

BLANCA LEÓN CURRICULUM VITAE 2024

PERSONAL INFORMATION

E-mail: leon@austin.utexas.edu

Alternative e-mail: acnalb2008@gmail.com

ORCID: 0000-0001-6307-8639

Scopus Author ID: 7005500144

Institutional address:

Current Professional Address (U.S.A.):

Department of Geography and the
Environment
University of Texas at Austin
305 East 23rd Street, RLP 3.306
Austin, TX 78712-0471
512-471-5116

Professional Address (Peru):

Museo de Historia Natural
Av. Arenales 1256
Apartado 14-0434
Lima 14, PERU

RESEARCH INTERESTS

Plant systematics and related fields of biogeography and conservation are my main interests. I have a research interest on Neotropical ferns, and I have contributed to several treatments and floras, and I have used the group for interpreting ecological and biogeographical aspects of Peru's plant diversity, and for the American tropics.

Plant conservation, plant uses, and aspects of plant domestication are also an important part of my current interests. I have been involved in the development of a compilation and evaluation of wild relatives of crops worldwide. A project initially proposed by the US National Plant Germplasm Resources Laboratory in 2008 for examining crops of interest to the US agriculture, it has now expanded to a worldwide view and is searchable

(<https://npgsweb.ars-grin.gov/gringlobal/taxon/taxonomysearchcwr.aspx>).

See also: https://www.researchgate.net/profile/Blanca_Leon5

HIGHER EDUCATION

- 1993 Ph.D. Degree in Science, Faculty of Science, Aarhus University, Denmark. Benjamin Øllgaard, Advisor.
- 1983 Professional Degree in Biology with Mention in Botany, Programa Académico de Biología, Universidad Nacional Mayor de San Marcos, Peru.
- 1982 Bachelor's Degree in the Biological Sciences, Programa Académico de Biología, Universidad Nacional Mayor de San Marcos, Peru. Enma Cerrate, Advisor.

LANGUAGES

Native speaker of Spanish. Fluent in English. Reading and speaking ability in Portuguese.

PROFESSIONAL SOCIETY MEMBERSHIPS

American Fern Society (since 1986), American Society of Plant Taxonomists (since 1986), Botanical

Society of America (since 1989), British Pteridological Society (since 1989), International Association for Plant Taxonomists (since 1990), International Pteridological Society (since 1990), International Biogeography Society (since 2011); International Society for Horticultural Science (since 2011).

FOREIGN WORK AND TRAVEL

Bolivia 2 mo; Cuba 1 wk; Denmark 25 mo.; Ecuador 6 mo.; England 2 mo.; France 2 wks, Germany 1 wk; Guatemala 8 wks; China 10 days, Norway 1 wk; Sweden 1 wk; USA 30 yrs.

RECOGNITIONS

2023–2030 Elected as Council member of the International Association for Plant Taxonomy-IAPT

2017–2027. Associate of the Keller Science Action Center of the Field Museum, Chicago, Illinois.

2009-present. Honorary profesor, Universidad Nacional Mayor de San Marcos, Lima, Peru

2007–Nov 2010. Research Associate at the National Museum of Natural History, Smithsonian Institution.

2006 Honorary Member, Sociedad Peruana de Botánica, Peru.

2000-2023. Research Fellow, Department of Geography and the Environment, University of Texas at Austin.

1994-2000 Member of the IUCN/World Commission on Protected Areas.

1996–1998 Member of the Coordinating Group for the Andean Region of the Organization for Flora Neotropica.

1993–1999 Adjunct Assistant Professor at the Department of Geography & Environmental Systems, University of Maryland Baltimore County, Baltimore.

1993–1994 Collaborator, Department of Botany, National Natural History Museum, Smithsonian Institution, Washington.

1991–1998 Member of the IUCN/Species Survival Commission, Northwestern South American\Plant Specialist Group.

1991–2015. Research associate, Department of Botany, The Field Museum, Chicago.

1988-present Member of the Commission of the Organization for Flora Neotropica.

1988-present Research associate, Museo de Historia Natural, Lima.

1987–1999 Member of the Consejo Superior of the Latin-American Botanical Society.

1975 Valedictorian, High School Graduation. Colegio Particular Dalton, Lima, Peru.

PUBLICATIONS (since 2000)

BOOKS, THESES & MONOGRAPHS

2014 N. Tejedor-Garavito, E. Alvarez... **B. León**, et al. A Regional Red List of Montane Tree Species of the Tropical Andes: Trees at the top of the world. 56 pp. Botanic Gardens Conservation

International, Richmond, UK.

