



Susy Echeverría-Londoño

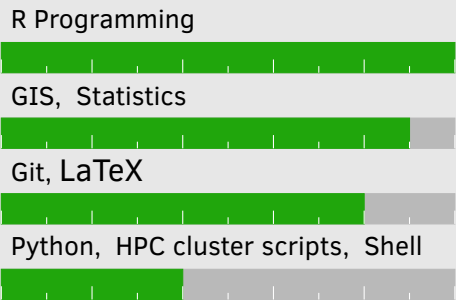
Data Researcher in Biodiversity and Public Health

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About me

I am a data scientist specialising in Biodiversity and Public Health, with over a decade of experience conducting and publishing research work. My expertise lies in analysing large, complex datasets and leveraging advanced statistical approaches to uncover global patterns in public health coverage and the intricate relationships between biodiversity, environment, and human impact.

Skills



(Skill scale from 0 (Fundamental) to 6 (Expert))

Experience

- 2022– now Research Consultant Freelance  
Evaluated and compared the impact estimates of dengue, tuberculosis, group B streptococcus and shigella vaccines from the GAVI’s Vaccine Investment Strategy 2024 with those of the vaccines from the Vaccine Impact Modelling Consortium.
- 2019–2022 Research Consultant and Research Associate Imperial College London, UK  
Analysed, organised, and prepared vaccine impact estimates for 12 pathogens (Cholera, HepB, Hib, HPV, Japanese encephalitis, Measles, MenA, PCV, Rotavirus, Rubella, Typhoid, Yellow fever) across 112 countries spanning from 2000 to 2030, incorporating multiple estimates from diverse modelling groups for each pathogen. PI: Prof. Neil M. Ferguson and Line manager: Dr Katy Gaythorpe
- 2018–2019 Visitor scholar University of Pittsburgh, PA, USA  
Assessed and predicted extinction risks for 300 plant species through comprehensive exploration and analysis of their spatial time-series data using spatial point pattern analysis. PI: Dr. Justin Kitzes
- 2017–2019 NSF Postdoctoral Associate Kenyon College, OH, USA  
Extensively analysed functional diversity distributions among plant species across the biomes of North and South America. Used distribution data from approximately 85,000 plant species, comprising around 9 million geographic points, in conjunction with publicly available functional traits. PI: Prof. Andrew Kerkhoff and Prof. Brian J. Enquist
- 2013–2017 Lecturer and demonstrator Natural History Museum Imperial College London, UK  
Lectured and demonstrated for several quantitative courses in the Taxonomy and Biodiversity MSc and Life Sciences BSc programmes

Education

- 2013–2017 Ph.D. in Life Science Imperial College London, UK  
Plant Macroevolution and biodiversity responses to land-use change
- 2012–2013 M.Res. with Distinction in Biodiversity, Informatics and Genomics Imperial College London, UK  
Effects of land use on local biodiversity in Colombia
- 2004–2010 B.Sc. in Biology Universidad Industrial de Santander, Colombia  
1st-class honours

Selected publications

2022 Echeverría-Londoño, S., Hartner, A. M., Li, X., Roth, J., Portnoy, A., Sbarra, A. N., ... & Gaythorpe, K. A. Exploring the subnational inequality and heterogeneity of the impact of routine measles immunisation in Africa. *Vaccine*, 40(47), 6806-6817.

2021 Echeverría-Londoño, S., Li, X., Toor, J., de-Villiers, M., Nayagam, S., Hallett, T.B., Abbas, K., Jit, M., Klepac, P., Jean, K. & Garske, T. How can the public health impact of vaccination be estimated? *BMC Public Health*, 21, 2049 (2021).

2020. 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), *Journal of Systematics and Evolution*, 58(6), 767-782.

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.

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.