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Louisiana State University
Dept. of Biological Sciences
Shirley C. Tucker Herbarium

EDUCATION

- 2015 **Harvard University**
Ph.D., Organismic and Evolutionary Biology
Graduate Certificate in Latin American Studies
- 2008 **University of California, Berkeley**
B.S., Genetics and Plant Biology with Honors and Highest Distinction

ACADEMIC APPOINTMENTS

- 2017– **Assistant Professor**, Department of Biological Sciences &
Director, Shirley C. Tucker Herbarium, Louisiana State University
- 2015– **Associate Researcher**
Missouri Botanical Garden, St. Louis, MO
- 2015– 2017 **NSF Postdoctoral Research Fellow in Biology**
Interdisciplinary Research Using Biological Collections

PUBLICATIONS

- Lagomarsino, L.P.** and N. Muchhala. *In press*. A gradient of pollination specialization in Bolivian *Centropogon* (Campanulaceae: Lobelioideae). *American Journal of Botany*.
- Lagomarsino, L.P.** 2019. Rapid plant diversification in the Andes does not require flowers. *New Phytologist* 22: 11–13.
- Hoorn, C., R. van der Ham, F. de la Parra, S. Salamanca, H. ter Steege, H. Banks, W. Star, B. van Heuven, R. Langelan, F. Antunes-Carvalho, G. Rodriguez-Forero, and **L. P. Lagomarsino**. 2019. Going North or South: Rise, demise and migration of two fossil Malvaceae in the wake of Andean uplift and connectivity between the Americas. *Review of Paleobotany and Palynology*. doi: <https://doi.org/10.1016/j.revpalbo.2019.01.010>.
- Rabeler, R. K., H. T. Svoboda, B. Thiers, L. A. Prather, J. Macklin, **L. P. Lagomarsino**, L. C. Majure, and C. Ferguson. 2019. Herbarium practice and ethics, III. *Systematic Botany* 44(1): 7–13.
- Santamaría-Aguilar, D., A. F. Fuentes, and **L. P. Lagomarsino**. 2018. Three new species of *Freziera* (Pentaphragmaceae, Frezieraee) from Bolivia and Peru. *Phytotaxa*.
- Condamine, F.L., A. Antonelli, **L. P. Lagomarsino**, C. Hoorn, and L. H. Liow. 2018. Teasing apart mountain uplift, climate change and biotic drivers of speciation. Chapter in A. Antonelli and C. Hoorn, *Mountains, Climate, and Biodiversity*. Wiley.
- Lagomarsino, L. P.**, E. J. Forrester, N. Muchhala, and C. Davis. 2017. The repeated evolution of vertebrate pollination syndromes in a recently diverged Andean plant clade. *Evolution*. doi: 10.1111/evo.13297.
- Iles, W. J. D., C. Sass, **L. P. Lagomarsino**, G. Benson-Martin, H. Driscoll, and C. D. Specht. 2017. The phylogeny of *Heliconia* (Heliconiaceae) and the evolution of floral presentation. *Molecular Phylogenetics and Evolution*. doi: <http://dx.doi.org/10.1016/j.ympev.2016.12.001>
- Santamaría-Aguilar, D., A. and **L. P. Lagomarsino**. 2017. Two new species and a new combination in *Protium* (Burseraceae) from Costa Rica. *Phytokeys* 76: 89–113.
- Uribe-Convers, S., M. Carlsen, **L. P. Lagomarsino**, and N. Muchhala. 2017. Phylogenetic relationships of *Burmeistera* (Campanulaceae: Lobelioideae): Combining whole plastome and with targeted loci data in a recent radiation. *Molecular Phylogenetics and Evolution* 107: 551–563.