- 2013 J. H. Wiersema & **B. León**. World Economic Plants. A standard reference. 2nd. Revised Edition CRC Press and Francis & Taylor Group. [ISBN 978-1-43-982142-8] <https://npgsweb.ars-grin.gov/gringlobal/taxon/taxonomysearcheco.aspx>
- 2012 **B. León**, E. Huamán, J. Roque, M. I. La Torre & A. Cano. Los Helechos Ornamentales en el Perú. Dirección General de Forestal y Fauna, Ministerio de Agricultura & Museo de Historia Natural, Lima, Peru. 170 pp. [ISBN 978-612-00-1064-8]
- 2007 **B. León**, J. Roque, C. Ulloa Ulloa, P. M. Jørgensen, N. Pitman & A. Cano (Eds.). Libro Rojo de las Plantas endémicas del Perú. Revista peruana de Biología, Edición Especial 13(2): 971 pp. [Dec 2006]

PEER-REVIEWED ARTICLES & BOOK CHAPTERS

- 2025 A. Aliaga Castillo, **B. León**, D. Sanín & C. Martinez. The phylogenetic position of the fossil: *Polystichum espinarensis* sp. nov., reveals its relationship with an exindusiate Andean clade. *International Journal of Plant Sciences* (aceptado)
- 2024 F. Pélaez P., **B. León** & N. Aragón *Ceratopteris thalictroides* (L.) Brongn. (Pteridaceae): confirmation of its presence in the pteridoflora of Peru. *Acta Botanica Brasilica* 38: e20230028
- 2024 J. Delves, J. Albán-Castillo, A. Cano, C. Fernández Aviles, E. Gagnon, P. Gonzáles, S. Knapp, **B. León**, J.L. Marcelo-Peña, C. Reynel, R. P. Rojas Gonzáles, E. Rodríguez Rodríguez, T. Särkinen, R. Vásquez Martínez & P.W. Moonlight Small and in-country herbaria are vital for accurate plant threat assessments: A case study from Peru. *Plants, People, Planet* 6, no. 1 (2024): 174-185. Doi: 10.1002/ppp3.10425
- 2024 S. Rivera, **B. León** & M. Arakaki. Taxonomic updates of *Cheilanthes* Sw.(Pteridaceae) in Peru, with a conservation assessment for four endemics. *Revista peruana de biología* 31, no. 1, epub. Doi: 10.15381/rpb.v31i1.26205
- 2022 **B. León**. M. Acuña-Tarazona & F. Mellado. Pteridofitas: helechos y licófitos de “El Mundo Vegetal de los Andes peruanos” en el contexto actual. *Revista peruana de Biología* 29(3):e22890. DOI: 10.15381/rpb.v29i3.22890
- 2021 D. G. Jaimez, **B. León** & O. G. Martínez. Comparative anatomy of five species of *Campyloneurum* (Polypodiaceae) from South America. *Flora* 282:151881. DOI: 10.1016/j.flora.2021.151881
- 2020 C. K. Khoury, D. Carver, S.L. Greene, K. A. Williams, H. A. Achicanoy, M. Schori, **B. León**, J. H. Wiersema & A. Frances. Crop wild relatives of the United States require urgent conservation action. Accepted 11 Nov 2020 *Proceedings of the National Academy of Sciences* 117:33351–33357.
- 2020 P. H. Labiak, **B. León** & R. C. Moran. *Campyloneurum atosquamatum* (Polypodiaceae), a new species from Amazonia. *Brittonia* 72: 248—256.
- 2019 **B. León**, E. Huamán & A.R. Smith. Confirmation of a continental-scale disjunction for the fern *Campyloneurum decurrens* (Polypodiaceae). *Revista peruana de Biología* 26:131–134. DOI:

