

Laura P. Lagomarsino
www.lauralago.net
llagomarsino1@lsu.edu | +1-225-578-8555

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

EDUCATION

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|------|---|
| 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

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| 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

§open access

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- §**Lagomarsino, L. P.** & L. A. Frost. 2020. The central role of taxonomy in the study of Neotropical biodiversity. Invited manuscript, *Annals of the Missouri Botanical Garden* 105: 405-421.
- §Lendemer, J., B. Thiers, A. Monfils, J. Zaspel, E. Ellwood, A. Bentley, K. LeVan, J. Bates, D. Jennings, D. Contreras, **L. P. Lagomarsino**, P. Mabee, L. Ford, R. Guralnick, R. Gropp, M. Revelez, N. Cobb, K. Seltsmann, M. C. Aime. 2020. The Extended Specimen Network: A strategy to enhance US biodiversity collections, promote research and education. *BioScience*. doi: <https://doi.org/10.1093/biosci/biz140>.
- §Santamaría-Aguilar, D. A., R. Aguilar, and **L. P. Lagomarsino**. 2019. A taxonomic synopsis of *Virola* (Myristicaceae) in Mesoamerica, including six new species. *Phytokeys* 134: 1-82.
- Sarikaya, D.P., S. Church, **L. P. Lagomarsino**, K. M. Magnacca, S. L. Montgomery, D. Price, K. K. Kaneshiro, C. G. Extavour. 2019. Reproductive capacity evolves in response to ecology through common changes in cell number in Hawaiian *Drosophila*. *Current Biology* 29 (11): 1877-1884, e6.
- Lagomarsino, L.P.** and N. Muchhala. 2019. A gradient of pollination specialization in Bolivian *Centropogon* (Campanulaceae: Lobelioideae). *American Journal of Botany* 106(5): 633–642. doi: <https://doi.org/10.1002/ajb2.1276>
- §**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. Langelaan, F. Antunes-Carvalho, G. Rodriguez-Forero, and **L. P. Lagomarsino**. 2019. Going north and south: The biogeographic history of two Malvaceae in the wake of Neogene Andean uplift and connectivity between the Americas. *Review of Paleobotany and Palynology* 264 (5): 90-109.

- §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* (Pentaphylacaceae, Frezieraee) from Bolivia and Peru. *Phytotaxa*. 349(2): 101-114.
- 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. In C. Hoorn, A. Perrigo, & A. Antonelli (Eds.), *Mountains, Climate, and Biodiversity*. Hoboken, NJ: John Wiley & Sons.
- Lagomarsino, L. P.**, E. J. Forrestel, N. Muchhala, and C. Davis. 2017. The repeated evolution of vertebrate pollination syndromes in a recently diverged Andean plant clade. *Evolution* 71(8): 1970-1985.
- 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 Pentaphylacaceae 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* (Pentaphylacaceae) 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* (Pentaphylacaceae) 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-Madrigal, 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.

PUBLICATIONS IN REVIEW

Frost, L., N. O’Leary, **L. P. Lagomarsino**, D. Tank, and R. Olmstead. *In review*. Phylogeny, classification, and character evolution of tribe Citharexyleae (Verbenaceae).

Frost, L., D. Santamaría-Aguilar, D. Singletary, and **L. P. Lagomarsino**. *In review*. Herbarium phylogenomics reveals that the Andes are a biogeographic barrier for *Otoba* (Myristicaceae), an ecologically dominant Neotropical tree genus. bioRxiv: <https://doi.org/10.1101/2020.10.02.32436>

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

2020–2023	NSF DBI- 2001422: Digitization TCN: Collaborative Research: Building a global consortium of bryophytes and lichens: keystones of cryptobiotic communities.
2018–2021	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.
2018–2021	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.
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	§student-invited; ‡ in Spanish
2020	<ul style="list-style-type: none"> • Cornell University. September 24. (virtual) • ♯Chicago Botanic Garden. April 24. (♯postponed due to covid-19) • James. E. Rodman Lecture, Michigan State University, Dept. of Plant Biology, September 25. (virtual)
2019	<ul style="list-style-type: none"> • University of Alabama, Biology Department Seminar. January 31. (upcoming) • Dept. seminar, University of Louisiana- Lafayette. November 2. • 66th Annual Fall Symposium, <i>Origins and Maintenance of Neotropical Biodiversity</i>, Missouri Botanical Garden. October 11. • Departmental seminar, Ohio State University. September 12. • Dept. seminar, University of Southern Mississippi. September 6. • Society for the Study of Evolution Symposium on <i>Integrating Ecological Interactions in Macroevolution</i>. Evolution 2019, Providence, RI. June 24.
2018	<ul style="list-style-type: none"> • Burpee Seminar, Biology Dept, Bucknell University, Lewisburg, PA. April 18. • §Departmental seminar. Rancho Santa Ana Botanical Garden, December 7. • Departmental seminar, Mississippi State University. Nov 30. • Departmental seminar, University of Florida. Nov. 6. • Pan-American Scholar Symposium, XII Congreso Latinoamericano de Botánica, Quito, Ecuador. October 25. • ‡Symposium on <i>Ecología, Filogenómica y Biogeografía de la Flora de los Andes</i>, XII Congreso Latinoamericano de Botánica, Quito, Ecuador. October 25. • eFlower Summer Course, Oak Springs Foundation, Upperville, VA. • Symposium on <i>Herbaria in the Genomics Age</i>. Botany 2018, Rochester, MN. • Departmental seminar, Southeastern Louisiana University. April 19.
2017	<ul style="list-style-type: none"> • NSF Research Using Biological Collections PRFB Symposium. Cambridge, MA. November 8. • §Departmental seminar. University of Texas- Austin. October 30. • Departmental seminar, University of British Columbia. October 24.
2016	<ul style="list-style-type: none"> • Biology Colloquium, Departments of Botany and Zoology, University of Wisconsin, Madison, WI. September 22. • Symposium on Plant Conservation and Research in the Andes. Botany 2016, Savannah, GA. August 2. • ‡Seminar, Museo Nacional de Historia Natural, La Paz, Bolivia. March 14. • Department Seminar, Louisiana State University, Baton Rouge, LA. January 28.
2015	<ul style="list-style-type: none"> • ‡Symposium on Biogeography in the Andes, VIII Congreso Colombiano de Botánica, Manizales, Colombia. August 2–6.
2010	<ul style="list-style-type: none"> • Meeting of the New York Fern Society, New York Botanical Garden, Nov. 6.

