

Susy Echeverría-Londoño, PhD

Investigadora Postdoctoral Asociada
Macroecología y Macroevolución

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EXPERIENCIA PROFESIONAL

2018–2019 **Investigadora visitante**, *University of Pittsburgh, Biological Sciences, USA.*

PI: Prof. Justin Kitzes.

2017–present **Investigadora Postdoctoral Asociada**, *Kenyon College, Biology, Gambier, USA.*

PIs: Prof. Andrew Kerkhoff (Kenyon College) and Prof. Brian J. Enquist (University of Arizona)

Proyecto: Evolución de nichos, límites ecológicos y la macroecología de plantas en el Neotrópico y el Neártico. Financiado por la fundación nacional de ciencias de Estados Unidos (NSF)

2013–2017 **Doctorado en Ciencias de la Vida**, *Imperial College London, Natural History Museum, London, UK.*

Proyecto: Patrones de diversificación del género *Solanum* L. (Solanaceae), macroecología de plantas y efectos a los cambios del uso de habitat.

Supervisor: Prof. Andy Purvis. Co-supervisor Dr Sandra Knapp.

2012–2013 **Master de Investigación en Biodiversidad, Informática y Genómica** (Estudiante distinguida), *Imperial College London, Silwood Park, UK.*

Proyecto: Modelamiento y proyección de respuestas de la biodiversidad Colombiana a cambios del uso de habitat

Supervisor: Prof. Andy Purvis.

2004–2010 **Pregrado en Biología**, *Universidad Industrial de Santander, Bucaramanga, Colombia.*

PUBLICACIONES

2018 **Echeverría-Londoño, S.**, Enquist, B. J., Neves, D. M., Violle, C. and Kerkhoff, A. J. Plant functional diversity and the biogeography of biomes in North and South America, *Frontiers in Ecology and Evolution*, 6(DEC), 219.

2018 **Echeverría-Londoño, S.**, Särkinen, T., Fenton, I. S., Knapp, S. and Purvis, A. Dynamism and context dependency in the diversification of the megadiverse plant genus *Solanum* L. (Solanaceae), *bioRxiv ref.: 348961*.

2017 Isaacs, P., **Echeverría-Londoño, S.**, Urbina, N. and Purvis, A. Species composition and changes in land use: considerations under climatic change scenarios. Moreno, L. A., Andrade, G. I. and Ruíz-Contreras, L. F. (Editors). In *Biodiversity 2016. Status and Trends of Colombian Continental Biodiversity*, Instituto de Investigación de Recursos Biológicos Alexander von Humboldt, 106 p.

2017 Hudson, L. N., Newbold, T., Contu, S., Hill, S. L., Lysenko, I., De Palma, A., Diaz, S., **Echeverría-Londoño, S.**, ...and Purvis, A. The database of the PREDICTS (Projecting Responses of Ecological Diversity in Changing Terrestrial Systems) project, *Ecology and Evolution*, 7(1), 145–188.

- 2016 **Echeverría-Londoño, S.**, Newbold, T., Hudson, L. N., Hill, S. L., Contu, S., Lysenko, I., ... and Purvis, A. Modelling and projecting the response of Colombian biodiversity to land-use change, *Diversity and Distributions*, 22, 1099–1111.
- 2015 Newbold, T., Hudson, L. N., Hill, S. L., Contu, S., Lysenko, I., Senior, R. A., Bennet D. J., Choimes A., Collen, B., Day, J., De Palma, A., Diaz, S., **Echeverría-Londoño, S.**, ... and Purvis, A. Global effects of land use on local terrestrial biodiversity, *Nature*, 520(7545), 45–50.
- 2014 Newbold, T., Hudson, L. N., Contu, S., Hill, S. L., Lysenko, I., De Palma, A., Phillips, H., Senior, R. A., Bennet D. J., Booth, H., Choimes, A., Correia, D. L. P., Day, J., **Echeverría-Londoño, S.**, ... and Purvis, A. The PREDICTS database: a global database of how local terrestrial biodiversity responds to human impacts, *Ecology and Evolution*, 4(24), 4701–4735.
- 2011 **Echeverría-Londoño, S.** and Miranda-Esquivel, D. R. MartiTracks: A geometrical approach for identifying geographical patterns of distribution, *PLoS ONE*, 6(4), e18460.
- 2010 Miranda-Esquivel, D. R., Morales-Guerrero, A. M. and **Echeverría-Londoño, S.** ¿Cuántos somos? y ¿Cómo nos cuantificamos? In *Evolución “Historia de la Vida”. Asociación Colombiana para el avance de la Ciencia ACAC*.