<http://dx.doi.org/10.15381/rpb.v26i1.15916>

- 2019 C. K. Houry, D. Amariles, J. S. Soto, M. V. Díaz, S. Sotelo, C. C. Sosa, J. Ramirez-Villegas, H. A. Achicano, J. Velasquez-Tibata, L. Guarino, **B. León**, C. Navarro-Racines, N. P. Castañeda-Alvarez, H. Dempewolf, J. H. Wiersema, A. Jarvis. Comprehensiveness of conservation of useful wild plants: An operational indicator for biodiversity and sustainable development targets. Ecological Indicators 98: 420-429.
- 2018 P. Gonzáles, **B. León**, A. Cano & P.M. Jørgensen. Vascular flora and phytogeography links of the Carabaya Mountains, Peru. Revista peruana de Biología 25(3):191–210.
- 2018 A.R. Smith, M. Kessler, **B. León**, T.E. Almeida, I. Jiménez-Pérez & M. Lehnert. Prodromus of a fern flora for Bolivia. XXXIX. Polypodiaceae. Phytotaxa 354(1): 1–67.
- 2018 **B. León**, H. Beltrán, C. Carrasco-Badajoz, E. Portal-Quicaña & M. Huaycha-Allcca. First records of *Pilularia americana* (Polypodiidae, Salviniaceae, Marsileaceae) from Peru. Check List 14(2): 319–322.
- 2017 C. Ulloa Ulloa, P. Acevedo-Rodríguez, S. Beck, M. J. Belgrano, R. Bernal, P. E. Berry, L. Brako, M. Celis, G. Davidse, R. C. Forzza, S. R. Gradstein, O. Hokche, **B. León**, S. León-Yáñez, R. E. Magill, D. A. Neill, M. Nee, P. H. Raven, H. Stimmel, M. T. Strong, J. L. Villaseñor, J. L. Zarucchi, F. O. Zuloaga, P. M. Jørgensen. An integrated assessment of the vascular plant species of the Americas. Science 358:1614–1617. DOI: 10.1126/science.aao0398
- 2017 V. Jiménez, **B. León**, R. Ramirez & X. Cuevas-Figueroa. Análisis morfológico comparativo de las estructuras reproductivas masculinas de los géneros *Orthopterygium* y *Amphypterygium*. Revista peruana de Biología 24(2): 199–204.
- 2016 E. Schuettelpelz, H. Schneider, A.R. Smith, P. Hovenkamp et al. (project organizers), **B. León** (collaborator). A community-derived classification for extant lycophytes and ferns. Journal of Systematics and Evolution 54: 563–603.
- 2016 D.G. Jaimez, O. G. Martinez & **B. León**. *Campyloneurum*. Flora Argentina vol. 2: 237–242.
- 2016 J.H. Wiersema & **B. León**. The GRIN-Taxonomy crop wild relative inventory. Pp. 453–457. In: N. Maxted, M.E. Dulloo & B.V. Ford-Lloyd. *Enhancing Crop Genepool Use: Capturing Wild Relative and Landrace Diversity*. CAB-International.
- 2013 H. Vincent, J. Wiersema, S. Kell, H. Fiedler, S. Dobbie, N.P. Castañeda-Alvarez, L. Guarino, R. Eastwood, **B. León** & N. Maxted. A prioritized crop wild relative inventory to help underpin global food security. Biological Conservation 167: 265–275.
- 2013 **B. León** & M. Kessler. *Campyloneurum poloense*. Phytotaxa 119:59–60.
(<http://dx.doi.org/10.11646/phytotaxa.119.1.7>)
- 2013 **B. León**, C. Rothfels, M. Arakaki, K.R. Young & K. Pryer. Revealing a cryptic fern distribution through DNA sequencing: *Pityrogramma trifoliata* in the western Andes of Peru. American Fern Journal 103(Submitted Nov 2012. Accepted Feb 2013):40–48.
- 2013 **B. León**. La cola de caballo (*Equisetum*, Equisetaceae) comercializada y exportada del Perú.

Revista peruana de biología 19(3):341–342 [2012]