- Santamaría-Aguilar, D. and **L. P. Lagomarsino**. 2016. Two new Pentaphragaceae species from southern Central America. *Brittonia*. doi:10.1007/s12228-016-9453-1
- Santamaría-Aguilar, D., Neill, D. A., and **L. P. Lagomarsino**. 2016. A new species of *Freziera* (Pentaphragaceae) with large leaves and flowers from Ecuador. *Edinburgh Journal of Botany*. doi: <http://dx.doi.org/10.1017/S0960428616000147>
- Lagomarsino, L. P.**, F. Condamine, A. Mulch, A. Antonelli, and C. Davis. 2016. The abiotic and biotic drivers of rapid diversification in Andean bellflowers (Campanulaceae). *New Phytologist*. doi: 10.1111/nph.13920
- Lagomarsino, L.P.** and D. Santamaría-Aguilar. 2016. Two new species of *Siphocampylus* (Campanulaceae: Lobelioideae) from the Central Andes. *Phytokeys* 58: 105–117.
- Santamaría-Aguilar, D. and **L. P. Lagomarsino**. 2015. Synopsis of *Couepia* (Chrysobalanaceae) in Costa Rica, with a description of two new species. *Phytotaxa* 233(1): 69–79.
- Lagomarsino, L.P.**, D. Santamaría-Aguilar, and N. Muchhala. 2015. Two new species of *Burmeistera* (Campanulaceae: Lobelioideae) from the Cordillera de Talamanca of Costa Rica and Panama, with a key to the Central American species. *Systematic Botany* 40(3): 914–921.
- Lagomarsino, L. P.** and D. Santamaría-Aguilar. 2015. Lectotypification of Peruvian Campanulaceae names with collections made by Augusto Weberbauer. *Harvard Papers in Botany* 20(1): 77–79.
- Santamaría-Aguilar, D. and **L. P. Lagomarsino**. 2015. Cuatro nuevas especies y un nuevo registro de *Freziera* (Pentaphragaceae) de Ecuador and Perú. *J. of the Bot. Research Inst. of Texas* 9(1): 89–102.
- Lagomarsino, L. P.**, A. Antonelli, N. Muchhala, A. Timmermann, S. Mathews, and C. Davis. 2014. Phylogeny, classification, and fruit evolution of the species-rich Neotropical bellflowers (Campanulaceae: Lobelioideae). *American Journal of Botany* 101(12): 2097–2112.
- Santamaría-Aguilar, D., A. K. Monro, Q. Jiménez-Madrugal, and **L. P. Lagomarsino**. 2014. Two new species of *Freziera* (Pentaphragaceae) from Costa Rica. *Harvard Papers in Botany* 19(2): 219–225.
- Lagomarsino, L.P.**, A. L. Grusz, and R. C. Moran. 2012. Primary hemi-epiphytism and gametophyte morphology in *Elaphoglossum amygdalifolium* (Dryopteridaceae). *Brittonia* 64(2): 226–235.
- Kirchoff, B.K., **L.P. Lagomarsino**, W.H. Newman, M.E. Bartlett, and C.D. Specht. 2009. Early floral development of *Heliconia latispatha* Benth., a key taxon for understanding evolution of flower development in the Zingiberales. *American Journal of Botany* 96(3): 580–593.

Manuscripts in Submission

- Sarikaya, D.P., S. Church, **L. P. Lagomarsino**, K. M. Magnacca, S. L. Montgomery, D. Price, K. K. Kaneshiro, C. G. Extavour. *In review*. Reproductive capacity evolves in response to ecology through similar developmental mechanisms in Hawaiian *Drosophila*. *bioRxiv* doi: <https://doi.org/10.1101/470898>

Manuscripts in Preparation (Close to Submission)

- Carter*, I. L., **L. P. Lagomarsino**, and C. Davis. *In prep*. Host plant relationships predict herbivore communities on Hawaiian lobeliads. *Mentored undergraduate
- Stein, B. and **L. P. Lagomarsino**. *In prep*. New taxa in *Centropogon* subgenus *Centropogon*.

