploxypterus cayanus* (Charadriidae) at the Rio Duda. *Field Studies of Fauna and Flora, La Macarena, Colombia* 12:1-8.
- Alvarez, M., **I. Jiménez**, C. A. Mejía, and M. Santamaría. 1993. Bird species at the CIPM, Tinigua National Park: a partial list. *Field Studies of New World Monkeys, La Macarena, Colombia* 8:33-40.

#### **MANUSCRIPTS CURRENTLY IN REVIEW OR REVISION:**

- Gruhn, J. A., **I. Jiménez**, K. M. Hiser, J. Wen, and R. E. Ricklefs. Plants conserve thermal tolerances across deep evolutionary time. In review in *Science*.
- Sheth, S., **I. Jiménez** and A. Angert. Identifying the paths leading to variation in geographical range size in western North American monkeyflowers. In review in *Journal of Biogeography*.
- Sanín, C., **I. Jiménez**, J. Fjeldså, C. Rahbek & C. D. Cadena. How much spatial variance in broad-scale species richness can be accounted for by diversification rates? In revision for submission to *American Naturalist*.

## SCHOLARSHIPS AND GRANTS:

- 2010: Institute of Museum and Library Services (US\$ 486,885), Co-PI (PI: Matthew Albrecht, Missouri Botanical Garden): Effects of climate change on midwest plants.
- 2008: National Science Foundation (US\$ 468,339), Co-PI (PI: Peter Jørgensen, Missouri Botanical Garden): Understanding the spatial patterns of diversity of montane forests in Northern Bolivia.
- 2007: National Geographic (US\$ 21,869), Co-PI (PI: Carmen Ulloa Ulloa, Missouri Botanical Garden): Distribution patterns and conservation of Andean Melastomataceae.
- 2007: Conservation Internacional (US\$ 20,000): Identificación de especies con distribución restringida en los Andes tropicales.
- 2003: American Ornithologists' Union (US\$ 1,800)
- 2003: International Center For Tropical Ecology at the University of Missouri-St. Louis, Conservation Internship Award (US\$ 3,000).
- 2000: Saint Louis Zoological Park, Field Research for Conservation Program (US\$ 10,000).
- 2000: Organization for Tropical Research, Glaxo Pharmaceutical Endowment (US\$ 1,500).
- 1999: Department of Biology, University of Missouri-St. Louis, Arnold B. Grobman Scholarship Award (US\$ 550).
- 1999: International Center For Tropical Ecology at the University of Missouri-St. Louis, Parker-Gentry Research Fellowship (US\$ 2,500).
- 1999: International Center For Tropical Ecology at the University of Missouri-St. Louis, Compton Fund Fellowship (US\$ 13,200).
- 1999: International Center For Tropical Ecology at the University of Missouri-St. Louis, John Denver Memorial Scholarship (US\$ 2,500).
- 1997: International Center for Tropical Ecology at the University of Missouri-St. Louis, General Services Foundation Fellowship (US\$ 4,400).

## CONTRIBUTED PRESENTATIONS:

- Greg, M., Klein, L., Bogler, D., **Jimenez, I.**, Miller, A. Morphometric analysis of leaf variation in three North American grape species (*Vitis acerifolia*, *V. riparia*, and *V. rupestris*). July 2013, New Orleans, Louisiana, Louisiana. Meeting of the Botanical Society of America (poster presentation).
- Tello, J. S., **Jiménez, I.** Jørgensen, P. M., Myers, J., Macia, M., Fuentes-Claros, A. F., Cayola-Pérez, L. Arellano, G., Cornejo-Mejía, M., Loza-Rivera, M. I., Quisbert-Quispe, J., Torrez, V. Elevational gradients in beta-diversity reflect both regional effects and scale-dependent variation in the strength of local assembly processes. June 2013, San José, Costa Rica. International meeting of the Association for Tropical Biology and Conservation (oral presentation).
- Jiménez, I.** and Zapata, F. Delimitación de especies: inferencia de las discontinuidades morfológicas. Octubre 2012, La Paz, Bolivia. Congreso Boliviano de Botánica (oral presentation).
- Tello, J. S., **Jiménez, I.**, Jorgensen, P., Myers, J., Macía, M. J., Fuentes-Claros, A. F., Cayola-Pérez, L., Loza-Rivera, M. I. Efectos de gama-diversidad y muestreo en la beta-diversidad a lo largo de un gradiente elevacional en la region de Madidi (Bolivia). Octubre 2012, La Paz, Bolivia. Congreso Boliviano de Botánica (oral presentation).
- Sheth, S, **Jiménez, I.**, and Angert, A. L. Effects of niche properties on variation in geographic range size among species of western North American monkeyflowers. August 2012, Portlan, Oregon. Ecological Society of America Meeting (oral presentation).