- 2012 J.H. Wiersema, **B. León** & E.J. Garvey. Identifying wild relatives of subtropical and temperate fruit and nut crops. Acta Horticulturae 948: 282–288.
- 2012 H. Trinidad, A. Cano & **B. León**. *Thalictrum peruvianum* (Ranunculaceae), una especie nueva de Lima, Perú. Revista peruana de biología 18(3):271–264 [2011]
- 2012 N. Tejedor-Garavito, E. Alvarez, A. Araujo Murakami, C. Blundo, T.E. Boza Espinoza, M.A. La Torre Cuadros, J. Gaviria, N. Gutierrez, P.M. Jørgensen, **B. León**, R. López Camacho et al. Evaluación del estado de conservación de los bosques montanos en los Andes tropicales. Ecosistemas 21:148–186. (<http://www.revistaecosistemas.net/articulo.asp?id=722>)
- 2011 **B. León**, K.R. Young, J. Roque & A. Cano. Nuevos registros de plantas de la zona alta del Parque Nacional Río Abiseo, Perú. Arnaldoa 17(1):51–83. [2010]
- 2011 Peter M. Jørgensen, C. Ulloa Ulloa, **B. León**, S. León-Yáñez, S.G. Beck, M. Nee, J. L. Zarucchi, M. Celis, R. Bernal & R. Gradstein. Regional patterns of vascular plant diversity. Pp. 192–203. In: S.K. Herzog et al. (eds.) *Climate Change and Biodiversity in the Tropical Andes*. IAI-SCOPE, São Paulo, Brazil.
- 2011 M. Kessler, J.-A. Grytnes, S.R.P. Halloy, J. Kluge, T. Kromer, **B. León**, M.J. Macía & K.R. Young. Gradients of plant diversity: local patterns and processes. Pp. 204–219. IN: S.K. Herzog et al. (eds.) *Climate Change and Biodiversity in the Tropical Andes*. IAI-SCOPE, São Paulo, Brazil.
- 2010 (online 1727-9933) **B. León** & K.R. Young. A fortuitous ant-fern association in the Amazon lowlands of Peru. Submitted 9 Nov 2009. Accepted April 2010. Revista peruana de Biología 17:245–247.
- 2010 B. Gould, **B. León**, A.M. Buffen & L.G. Thompson. Evidence of a high-Andean, mid-Holocene plant community: an ancient DNA analysis of glacially preserved remains. American Journal of Botany 97:1579–1584.
- 2009 E. Rodríguez R., S. Arroyo, D.A. Neill, R. Vásquez, R. Rojas, **B. León**, J. Campos & M. Mora. Notas sobre el conocimiento de la flora en la Cordillera del Cóndor y áreas adyacentes en el Perú. Arnaldoa 16: 109–121.
- 2009 F. Mellado, J. Albán & **B. León**. Cuatro nuevos registros de especies del género *Elaphoglossum* (Dryopteridaceae) para el Perú. Revista peruana de Biología 15(2): 93–95. [2008]
- 2009 K. R. Young & **B. León**. Natural hazards in Peru: causation and vulnerability. In: E. Latrubusse (ed.) *Natural Hazards and Human-Exacerbated Disasters In Latin-America*. Elsevier
- 2008 **B. León** & A. Sagástegui. General overview of *Tillandsia* subgenus *Tillandsia* in Peru: The three pinnate species and the case of two endemic species. Revista peruana de Biología 15(1): 25–30.
- 2007 L.F. Mellado & **B. León**. Nuevos registros y observaciones de algunas especies de *Elaphoglossum* (Elaphoglossaceae) del Perú. Revista peruana de Biología 14(1): 21–23.
- 2007 K.R. Young, **B. León**, P.M. Jørgensen & C. Ulloa Ulloa. Tropical and Subtropical landscapes of the