AWARDS AND FELLOWSHIPS

2018	Pan-American Scholar Award, Botanical Society of America
2017	Professional Members Travel Grant, Botanical Society of America
2016	Ernst Mayr Award, Society of Systematic Biologists
2015–2018	NSF Postdoctoral Research Fellowship in Biology 1523880

2010–2015	NSF Graduate Research Fellowship
2013	Tropical Biology Section Award, Botanical Society of America
2013	Nominee, Star Family Prize for Excellence in Undergraduate Advising, Harvard
2011, 2013	Certificate of Distinction, Bok Teaching and Learning Center, Harvard University
2009	James Mills Peirce Fellowship, Harvard University
2009	Young Botanist of the Year Award, Botanical Society of America
2007–2008	Barry M. Goldwater Scholarship
2008	Melis Medal, College of Natural Resources, UC Berkeley
2008	Departmental Citation, Plant and Microbial Biology, UC Berkeley
2006–2008	Nathan and Violet David Scholarship
2006–2007	Oski Bear Scholarship, UC Berkeley
2004–2008	Dean's List, UC Berkeley

RESEARCH FUNDING

2018–2020	Louisiana Board of Regents Support Fund, Research Competitiveness Subprogram. "Coevolution of hummingbird bills and flowers: The origin and maintenance of specialized interactions in the American tropics"
2018–2020	NSF DBI-1756469. CSBR: Natural History: Restructuring the Shirley C. Tucker Herbarium into a central hub for Louisiana botany via the consolidation of multiple herbaria. (with co-PI J. Kluse)
2016	Field Research for Conservation Grant, WildCare Institute, St. Louis Zoo
2012–2015	NSF Doctoral Dissertation Improvement Grant DEB-1210401
2011, 2013	Travel Grant, Rockefeller Center for Latin American Studies, Harvard
2012	Deland Award for Student Research, The Arnold Arboretum, Harvard
2012	Research Grant for Graduate Students, American Society of Plant Taxonomists
2012	Graduate Student Research Award, Botanical Society of America
2012	Exploration Fund Grant, The Explorer's Club
2010	Post-Course Grant, Organization for Tropical Studies- Costa Rica
2009	Women in Science Travel Grant, Botanical Society of America
2008	Sponsored Projects in Undergraduate Research
2008	ASUC Academic Opportunity Fund Grant, UC Berkeley

PRESENTATIONS

Invited Presentations

2018	"Hummingbirds, bats, and mountains: Evolution of Neotropical Bellflowers." Rancho Santa Ana Botanical Garden, Student-invited seminar. December 7.
2018	"Hummingbirds, bats, and mountains: Evolution of Neotropical Bellflowers." Biological Sciences Dept. seminar series, Mississippi State University. Nov 30.
2018	"Hummingbirds, bats, and mountains: Evolution of Neotropical Bellflowers." Biology Dept. seminar series, University of Florida, Gainesville, FL. Nov. 6.
2018	"The role of hummingbirds, bats, and mountains in speciation of Bolivian <i>Centropogon</i> ." Pan-American Scholar Symposium, XII Congreso Latinoamericano de Botánica, Quito, Ecuador. October 25.
2018	"The abiotic and biotic drivers of rapid diversification in Andean bellflowers." Symposium on <i>Ecología, Filogenómica y Biogeografía de la Flora de los Andes</i> , XII Congreso Latinoamericano de Botánica, Quito, Ecuador. October 25.

- 2018 "Evolution and diversification of Neotropical bellflowers." eFlower Summer Course, Oak Springs Foundation, Upperville, VA.
- 2018 "Promises and pitfalls of herbarium phylogenomics: A case study in a Neotropical plant radiation." Botany 2018, Rochester, MN. Part of "Herbaria in the Genomics Age" symposium, organized by M. McKain and L. Lagomarsino.
- 2018 "Disentangling the abiotic and biotic drivers of rapid plant evolution in the Andean biodiversity hotspot." Biology Departmental Seminar, Southeastern Louisiana University, Hammond, LA. April 19.
- 2017 "Disentangling the abiotic and biotic drivers of rapid plant evolution in the Andean biodiversity hotspot." NSF Research Using Biological Collections (RUBC) PRFB Symposium. Harvard University, Cambridge, MA. November 8.
- 2017 "The abiotic and biotic drivers of rapid diversification in Andean bellflowers." Student-invited speaker, Integrative Biology departmental seminar, University of Texas- Austin. October 30.
- 2017 "The abiotic and biotic drivers of rapid diversification in Andean bellflowers." Botany Departmental Seminar, University of British Columbia. October 24.
- 2016 "The evolution of Neotropical bellflowers (Campanulaceae): Rapid diversification and convergence in the rising Andes." Biology Colloquium, Departments of Botany and Zoology, University of Wisconsin, Madison, WI. September 22.
- 2016 "The abiotic and biotic drivers of rapid diversification in Andean lobelioids (Campanulaceae)." Botany 2016, Symposium on Plant Conservation and Research in the Andes, Savannah, GA. August 2.
- 2016 "Coevolución especializada en el mutualismo entre murciélagos, colibríes, y flores de la familia Campanulacea." N. Muchhala and **L. Lagomarsino** (joint talk, in Spanish). Museo Nacional de Historia Natural, La Paz Bolivia. March 14.
- 2016 "The evolution of Neotropical bellflowers (Campanulaceae): Rapid diversification and convergence in the rising Andes." Departmental Seminar, Louisiana State University, Baton Rouge, LA. January 28.
- 2015 "El levantamiento de los Andes en la diversificación y biogeografía de las Campanulaceas Neotropicales." **L. P. Lagomarsino**, F. Condamine, A. Antonelli, and C. Davis. Simposio de Biogeografía, VIII Congreso Colombiano de Botánica, Manizales, Colombia. August 2–6.
- 2010 "Primary hemi-epiphytism in *Elaphoglossum amygdalifolium*." **L. P. Lagomarsino**. Meeting of the New York Fern Society, New York Botanical Garden, New York. November 6.