- Sanin, C., **Jiménez, I.** Fjelsdå, Jon., Rahbek, C., Cadena, C. D. How much spatial variance in species richness of of suboscines? August 2012, Vancouver, British Columbia. North American Ornithological Conference (poster presentation).
- Tello, J. S., **Jiménez, I.**, Jorgensen, P., Myers, J., Macía, M. J., Fuentes-Claros, A. F., Cayola-Pérez, L., Loza-Rivera, M. I. Beta-diversity, gamma diversity, and stochastic processes along a tropical elevational gradient. August 2012, Portlan, Oregon. Ecological Society of America Meeting (oral presentation).
- Callen, S., **Jimenez, I.**, Knouft, J., Miller, A. Climatic niche shift in kudzu, *Pueraria montana* var. *lobata*, upon invasion into North America. July 2012, Columbus, Ohio. Meeting of the Botanical Society of America (oral presentation).
- Zapata, F. and **Jimenez. I.** Mind the gap: Species delimitation using morphological data. July 2012, Columbus, Ohio. Meeting of the Botanical Society of America (oral presentation).
- Myers, J. A., Chase, J. M.; **Jiménez, I.**, Jørgensen, P. M., Araujo, A., Paniagua Z. N. Y. and Seidel, R. Disentangling regional, environmental, and spatial influences on beta-diversity in temperate and tropical forests. August 2011, Austin, Texas, Ecological Society of America Meeting (oral presentation).
- Vela Diaz, D. and **Jiménez, I.** Species delimitation: identifying the most relevant dimensions to infer gaps in morphology. July 2011, St. Louis, Missouri. Meeting of the Botanical Society of America (oral presentation).
- Myers, J. A., Chase, J. M.; **Jiménez, I.**, Jørgensen, P. M., Araujo, A., Paniagua Z. N. Y. and Seidel, R. Disentangling regional, environmental, and spatial influences on beta-diversity in temperate and tropical forests. July 2011, St. Louis, Missouri. Meeting of the Botanical Society of America (oral presentation).
- Hodge, J. and **Jiménez, I.** Testing the niche width hypothesis using *Quercus* species endemic to the conterminous US, July 2011, St. Louis, Missouri. Meeting of the Botanical Society of America (poster presentation).
- Sheth, S., Distler, T., Lohmann, L. and **Jiménez, I.** The Wallacean shortfall: bias in estimates of geographic range size. July 2011, St. Louis, Missouri. Meeting of the Botanical Society of America (oral presentation).
- Myers, J. A., Chase, J. M., Jorgensen, P. M., **Jiménez, I.**, Seidel, R., Paniagua-Zambraba, N. and Araujo-Murakami A. Comparing biogeographical, spatial and environmental influences on patterns of beta-diversity among temperate and tropical tree communities. January 2011, Crete, Greece. International Conference of the International Biogeography Society (poster presentation).
- Zanne, A., D. Coomes, **I. Jiménez** and P. Jørgensen. Effects of growth form on woody angiosperm vessel anatomy. July 2010, Bali, Indonesia. International meeting of the Association for Tropical Biology and Conservation (oral presentation).
- Ricklefs, R. E., and **Jimenez, I.** Time of separation and ecological distribution of eastern Asia-eastern North America disjunct plants. May 2009, Mérida, Mexico. International Conference of the International Biogeography Society (oral presentation).
- Jimenez, I** and Ricklefs, R. E. Spatial structure of the environment of Eastern Asia-North America disjunct floras. May 2009, Mérida, Mexico. International Conference of the International Biogeography Society (oral presentation).
- Hong-Wa, C., Distler, T., Schatz, G. E., Lowry II, P.P. & **Jimenez, I.** Determinants of broad-scale plant species richness across Madagascar. July 2008, Vancouver. International Conference of the Botanical Society of America (oral presentation).