- Andes. Pp. 200–216. In T.T. Veblen, K.R. Young & A.R. Orme (Eds.) *The Physical Geography of South America*. Oxford University Press.
- 2007 K. R. Young & **B. León**. Tree-Line Changes along the Andes: Implications of Spatial Patterns and Dynamics. For Biodiversity Hotspots through Time: Using the Past to Manage the Future, Philosophical Transactions of the Royal Society B: Biological Sciences 362(1478): 263–272.
- 2007 E.F. Rodríguez, M. Weigend, **B. León**, E. Alvitez I., J. Pera D. & S. Arroyo A. *Laccopetalum giganteum* (Ranunculaceae) una especie endémica En Peligro del norte del Perú que necesita planes de conservación urgente (*Laccopetalum giganteum* (Ranunculaceae) an Endangered endemic species from northern Peru in urgent need of conservation plans) Arnaldoa 14(1): 123–130.
- 2006 L. Thompson, E. Moseley-Thompson, H. Brecher, M. Davis, **B. León**, D. Les, P. Lin, T. Maschiotta & K. Mountain. Abrupt tropical Climate Change: Past and Present. Proceedings of the National Academy of Sciences 103(28): 10536–10543.
- 2006 E.F. Rodríguez, R. Vásquez M., R. Rojas G. , G. Calatayud H., **B. León** & J. Campos. Nuevas adiciones de Angiospermas a la Flora del Perú. Revista peruana de Biología 13(1): 129–138.
- 2006 H. Navarrete, **B. León**, J. Gonzales, F. Mellado, J. Albán & B. Øllgaard. 2007. Helechos con importancia económica en Ecuador, Perú y Bolivia. Pp. 385–411. In: M. Moraes R., B. Øllgaard, L.P. Kvist, F. Borchsenius & H. Balslev (eds.) *Botánica Económica de los Andes Centrales*. Herbario Nacional de Bolivia, Instituto de Ecología, Universidad Mayor de San Andrés, Editorial Plural Editores. La Paz.
- 2005 **B. León**, H. Beltrán & P. Fine. Sobre el género *Schizaea* (Schizaeaceae) en el Perú (On the genus *Schizaea* in Peru). Revista peruana de Biología 12(1): 97–102.
- 2005 J. Fjeldsaa, M.D. Alvarez, J.M. Lascano & **B. León**. Illicit crops and armed conflict as constraints on biodiversity conservation in the Andes region. Ambio 34(3): 205–211.
- 2005 M.B. Bush, B.C.S. Hansen, D. Rodbell, G.O. Seltzer, K.R. Young, **B. León**, M. Abbott, M.M.R. Silman & W.D. Gosling. A 17000-year history of Andean climatic and vegetation change from Laguna de Chochos, Peru. Journal of Quaternary Science 20: 1–12.
- 2005 T. T. Veblen, J. J. Armesto, B. R. Burns, T. Kitzberger, A. Lara, **B. León** & K. R. Young. The Coniferous forests of South America. In: F. Andersson & S. Gessel (eds.) *Coniferous Forests*. Elsevier Press.
- 2005 A.R. Smith, **B. León**, H. Tuomisto, H. van der Werff, R.C. Moran, M. Lehnert & M. Kessler. New records of pteridophytes for the flora of Peru. Sida 21(4): 2321–2342.
- 2004[2005] **B. León**. A new species of *Campyloneurum* (Polypodiaceae) from northern Peru. Revista peruana de Biología 11(2): 135–137.
- 2004 C. Ulloa Ulloa, J. Zarucchi & **B. León**. Diez años de adiciones a la flora del Perú: 1993–2003. Arnaldoa Número Especial: 7–242
- 2003 B.C.S. Hansen, D.T. Rodbell, G.O. Seltzer, **B. León**, K.R. Young & M. Abbott. Late-glacial and

Holocene vegetational history from two sites in the western Cordillera of southwestern Ecuador. Palaeogeography, Palaeoclimate, Palaeoecology 194: 79–108.

- 2003 **B. León** & A.R. Smith. New species and new combinations of Grammitidaceae from Peru. American Fern Journal 93(2): 81–89.
- 2003 [2004] **B. León**, T. Durt, S.D. Grant, S. Knapp & D. Zappi. Contacto con el pasado: El legado botánico de Richard Spruce. Arnaldoa 10(2): 109–118.
- 2002 [2003] **B. León**, A. Cano & K.R. Young. Los helechos de las lomas costeras del Perú. Arnaldoa 9(2): 7–42.
- 2002 **B. León** & H. Beltrán. A new *Microgramma* subgenus *Solanopteris* (Polypodiaceae) from Peru and a new combination in the subgenus. Novon 12: 481–485.
- 2002 **B. León**. Significance of August Weberbauer's plant collecting for today's Rio Abiseo National Park, northern Peru. Taxon 51: 167–170.
- 2001 K. R. Young & **B. León**. Perú (Los Bosques Montanos de los Andes peruanos). Pp. 549–580. In: M. Kapelle & A. Brown (eds.) *Bosques Nublados del Neotrópico*. Instituto Nacional de Biodiversidad (INBIO). San Domingo de Heredia, Costa Rica.
- 2001 **B. León**. *Mutisia mandoniana* (Asteraceae), un nuevo registro para el Perú. Arnaldoa 8: 37–38.