- Symposium of the Research Training Program, National Museum of Natural History, Smithsonian Institution, Washington, D.C.

Contributed Conference Presentations

(Oral presentation unless otherwise noted)

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- 2019 • Botany 2019, Tucson, AZ. July 29. Poster session.
 - 2017 • Botany 2017, Ft. Worth, TX. June 26.
 - Society of Systematic Biologists Standalone Meeting, Baton Rouge, LA, January 9.
 - 2016 • Botany 2016, Savannah, GA. August 3.
 - SSB Ernst Mayr Award* Symposium, Evolution 2016, Austin TX. June 18. ***winner**
 - 2015 • Network for Neotropical Biogeography, Panama City, Panama. January 15–16.
 - 2014 • Botany 2014, Boise, ID. July 26–30.
 - Harvard Plant Biology Symposium, Boston, MA. May 8–9. Poster session.
 - 2013 • Botany 2013, New Orleans, LA. July 27–31.
 - 2010 • Botany 2010, Providence, RI. July 31–August 4.
 - 2009 • Botany 2009, Vancouver, British Columbia. July 26–30.
 - 2006 • Botany 2006, Chico, CA. July 28–August 2. Poster session.

Departmental Presentations

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- 2020 • ^ψLSU Museum of Natural Sciences seminar series (with J. Kluse). March 13.
(^ψpostponed due to covid-19)
 - 2015 • Biolunch Seminar Series, University of Missouri- St. Louis. October 14.
 - Ph.D. Dissertation Defense, Harvard University, Cambridge, MA. June 12.
 - Student Seminar Series, Dept. of Organismic and Evolutionary Biology, Harvard University, Cambridge, MA. February 3.
 - 2014 • Student Seminar Series, Organismic and Evolutionary Biology, Harvard. Dec. 2.
 - 2013 • G4 Symposium, Organismic and Evolutionary Biology, Harvard, April 26.
 - 2011 • Harvard University Herbaria Seminar Series. February 15.

TEACHING EXPERIENCE

Courses Taught

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- 2020 Phylogenetic Comparative Methods (graduate seminar)
 - 2019, 2020 Plant and Human Affairs, LSU
 - 2018 Co-coordinator and Instructor of Record, *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

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- Graduate Students*—Janet Mansaray (PhD, 2018 –); Laymon Ball (PhD, 2019–); Diego Paredes-Burneo (PhD, 2019–)
 - Postdoctoral Scholars*—Lauren A. Eserman (2017–2018), Laura Frost (2018–)
 - Dissertation Committee Member*—Spenser Biernaki (LSU; 2019–); Heru Handika (LSU; 2019–); Anna Hiller (LSU; 2017–); Mannfred Boehm (UBC; 2017–)
 - Undergraduates*—Matthew Vosich (LSU; 2020–); Daisy Singletary (LSU; 2019–); Valencia Henderson (LSU; 2019); Chasey Mathey (LSU; 2019); Claire Marshall (LSU; 2019); Lauren Frankel (visiting

summer student from Grinnell College; 2018-); Alexandra Clouet (LSU; 2017); Henry Crull (LSU, recipient of Discover research grant; 2017–2019); Inanna L. Carter (Honors thesis, Harvard University, 2013–2014)

Workshops and Symposia Organized

- 2020 “Angiosperms353: A new essential tool for plant systematics,” Symposium organized with Rachel Jabaily. Botany 2020, virtual.
- 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

- 2019 Ally/Active-Bystander Training, Evolution 2019
- 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

- 2020-2023 Diversity Coordinator, American Society of Plant Taxonomists
- 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
- 2019 EvoAlly, Evolution 2019, Providence, RI
- 2013–2015 Founder and Organizer, Harvard Phylogenetics Journal Club
- 2012–2016 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; 2017–2019)

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; Evolution Letters; 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; Systematic Botany; Taxon; Wiley

Grant Peer Review: National Science Foundation Review Panels; Society of Systematic Biologists

Outreach Activities

- 2020 Biological Sciences Adventure program for incoming freshman

- 2020 LSU College of Science Girls Day at the Museum
- 2016–2019 Panelist, “Careers in Botany: Interactive Career Panel & Lunch.” Botany meeting.
- 2019, 2020 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 *Lab Girl* 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); Muséum National d'Histoire Naturelle-Paris (P); 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)

LANGUAGES: English (native); Spanish (Fluent)

PROFESSIONAL SOCIETIES

American Society of Plant Taxonomists	Botanical Society of America
Society for the Study of Evolution	Society of Systematic Biologists
Phi Beta Kappa	Sigma Xi (Associate Member)