Contributed Conference Presentations

- 2017 "The role of hummingbirds, bats, and mountains in speciation of Bolivian *Centropogon*." Botany, Ft. Worth, TX. June 26.
- 2017 "The repeated evolution of bat and hummingbird pollination in Neotropical bellflowers." Lightning talk, Society of Systematic Biologists Standalone Meeting, Baton Rouge, LA, January 9.
- 2016 "The repeated evolution of vertebrate pollination syndromes in the centropogonid clade, a recently diverged Andean plant clade." **L. P. Lagomarsino**, E. Forrestel, and C. Davis. Botany 2016, Savannah, GA. August 3.
- 2016 "The abiotic and biotic drivers of rapid diversification in Andean bellflowers (Campanulaceae)." SSB Ernst Mayr Award* Symposium, Evolution 2016, Austin TX. June 18. ***co-winner**

- 2015 “Both abiotic and biotic factors drive explosive plant diversification in the Andes.” **L. P. Lagomarsino**, F. Condamine, A. Antonelli, and C. Davis. Network for Neotropical Biogeography, Panama City, Panama. January 15–16.
- 2014 “Phylogenetics, classification, and fruit evolution of the species-rich Neotropical bellflowers (Campanulaceae: Lobelioideae).” **L. P. Lagomarsino**, A. Antonelli, N. Muchhala, S. Mathews, C. Davis. Botany, Boise, ID. July 26–30.
- 2014 “Phylogeny and systematics of the Neotropical Lobelioideae.” **L. P. Lagomarsino**, A. Antonelli, N. Muchhala, S. Mathews, and C. Davis. Poster session, Harvard Plant Biology Symposium, Boston, MA. May 8–9.
- 2013 “Of bat, birds, and berries: Evolution of the Neotropical bellflowers.” **L. P. Lagomarsino**, A. Antonelli, N. Muchhala, C. Davis. Botany, New Orleans, LA. July 27–31.
- 2010 “Evolution of Tropical *Heliconia*: Ecological and Spatial Diversification at the Species Level.” C. D. Specht, C. Sass, **L. P. Lagomarsino**, J. J. Xue, S. Fraley, and W. J. Kress. Botany, Providence, RI. July 31–August 4.
- 2009 “Phylogeny and floral evolution of *Heliconia* subgenus *Heliconia*.” **L. Lagomarsino**, W. J. Kress, V. Gowda, E. J. Temeles, and C. D. Specht. Botany and Mycology, Snowbird, UT. July 25–29.
- 2008 “Molecular phylogeny and evolution of *Heliconia* (Zingiberales: Heliconiaceae).” **L. Lagomarsino**, W. J. Kress, C.D. Specht. Botany, Vancouver, British Columbia. July 26–30.
- 2007 “Phylogeny reconstruction and floral evolution in *Heliconia* subgenus *Heliconia*.” Research Training Program, National Museum of Natural History (Smithsonian Institution), Washington, D.C.
- 2006 “Molecular systematics and DNA barcode analysis for *Heliconia*.” Poster session, Botany 2006 meeting, Chico, CA. July 28–August 2.