BOTANICAL PAPERS ON NOMENCLATURE

- 2022 L. Landrum, R. Fortunato, M. Barkworth, I. Breitwieser, B. León et al. Report of the Special-purpose Committee on Virtual Participation in the Nomenclature Section. Taxon 70:1399–1401. DOI:10.1002/tax.12624.
- 2016 **B. León**. (2480) Proposal to conserve *Campyloneurum densifolium* against *Polypodium ccallahualla* ("*P. calaguala*") (Polypodiaceae). Taxon 65(6): 1424–1425.
- 2008 **B. León**, B. Millán, A. Cano & J. Albán. No rules violated, but...,--A response and comments from the Herbario San Marcos (USM) to Rijkcevsorsel's proposal to suppress *Selbyana* vol. 23 Supplement. Taxon 57(2): 664–665.
- 2008 J. L. Luteyn, E.M. Ortiz & **B. León**. Notes on and lectotypification of Augusto Weberbauer's collections of Peruvian Ericaceae. Revista peruana de Biología 15(1): 127–134 .
- 2006 **B. León**, A. Granda, J. Roque G. & G. Vilcapoma. A review of Peruvian *Phoradendron* (Viscaceae) species names published by Paczoski and typified by material collected by Augusto Weberbauer. Taxon 55(2): 513–514.

BOOK REVIEWS

- 2010 **B. León**. Book review of L.D. Gómez & A. Arbelaez. 2009. *Flora de Nicaragua*, Tomo IV: Helechos. Systematic Botany 35(1): 221^a.
- 2006 **B. León**. Book review of B.E. Van Wyk, 2005. *Food Plants of the World*. An illustrated guide. Plant

Science Bulletin 52(4): 141–142.

- 2004 **B. León**. Book review of C. Reynel, T.D. Pennington, R.T. Pennington, C. Flores & A. Daza, 2003. Árboles Útiles de la Amazonía Peruana. Un manual con apuntes de identificación, ecología y propagación de las especies. Revista Peruana de Biología 11(1): 113–114. Versión Online ISSN 1727-9933.
- 2002 **B. León**. Book review of G. L. Webster & R. M. Rhode. Plant diversity of an Andean cloud forest: checklist of the vascular flora of Maquipucuna, Ecuador. Plant Science Bulletin 48: 35.

ONLINE RESOURCES (peer-reviewed)

Contributor for GRIN Taxonomy for Plants – World Economic Plants: A standard reference

<https://npgsweb.ars-grin.gov/gringlobal/taxon/taxonomysearch.aspx>

Contributor for Crop Wild Relatives in GRIN

<https://npgsweb.ars-grin.gov/gringlobal/taxon/taxonomysearchcwr.aspx>

TECHNICAL REPORTS AND MANUALS

- 2016 A. Rial B., E. Terneus, **B. León** & M. F. Tognelli. Capítulo 6. Estado de conservación y distribución de las plantas acuáticas. Pp. 87–104. In: M.F. Tognelli, C. A. Lasso, C.A. Bota-Sierra, L.F. Jimenez-Segura & N.A. Cox (eds.) Estado de Conservación y Distribución de la biodiversidad de agua dulce en los Andes tropicales. Gland, Suiza, Cambridge, UK & Arlington, USA: UICN. xii + 199 pp.
- 2013 **B. León**, K.R. Young & J. Roque. Evaluación del estado poblacional del huacui y de las comunidades vegetales que integra: Bases para una estrategia de conservación de la vertiente occidental peruana. Informe Final del Convenio de Donación No. 70-2009-APECO-CI
- 2000 **B. León** & J. Morales-Can. The Aquatic macrophyte communities of Laguna del Tigre National Park, Petén, Guatemala (Las comunidades acuáticas de macrofitas del Parque Nacional Laguna del Tigre, Petén, Guatemala). In: B. T. Bestelmeyer & L. E. Alonso (eds.) A Biological assessment of Laguna del Tigre National Park, Petén, Guatemala. RAP Bulletin of Biological Assessment 16: 35–40.

ABSTRACTS

- 2023 **B. León**. Robbin C. Moran: Research and impact on ferns and people. In Neotropical Pteridology: A dedication to Robbin Moran, Boise, Idaho. Botany 2023. Annual Meeting of the American Society of Plant taxonomy-Botanical Society of America, American Fern Society, IAPT, Society of Herbarium Curators and American Bryological and Lichenological Society.
- 2020 M. Schori, **B. León** & K. Kitell. Crop Wild Relative data in the Germplasm Resources Information Network. Botany conference July 2020 online. The Botanical Society of America
- 2018 C. Ulloa Ulloa. El mapa de las plantas vasculares de América. Symposium World Flora Online. XII Latin American Botanical Congress, Quito, Ecuador. 21–28 October 2018.
- 2018 **B. León**. Helechos y licófitos del Perú: Un análisis de su conocimiento y estudio a 25 años de *Pteridophyta of Peru*. Symposium S23: Situación actual y perspectivas del conocimiento de los helechos y licófitos en Latinoamérica. XII Latin American Botanical Congress, Quito, Ecuador. 21–28 October 2018.
- 2018 **B. León**. Estado de conocimiento de los helechos y licófitos en el Perú. XVI Peruvian Botanical

