



Susy Echeverría-Londono

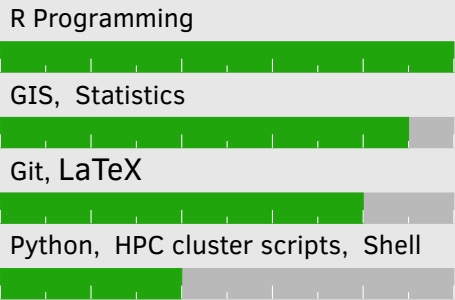
Data Researcher in Biodiversity and Public Health

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About me

I am a data scientist specialising in Bio-diversity and Public Health, with over a decade of experience conducting and publishing innovative research. My expertise lies in analysing large, complex datasets and leveraging advanced data-science approaches to uncover global patterns in public health coverage and the intricate relationships between biodiversity, environmental factors, and human impact. I have a strong background in data analysis, GIS, and statistical modelling, with extensive proficiency in R programming, enabling me to deliver impactful insights that inform decision-making in public health and life sciences.

Skills



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

Experience

2022-present	Research Consultant	Freelance
Evaluated and compared the impact estimates of Dengue, TB, GBS and Shigella vaccines from the GAVI's Vaccine Investment Strategy 2024 with those of the vaccines from the Vaccine Impact Modelling Consortium (VIMC).		
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. <i>PI: Prof. Neil M. Ferguson and Line manager: Dr Katy Gaythorpe</i>		
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. <i>PI: Dr. Justin Kitzes</i>		
2017-2019	NSF Postdoctoral Associate	Kenyon College, OH, USA
Conducted an extensive analysis of 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. <i>PI: Prof. Andrew Kerkhoff and Prof. Brian J. Enquist</i>		
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. Life Science	Imperial College London, UK
Plant Macroevolution and biodiversity responses to land-use change		
2012-2013	M.Res. with Distinction	Imperial College London, UK
Biodiversity, Informatics and Genomics		
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.