Departmental Presentations

- 2015 “Systematics and evolution of Neotropical bellflowers (Campanulaceae: Lobelioideae).” Biolunch Seminar Series, University of Missouri- St. Louis. October 14.
- 2015 “Systematics and evolution of Neotropical bellflowers (Campanulaceae: Lobelioideae).” Ph.D. Dissertation Defense, Harvard University, Cambridge, MA. June 12.
- 2015 “Both biotic and abiotic factors drive explosive plant diversification in the Andes.” Student Seminar Series, Dept. of Organismic and Evolutionary Biology, Harvard University, Cambridge, MA. February 3.
- 2014 “The importance of museums in modern biological research.” Student Seminar Series, Dept. of Organismic and Evolutionary Biology, Harvard University. December 2.
- 2013 “Of bats, birds, and berries: The evolution of Neotropical bellflowers.” G4 Symposium, Dept. of Organismic and Evolutionary Biology, Harvard University, April 26.
- 2011 “Systematics and preliminary molecular phylogeny of the exclusively Neotropical clade of Lobelioideae.” Harvard University Herbaria Seminar Series. February 15.

TEACHING EXPERIENCE

Courses Taught

- 2019 Plant and Human Affairs, LSU
- 2018 Co-coordinator, *Tropical Plant Systematics*, Organization for Tropical Studies- Costa Rica (5-week summer field course)
- 2013 Teaching fellow, *Plant Systematics*, Harvard University.
- 2011 Teaching fellow, *Trees, Forests, and Global Change*, Harvard University.

- 2011 Invited Professor, *Sistemática de Plantas Tropicales*, Organization for Tropical Studies-Costa Rica (field course in Spanish)
- 2006–2008 Lead Facilitator and Administrator, *Teaching Mad Science*, Democratic Education at Cal, UC Berkeley and Willard Middle School, Berkeley, CA

Mentoring

- Graduate Students—Janet Mansaray (PhD, 2018 –)
- Postdoctoral scholars—Lauren A. Eserman (2017–2018), Laura Frost (2018–)
- Dissertation Committee Member—Anna Hiller (LSU; 2017–); Manfred Boehm (UBC; 2017–)
- Undergraduates advised—Lauren Frankel (visiting summer student from Grinnell College); Henry Crull (LSU, recipient of Discover research grant; 2017–); Inanna L. Carter (Honors thesis, Harvard University, 2013–2014)
- Laboratory Mentor—Simone Cappellari (Harvard, 2013), Carolina Gomez-Navarro (UC Berkeley, 2008), Sarah Fraley (UC Berkeley, 2008)

Workshops and Symposia Organized

- 2018 Invited workshop on inferring diversification rates at eFlower Summer School, organized by Hervé Sauquet, Susana Magallón, and Jürg Schönenberger.
- 2018 “Herbaria in the Genomics Age,” Colloquium co-organized with Michael McKain at Botany 2018, Rochester, MN.
- 2010 “PlantingScience: Fostering student scientific thinking through mentoring.” E. H. Jones, L. Super, **L. P. Lagomarsino**, L. K. Tuominen. Botany, Providence, RI.

OTHER RESEARCH AND PROFESSIONAL EXPERIENCE

- 2018 LSU Safe Space Training
- 2015 Student Curatorial Fellowship, Harvard University Herbaria
- 2015 Seminarian, Harvard Museum’s Seminar on Innovative Curatorial Practice
- 2009 Research Intern, Dept. of Botany, Smithsonian Institution National Museum of Natural History, Washington, D.C.
- 2007 Research Training Program (RTP) Intern, Smithsonian Institution National Museum of Natural History, Washington, D.C.
- 2006–2008 Undergraduate Researcher, Dept. of Plant and Microbial Biology, UC Berkeley.