- Congress, Ayacucho, Peru. 19–22 June 2018.
- 2015 **B. León** & J.H. Wiersema. Diversidad de plantas en cultivo y sus parientes silvestres: el rol de taxonomía y nombres científicos en su *monitoreo*. XXIV Annual meeting of the Institute of Biological Sciences “Antonio Raimondi”-ICBAR, Universidad Nacional Mayor de San Marcos.
- 2012 **B. León** & K.R. Young. Biogeography of the flora of Peru’s western Andes: Endemicity, origins and conservation. 6th Biennial Meeting International Biogeography society- 9–13 Jan 2013. *Frontiers Biogeography* 4 (Suppl. 1): 155.
- 2011 **B. León** & K.R. Young. Ecosistemas Frágiles en el Peru. XX Annual meeting of the Institute of Biological Sciences “Antonio Raimondi”-ICBAR, Universidad Nacional Mayor de San Marcos.
- 2006 **B. León** & K.R. Young. Vegetation History in the Peruvian Andes. Abstract Book, Reconstructing Past Regional Climate Variations in South America over the late Holocene: a new PAGES initiative. Malargüe, Mendoza, Argentina: 24.
- 2005 **B. León**, C. Ulloa Ulloa, A. Cano, P.M. Jørgensen, N. Pitman & K.R. Young. Challenges in evaluating plant endemism in a tropical country. Annual Meeting Abstracts, Association of American Geographers, Denver, Colorado.
- 2004 **B. León**. Estado de Conocimiento de las Pteridofitas en el Perú. Abstract. X Peruvian Botanical Congreso, Trujillo, Peru.

EXPERIENCE IN HIGHER EDUCATION

2008-present . As Honorary Professor teaches: Plant Systematics: Pteridophytes; Plant Nomenclature, and Biology of Invasive Organisms. All courses for the Graduate program in Tropical Botany at the Faculty of Biological Sciences, Universidad Nacional Mayor de San Marcos, Lima, Peru.

2005, 2006. Taught Botanical Nomenclature for biologists, at Herbarium San Marcos, Lima, Peru.

2006 As Lecturer in the Geography and the Environment Department, College of Liberal Arts, University of Texas at Austin, taught Biogeography (GRG366K) for Geography majors.

2002–2003 As Lecturer in the School of Biological Sciences, University of Texas at Austin taught Bio213 Introduction to Ecology and Evolution for Biology Majors (Fall 2002), and Bio301M, Ecology, Evolution and Society for non-Biology majors (Spring 2003).

1995–1999 As Adjunct Assistant Professor taught senior seminar twice entitled "Plant Resources of the World", Department of Geography & Environmental Systems, University of Maryland, Baltimore County.

1994 Invited professor (with R.C. Moran) in a course entitled "Pteridologia", Herbario Nacional de Bolivia, La Paz.

1993-present. Invited professor in the Master’s Program, Universidad Nacional Mayor de San Marcos, Lima. Two seminar courses: Systematics of Cryptogams (Pteridophyte chapter), and Pteridology.

1980–1984, 1986 Teaching Assistant in General Botany, Cryptogamic Botany 1986, Flowering Plant Systematics, Principles of Biology and Ecology, and General Biogeography at the Universidad Nacional Mayor de San Marcos, Lima.

STUDENT ADVICING ACTIVITIES

Undergraduate students: Undergraduate students: L. Franco Mellado (committee member, UNMSM), Soledad Rivera Guillen (undergraduate advisor-UNMSM 2022)

Graduate students: Asunción A. Cano E. (Doctoral student-UNMSM, advisor, 2021), Amalia Diaz (PhD-University of Texas at Austin 2016, committee member), Deise Josely Pereira Gonçalves (PhD candidate-University of Texas at Austin, Summer 2018, committee member), Elluz Huaman (MSc student, UNMSM, Peru, co-advisor 2016 to present). Helena Nervo (Doctoral Degree, Universidade Federal do Rio Grande do Sul, Brazil. Qualifying exam, as external committee member June 2015)