- Preston, J. C., Davidse, G., Consiglio, T., and **Jimenez, I.** Future Climate and Habitat Tracking by Meso-American Grasses. February 2008, Panama, Panama. Climate Change and Biodiversity in the Americas Symposium, Smithsonian Tropical Research Institute (oral presentation).
- Feria, T. P., Consiglio, T., Espinosa-Organista, D. N., and **Jimenez, I.** Niche breadth and niche position predict global and regional range size across *Bursera* species (Burseraceae). July 2007, Chicago, Illinois. Meeting of the Botanical Society of America (oral presentation).
- Preston, J. C., Davidse, G., Consiglio, T., and **Jimenez, I.** Future climate change and habitat tracking by highland grasses endemic to Central America. July 2007, Chicago, Illinois. Meeting of the Botanical Society of America (oral presentation).
- Sheth, S. Lohmann, L., Consiglio, T and **Jiménez, I.** Extinction risk in Bignoniaceae (Bignoniaceae): a phylogenetic perspective. July 2007, Chicago, Illinois. Meeting of the Botanical Society of America (oral presentation).
- Sheth, S., Lohmann, L., **Jiménez, I.**, and Consiglio, T. Riesgo de extinción en Bignoniaceae (Bignoniaceae) estimado con datos de herbario: una perspectiva crítica. June 2006, Santo Domingo, República Dominicana. Congreso Latinoamericano de Botánica.
- Consiglio, T, **Jiménez, I.** and Jørgensen, P. Determinantes de la riqueza de especies de plantas vasculares en el noroeste de Sur América. June 2006, Santo Domingo, República Dominicana. Congreso Latinoamericano de Botánica (oral presentation).

#### **INVITED PRESENTATIONS:**

- Jiménez, I.**, I. Loza, S. Tello, P. Jørgensen, A. F. Fuentes, L. Cayola, M. Cornejo, M. J. Macía, G. Arellano, T. B. Miranda, J. Quisbert-Quispe, and V. Torrez. Assembly of a regional flora in the tropical Andes. January 2014. 3rd meeting of the Network for Neotropical Biogeography, Bogotá, Colombia.
- Jiménez, I.**, I. Loza, S. Tello, P. Jørgensen, A. F. Fuentes, L. Cayola, M. Cornejo, M. J. Macía, G. Arellano, T. B. Miranda, J. Quisbert-Quispe, and V. Torrez. Assembly of a regional tree flora in the tropical Andes. September 2013. St. Louis Ecology, Evolution, and Conservation (SLEEC) Retreat.
- Jiménez, I.**, Distler, T., Jørgensen P., Zapata, F. Graham, A. Davidse, G. and Robert E. Ricklefs. Broad scale plant richness across the Neotropics. June 2010. Herbario Nacional, Universidad Mayor de San Andrés, La Paz, Bolivia.
- Jiménez, I.**, Distler, T., Jørgensen P., Zapata, F. Graham, A. Davidse, G. and Robert E. Ricklefs. Broad scale plant richness across the Northern Neotropics: relative roles of diversification and colonization. October 2009. Department of Biology, Washington University.
- Jiménez, I.**, Distler, T., Jørgensen P., Zapata, F. Graham, A. Davidse, G. and Robert E. Ricklefs. Effect of spatial heterogeneity on broad scale plant richness across the Northern Neotropics: relative roles of diversification and net immigration. February 2009. Departamento de Biología, Universidad de los Andes, Bogotá, Colombia.
- Jiménez, I.**, Distler, T., Jørgensen P., Zapata, F. Graham, A. Davidse, G. and Robert E. Ricklefs. Determinants of broad scale variation in plant species richness across the Northern Neotropics. November 2008. Evolutionary Morphology Seminar, Department of the Geophysical Sciences and the Committee on Evolutionary Biology, University of Chicago.
- Jiménez, I.**, Distler, T., Jørgensen P., Zapata, F. Graham, A. and Davidse, G. Determinants of broad-scale variation in plant species richness across the Northern Neotropics. September 2008. Department of Biology, University of Missouri-Columbia.

**Jiménez, I.**, Distler, T., Jørgensen P., Zapata, F., Graham, A. and Davidse, G. Determinants of broad-scale variation in plant species richness across the Northern Neotropics. October 2007. Annual Systematics Symposium of the Missouri Botanical Garden: “Biodiversity and Conservation in the Andes.”