EVENTOS CIENTÍFICOS

- 2018 **Ponencia**. Echeverría-Londoño, S., et al. Explosive diversification of *Solanum* L (Solanaceae) in the old world, *Three Rivers Evolution meeting*, Pittsburgh, USA.
- 2018 **Poster**. Echeverría-Londoño, S., et al. Plant functional diversity and the biogeography of biomes in North and South America, *Three Rivers Evolution meeting*, Pittsburgh, USA.
- 2018 **Poster**. Echeverría-Londoño, S., et al. Plant functional diversity and the biogeography of biomes in North and South America, *Botany 2018*, Rochester (MN), USA
- 2016 **Ponencia VVIP**. Echeverría-Londoño, S., et al. Modelling and projecting the response of Colombian biodiversity to land-use change, *State visit by the President of Colombia, Juan Manuel Santos, to the UK and the Prince of Wales*, Natural History Museum, London, UK
- 2016 **Ponencia**. Echeverría-Londoño, S., et al. Modelling and projecting the response of Colombian biodiversity to land-use change, *First symposium of Colombian research in the UK*, Imperial College London, UK.
- 2016 **Ponencia**. Echeverría-Londoño, S., Knapp, S. and Purvis, A. Explosive diversification of *Solanum* L (Solanaceae) in the old world, *BES macroecology meeting 2016*, University of Oxford, UK.
- 2016 **Ponencia**. Echeverría-Londoño, S., Knapp, S. and Purvis, A. Diversification patterns of genus *Solanum*, *NHM students conference*, Natural History Museum, London, UK.
- 2015 **Poster**. Echeverría-Londoño, S., Knapp, S. and Purvis, A. Explosive diversification of *Solanum* L (Solanaceae) in the old world, *Systematics: The Science that Underpins Biology. The Systematic Association Biennial meeting*, University of Oxford, UK.
- 2015 **Ponencia**. Echeverría-Londoño, S., Knapp, S. and Purvis, A. Explosive diversification of *Solanum* L (Solanaceae) in the old world, *EU Macroecology meeting*, Zoological museum of Copenhagen, Denmark.
- 2015 **Poster**. Echeverría-Londoño, S., Knapp, S. and Purvis, A. Diversification patterns of *Solanum*, *NHM students conference 2015*, Natural History Museum, London, UK.

- 2014 **Poster.** Echeverría-Londoño, S., Knapp, S. and Purvis, A. Diversification patterns of *Solanum*, *The London Evolutionary Research Network (LERN)*, Queen Mary University, London, UK.
- 2014 **Poster.** Echeverría-Londoño, S., Knapp, S. and Purvis, A. Patterns of lineage diversification in the genus *Solanum* L., *Plants Radiation meeting*, Institute of Systematic Botany, University of Zürich, Switzerland.
- 2013 **Ponencia.** Echeverría-Londoño, S., et al. Modelling and projecting the responses of Colombian biodiversity to human impacts, *11th INTECOL conference*, London, UK.
- 2010 **Ponencia.** Echeverría-Londoño, S. and Miranda-Esquivel, D. M. Panbiogeografía cuantitativa: un acercamiento geométrico, *III Congreso Colombiano de Zoología*, Medellín, Colombia.

SEMINARIOS

- 2018 Ecology and Evolution seminars, *University of Pittsburgh, Biological Sciences*, USA.
- 2017 Monthly seminars, *Department of Biology, Kenyon College*, Gambier, USA.
- 2017 Ecosystems and Tropical Forest group lab seminar, *School of Geography and the Environment, University of Oxford*, UK.
- 2015 Ecology and Evolution seminar, *Royal Botanic Garden*, Edinburgh, UK.

RECONOCIMIENTOS

- 2018 NSF grant fund, \$72,361, “RCN-UBE Incubator: The Biological and Environmental Data Education Network”, *NSF*.
- 2016 Selected to present research to the (Nobel Peace Prize winning) President of Colombia and His Royal Highness the Prince of Wales, *Natural History Museum*, London, UK.
- 2013 Training and travel grant, £300, *British Ecology Society*.
- 2013 Bursary, £1,000, MRes in Biodiversity Informatics and Genomics, *Imperial College London*, Silwood Park, UK.
- 2012–2016 Postgraduate scholarship, £122,000, *Administrative Department of Science, Technology and Innovation of Colombia (Colciencias)*.
- 2004–2009 Academic stimuli, biology program (highest GPA in I, II, IV, IX semesters), *Universidad Industrial de Santander*, Bucaramanga, Colombia.

OTRAS RESPONSABILIDADES

- 2014 Outreach, *Science Uncovered at the Natural History Museum*. Presented the PREDICTS project found at www.predicts.org.uk and the Solanaceae source project found at www.solanaceaesource.org.
- 2015–2016 Secretary, *Latin American Society, Imperial College London*, UK. Responsible for running the fresher-fair, writing minutes and organizing dance sessions.

HABILIDADES EN COMPUTACIÓN

- Programación R (avanzado)
- Python (intermedio)
- C++, shell, HPC cluster scripts (básico)

Ciencia de datos	limpieza, procesamiento, visualización, análisis estadísticos (avanzado)
	GIS en R y ArcGIS (intermedio)
Control de versión	Git
OS	Linux/Unix, OS X, Windows
Tipografía	L ^A T _E X, OpenOffice/LibreOffice

LENGUAJES

Español	Nativa
Ingles	Nivel Profesional
Italiano	Nivel Básico

REFERENCIAS

Prof. Andrew J. Kerkhoff

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