

Susy Echeverría-L

NSF Postdoctoral associate

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susyelo

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Education

PhD in Life Science

Imperial College London
The Natural History Museum
2013 - 2017 | London, UK.

MRes Biodiversity Informatics and Genomics (Distinction)

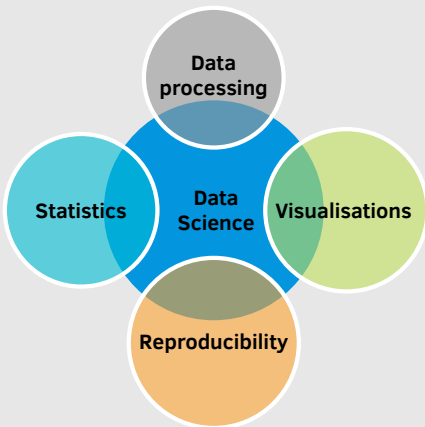
Imperial College London
2012 - 2013 | Silwood Park, Ascot, UK.

BSc in Biology (1st class honours)

Universidad Industrial de Santander
2004 - 2010 | Bucaramanga, Colombia.

Technical Skills

Overview



Programming

R

GIS • Advanced statistics

git • \LaTeX

Python • HPC cluster scripts • Shell

Experience

2018 - Present

Visitor scholar

University of Pittsburgh

- PI: Dr. Justin Kitzes
- Exploring time-series spatial point patterns of ca. 300 plants species to understand and predict extinction risk.

2017 - Present

NSF Postdoctoral Associate

Kenyon College

- PIs: Prof. Andrew Kerkhoff and Prof. Brian J Enquist
- Researching the consequences of climatic stability and biome age and area effects on seed plant diversity using a great collection of geographic distribution of plants in the New World.
- Carrying out paleoclimate reconstructions using machine learning methods such as random forest to calibrate biogeographic biomes inferences.
- Taught and organized lectures and assignments for the Ecoinformatics course including Introduction to data science R, data managing and processing, data visualization, spatial analysis and reproducibility <https://globalecologybiogeography.github.io/Ecoinformatics/>

2017

Lecturer and demonstrator

The Natural History Museum, London, UK

- Phylogenetic approaches to studying diversification lecture for the Methods in Macroecology and Macroevolution course of the MSc Taxonomy and biodiversity program
- Demonstrator of the practical about Fossils in phylogenetics for the Methods in Macroecology and Macroevolution course of the MSc Taxonomy and biodiversity program

2013
2017

Demonstrator

Imperial College London

- Demonstrator of the Computational Biostatistics BSc course
- Demonstrator of the Ecology and Evolution BSc course
- Demonstrator of the Biodiversity and Conservation Biology BSc course
- Practicals included Introduction to R, Fundamentals of statistics in R, Phylogeny of mammals and pines, IUCN Red List, Biodiversity among lineages and over time, Delimiting species, Extinction risk patterns and correlates

Selected publications

2018 **Echeverría-Londoño S**, Enquist, BJ, Neves, DM, Violle, C and Kerkhoff, AJ. 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., & Purvis, A. Dynamism and context dependency in the diversification of the megadiverse plant genus *Solanum* L. (Solanaceae). *bioRxiv*, 348961.

2016 **Echeverría-Londoño S**, Newbold, T., Hudson, L. N., Hill, S. L., Contu, S., Lysenko, I., ... & 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**, ... & Purvis, A. Global effects of land use on local terrestrial biodiversity. *Nature*, 520(7545), 45-50.

2011 **Echeverría-Londoño, S** & Miranda-Esquivel, D. R. MartiTracks: A geometrical approach for identifying geographical patterns of distribution. *PLoS ONE* 6(4): e18460.