SERVICE AND OUTREACH ACTIVITIES

Professional Services

- 2018–2020 Council member, Society of Systematic Biologists
- 2018–2020 Appointed to nominations committee, Society of Systematic Biologists
- 2018–2020 Graduate Student Research Award Committee, Botanical Society of America
- 2018–2020 Systematic Collections Committee, American Society of Plant Taxonomists
- 2016–2018 Panelist, “Careers in Botany: Interactive Career Panel & Lunch.” Botany meeting.
- 2013–2015 Founder and Organizer, Harvard Phylogenetics Journal Club
- 2012–present Webmaster, Campanulaceae Working Group website
- 2011–2012 Student Councilor, New England Botanical Club
- 2010–2011 Student Representative, Organismic and Evolutionary Biology, Harvard University
- 2009–2011 PlantingScience Master Plant Science Team, Botanical Society of America

Peer Review Services

Journal Editorial Service: Phytotaxa (subject editor: Campanulaceae; 2017–)

Journal Peer Review: American Journal of Botany; Annals of Botany; Applications in Plant Science; Austral Ecology; BMC Evolutionary Biology; Botanical Journal of the Linnean Society; Brittonia;

Caldasia; Evolution; Journal of Biogeography; Journal of the Botanical Research Institute of Texas; Molecular Phylogenetics and Evolution; New Phytologist; Phytotaxa; Proceedings of the Royal Society B; Systematic Biology; Taxon; Wiley
Grant Peer Review: National Science Foundation Review Panels; Society of Systematic Biologists

Outreach Activities

2019	LSUMNS Night at the Museum Herbarium Public Outreach Event
2019	Special Saturday- Plants!, LSU Museum of Natural Sciences
2018	LSU Girl's Night at the Museum
2017	<i>Lab Girl</i> herbarium tour, Dean's Book Club, LSU
2017	"Scientist Spotlight," Intro to Ecology and Evolution course, Boston College
2017	PLANTS mentor, Botany 2017, Ft. Worth, TX
2017	Panelist, Graduate School Workshop, Missouri Botanical Garden REU program
2017	Guest scientist, "Catalysts for Change," a STEM outreach program for St Louis Area female high school students at Washington University
2016	Interviewed for "Conversations about grad school and what happens next" article in Plant Science Bulletin (6) 1: 38–41.
2015	Harvard University Herbaria public exhibit, "Plants of Costa Rica's Amazingly Diverse Osa Peninsula." With Daniel Santamaría-Aguilar and Reinaldo Aguilar.
2014	Harvard University Herbaria public exhibit, "The incredible diversity of Neotropical bellflowers." Cambridge, MA.
2009–2015	PlantingScience Online Mentor
2012–2013	Host, Summer High School Science Program, Natural History Museums of Harvard University, Cambridge, MA.
2005–2006	Mentor, Environmental Sciences Teaching Program, UC Berkeley, CA.
2005–2006	Family Hike Leader and Children's Coordinator, Coastwalk California (NPO): Orange County (2005), Monterey County (2006)

FIELDWORK

Bolivia (various, 2011–2012; 2016; 2017), Costa Rica (various, 2010–2018), Dominica (2008) Panama (2012), Peru (2013), United States [CA, MA, ME, NH] (various, 2012–2014)

HERBARIA VISITED

Harvard University Herbaria (GH, A, etc.); Herbario Nacional Forestal Martín Cardenas (BOLV); Herbario Nacional, Costa Rica (CR); The Field Museum (F); University of Gothenburg, Sweden (GB); Instituto Nacional de Biodiversidad, Costa Rica (INB); Herbario Nacional de Bolivia (LPB); Missouri Botanical Garden (MO); Universidad Nacional Agraria La Molina, Peru (MOL); New York Botanical Garden (NY); University of Panama (PMA); Smithsonian Tropical Research Institute, Panama (SCZ); Universidad Nacional Mayor de San Marcos, Peru (SMF); United States National Herbarium-Smithsonian Institution (US); Herbario de Oriente de Bolivia (USZ) PARIS

LANGUAGES

English–Native

Spanish–Fluent

PROFESSIONAL SOCIETIES

American Society of Plant Taxonomists	Botanical Society of America
Golden Key International, UC Berkeley chapter	Society for the Study of Evolution
Phi Beta Kappa	Society of Systematic Biologists