

CURRÍCULUM VITAE

November 2025

PERSONAL DATA

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RESEARCH INTERESTS

Abracadabra: let the data speak! I love the Bayesian approach and working with real data and problems. I analyze data on topics such as epidemiology, ecology, stylometry, electoral data, statistical process control, and marketing.

PUBLICATIONS

1. Puig-de-Dou I, Plandolit B, Puig X (2025). Beyond conventional statistical process control: Bayesian hierarchical modelling to track distributed industrial equipment performance. *Quality Technology & Quantitative Management*. <https://doi.org/10.1080/16843703.2025.2588392>
2. González-Ibáñez D, Puig X (2025). Assessing the Impact on Sales of Competing Nearby Supermarkets. *Applied Stochastic Models in Business and Industry*. <https://doi.org/10.1002/asmb.70048>
3. Puig X, Ginebra J (2025). Disease mapping with individual level information; a case study of acute myocardial infarction mortality. *Spatial and Spatio-temporal Epidemiology*. <https://doi.org/10.1016/j.sste.2025.100721>.
4. Jordi O, Puig X, Farina A, Mañosa S (2025). Vocal individuality of Western Capercaillie Tetrao urogallus male calls, an ambisonic bio-acoustic approach. *Bird Study*, 72: 193-203. <https://doi.org/10.1080/00063657.2024.2442777>.
5. Puig X, Ginebra J (2023). Mapping Life Expectancy Loss in Barcelona in 2020. *The American Statistician*, 77:417-424. DOI: [10.1080/00031305.2023.2197022](https://doi.org/10.1080/00031305.2023.2197022).

6. Barrera J, Puig X, Ginebra J, Basagaña X. (2023). Conditional Poisson regression with random effects for the analysis of multi-site time series studies. *Epidemiology*, 34: 873-878. DOI: [10.1097/EDE.0000000000001664](https://doi.org/10.1097/EDE.0000000000001664).
7. Plandolit B, Puig-de-Dou I, Costigan G, Puig X, Rodero L, Martínez JM (2023). A mixture model application in monitoring error message rates for a distributed industrial fleet. *Quality Engineering*, 35: 519-53. DOI: [10.1080/08982112.2022.2132866](https://doi.org/10.1080/08982112.2022.2132866).
8. Vives-Mestres M, Casanova A, Puig X, Ginebra J, Rosen N (2022). Alcohol as a trigger of migraine attacks in people with migraine. Results from a large prospective cohort study in English-speaking countries. *Headache*, 62: 1329-1338. DOI: 10.1111/head.14428.
9. Puig-de-Dou I, González-Ibáñez D, Puig X (2022). Ranking customers for marketing actions with a two-stage Bayesian cluster and Pareto/NBD models. *Appl Stochastic Models Bus Ind.* 38: 609-6019.
<https://onlinelibrary.wiley.com/doi/epdf/10.1002/asmb.2677>
10. Puig X, Ginebra, J (2022). Bayesian spatiotemporal model for life expectancy mapping; Changes in Barcelona from 2007 to 2018. *Geographical Analysis*, 54: 839-859.
<https://doi.org/10.1111/gean.12299>
11. Revollo B, Blanco I, Soler P, Toro J, Izquierdo-Useros N, Puig J, Puig X, Navarro-Pérez V, Casañ C, Ruiz L, Perez-Zsolt D, Videla S, Clotet B, Llibre JM (2021). Same-day SARS-CoV-2 antigen test screening in an indoor mass-gathering live music event: a randomised controlled trial. *Lancet Infectious Diseases*, 21:1365-1372.
[https://doi.org/10.1016/S1473-3099\(21\)00268-1](https://doi.org/10.1016/S1473-3099(21)00268-1)
12. Grima P, Puig X, Tort-Martorell X (2021). Reducing variability of a critical dimension. *Quality Engineering*, 33(2):361-366.
(<https://www.tandfonline.com/doi/full/10.1080/08982112.2021.1878535>).
13. Puig X, Ginebra J (2020). Mapping vote transition at the 2012 outset of the Catalan push for independence. *Scottish Geographical Journal*. vol 136(1-4): 123-139.
(<https://doi.org/10.1080/14702541.2020.1792537> - <http://hdl.handle.net/2117/347383>).
14. Puig X, Ginebra J, Graffelman J (2019). Bayesian model selection for the study of Hardy-Weinberg proportions and homogeneity of gender allele frequencies. *Heredity*, 123: 549-564. (<https://doi.org/10.1038/s41437-019-0232-0>).
15. Puig X, Ginebra J (2018). Outlier detection for multivariate categorical data. *Quality and reliability engineering international*, vol. 34(7):1400-1412.
<https://doi.org/10.1002/qre.2339>
16. Puig X, Ginebra J, Graffelman J (2017). A Bayesian test for Hardy-Weinberg equilibrium of biallelic X-chromosomal markers. *Heredity*, 119: 226-236.
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18. Font M, Puig X, and Ginebra, J (2016). Bayesian Analysis of the Heterogeneity of Literary Style. *Revista colombiana de estadística*, 39:205-227.
19. Puig X, Font M and Ginebra, J (2015). Classification of literary style that takes order into consideration. *Journal of quantitative linguistics*. 22: 177-201.
20. Puig X, and Ginebra J (2015). Ecological Inference and Spatial Variation of Individual Behavior: National Divide and Elections in Catalonia. *Geographical analysis*, 47: 262-283. <http://dx.doi.org/10.1111/gean.12056>
21. Puig X, and Ginebra J (2014). A Cluster analysis of vote transitions. *Computational Statistics and Data Analysis*, 70: 328-344; <http://dx.doi.org/10.1016/j.csda.2013.10.006>
22. Puig X, and Ginebra J (2014). A Bayesian cluster analysis of election results. *Journal of Applied Statistics*, 41: 73-94; <http://dx.doi.org/10.1080/02664763.2013.830088>
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24. Font M, Puig X, Ginebra J (2013). A Bayesian analysis of frequency count data. *Journal of Statistical Computation and Simulation*, 83(2): 229-246 (<http://dx.doi.org/10.1080/00949655.2011.600311>).
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28. Ginebra J, Puig X. (2010). On the measure and the estimation of the evenness and diversity of vocabulary. *Computational Statistics & Data Analysis*, 54(9): 2187-2201.
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