REVIEWER FOR ACADEMIC JOURNALS

Active participant as reviewer, on average 10/year

As Member of: **PhytoKeys** (Section Editor), **Revista peruana de Biología** (Associate editor), **Biodiversity and Conservation** (associate editor)

Invited by: Acta Botánica Malacitana; American Fern Journal, Anales del Real Jardin Botánico de Madrid, Botanical Journal of Linnean Society, Botanical Sciences (Mexico), Brittonia, Bulletin of the Natural History Museum, Caldasia, Candollea, Ecología Aplicada, Fern Gazette, Fieldiana Zoology, Flora Neotropica, Forest and Management, Geographical Review, Global Ecology and Biogeography, Journal of the Botanical Research Institute of Texas, Lankesteria, Lundellia, Nordic Journal of Botany, Novon, Oryx, Physis (Argentina), Phytotaxa, Selbyana, Sida, Systematic Botany.

OTHER PROFESSIONAL EXPERIENCE (current only)

2018-2020 Member of Special Committee for Virtual Nomenclature Section (L. Landrum Chair)

2016-present Subject editor of PhytoKeys (<http://phytokeys.pensoft.net/about>)

2011-present Associate editor of *Revista peruana de biología*, Universidad Nacional Mayor de San Marcos, Lima, Peru.
(<http://revistasinvestigacion.unmsm.edu.pe/index.php/rpb/about/editorialTeam>)

2003 Collaborator of NatureServe project, C. Josse et al. Ecological Systems of Latin America and the Caribbean. A working classification of terrestrial systems.

2001-present. Research affiliate, Billie L. Turner Plant Resources Center, University of Texas at Austin.

2000-present. Research Fellow, Department of Geography and the Environment, University of Texas at Austin.

AWARDS AND GRANTS

2009–2010 1-yr grant to **B. León** & K.R. Young. “Evaluación del estado poblacional del huacui y de las comunidades vegetales que integra: Bases para una estrategia de conservación en la vertiente occidental peruana”. Grants Maria Koepcke, Grant Award 70. Conservation International Peru-APECO.

2007 Award for scientific achievement in Peru. Presented by the Peruvian National Council of the Environment (CONAM)

2005–2006 1-yr grant to A. Sagástegui, **B. León**, I. Sánchez V., E. Rodriguez & M. Zapata. “Evaluación de especies amenazadas de la jalca peruana, con énfasis en *Laccopetalum giganteum*”. Grants Maria Koepcke, Conservation International Peru-APECO.

1999–2000 2-yr grant to K. R. Young, A. Cano & **B. León**, for “Plant diversity and endemism in Peru’s

central highlands". National Geographical Society Research and Exploration grant.

INVITED PRESENTATIONS (last 10 years)

2021 Invited speaker. *Plantas, flora, especies del Perú. Reflexiones sobre especies cultivadas y domésticas*. Virtual conference "Fortalecimiento de las capacidades informativas en el acceso a los recursos genéticos". Proyecto GEF-ABS Nagoya. Thursday 4 February 2021 Zoom online.

2018 Key note speaker. Identificación de los parientes silvestres de cultivos – una tarea de síntesis biológica. XVI Peruvian Botanical Congress, Ayacucho, Peru. 19–22 June 2018.

2017 99th Anniversary of the Museo de Historia Natural, UNMSM, Lima. *"En USM la historia continúa. Pero, ¿a dónde vamos?"* (28 February 2017)

2015 Symposium Biological Monitoring. XXIV Annual meeting of the Institute of Biological Sciences Antonio Raimondi. Universidad Nacional Mayor de San Marcos, Lima, Peru. August 2015. *"Monitoreo de Diversidad de plantas en cultivo: el rol de taxonomía y nombres en GRIN"* (a joint presentation with J.H. Wiersema, ARS-USDA)

2014 Key note speaker. 96th Anniversary of the Museo de Historia Natural, UNMSM, Lima. *"¿Cómo sería el Perú sin el Museo de Historia Natural? Reflexiones sobre tiempo, espacio, y retos en hacer ciencia en el Perú"* (28 February 2014)

OUTREACH

2015 Anniversary of the Museo de Historia Natural, 24 February *"Helechos bien hechos"*, Lima, Peru

2013–2019 Secretary of Membership of the American Fern Society

2009 Women in Science, Austin Museum Day, 20 September. Wildflower Center, Austin, Texas