**Jiménez, I.** Unidad de Análisis: Estudios de patrones espaciales de diversidad y distribuciones geográficas. July 2006. Departamento de Biología, Universidad de los Andes, Bogotá, Colombia.

#### **UNIVERSITY ADVISING:**

M.S. thesis committee member: Isabel Loza, University of Missouri-St. Louis (M.S. student), 2012–present

Ph.D. thesis committee member: Steven Callen, Saint Louis University, 2011–present

Ph.D. thesis committee member: Vincenzo Ellis, University of Missouri-St. Louis, 2011–present

Ph.D. thesis committee member: Eliot Miller, University of Missouri-St. Louis, 2011–present

Ph.D. thesis committee member: Oyomoare Osazuwa-Peters, University of Missouri-St. Louis, 2011–present

Ph.D. thesis committee member: Kristin Powell, Washington University, 2012–2013

M.S. thesis committee member: Elvis Valderrama, University of Missouri-St. Louis, 2010–2013

M.S. thesis committee member: Dilys Vela, University of Missouri-St. Louis 2011–2012

M.S. thesis committee member: Vania Torres, University of Missouri-St. Louis, 2009–2011

Rotation student advisor: Jennifer Gruhn, Washington University (Ph.D. student)

Internship student advisor: John Hodge, University of Missouri-St. Louis (undergraduate student)

Internship student advisor: Micajah Dudley, Washington University (undergraduate student, “Students at the Garden” class)

Internship student advisor: Corneille Ewango, University of Missouri-St. Louis (M.S. student)

Internship student advisor: Emily Geest, University of Missouri-St. Louis (undergraduate student)

Internship student advisor: Matthew Greg, MBG (NSF Research Opportunities for Undergraduates Program) and Saint Louis University (undergraduate student)

Internship student advisor: Jill Preston, University of Missouri-St. Louis (Ph.D. student)

#### **PROFESSIONAL SERVICE AND OUTREACH:**

Journal reviews: *Acta Oecologica*, *American Journal of Botany*, *American Naturalist*, *Annals of the Missouri Botanical Garden*, *Annals of the New York Academy of Sciences*, *Applied Vegetation Science*, *Biodiversity and Conservation*, *Biological Conservation*, *Caldasia*, *Diversity and Distributions*, *Ecology*, *Ecography*, *Global Ecology and Biogeography*, *Journal of Biogeography*, *Journal of Field Ornithology*, *Journal of Nature Conservation*, *Journal of Zoology*, *Landscape Ecology*, *Natural Areas Journal*, *Nature*, *Ornitología Colombiana*, *Ornitología Neotropical*, *PLoS One*, *Proceedings of the National Academy of Sciences*, *Proceedings of the Royal Society B*, *Systematics and Biodiversity*.

Grant proposal reviews: Missouri Botanical Garden, National Geographic Society, National Science Foundation.

Journal club: Since 2006 led a journal club at the Missouri Botanical Garden (MBG) to discuss papers on ecology, evolution, conservation and systematics; meetings are held weekly during the academic semester and attended by students and faculty from MBG, Saint Louis University, University of Missouri St. Louis and Washington University. <http://mobot-biodiversity-jc.weebly.com/spring-2014.html>

R workshop: a three-day workshop co-taught with Sebastián Tello (Assistant Scientist at the Missouri Botanical Garden) aiming to introduce the R computer language (<http://www.r-project.org/>) as a tool to analyze biodiversity data. The workshop is designed for professionals and students engaged in research. Since October of 2012 we have taught three instances of the workshop, two in La Paz, Bolivia, each with 20 attendees, and one in St. Louis, Missouri, with 35 attendees.

Service in committees: MBG Search Committees (for 2 Postdoctoral Fellows, 1 Assistant Curator, 1 Assistant Scientist) 2007–2013; University of Missouri-St. Louis Search Committee for the Des Lee Position in Botanical Studies, 2013; MBG Fellowships Proposal Review Committee, 2012; MBG coordinator for the St. Louis Behavior, Ecology, Evolution, and Systematics Retreat, 2011; Coordinator Conservation Committee for MBG's Internal Review, 2011; Climate Change Committee for MBG's Internal Review, 2011; Internal Review Committee for The Wild Care Institute (Saint Louis Zoo), 2010.