

DANIEL GARCÍA RASINES

EDUCATION

Imperial College London PhD in Statistics Thesis: “On the conditional approach to selective inference” Supervisor: G. Alastair Young	2017 - 2021
Imperial College London MSc in Statistics Grade: Distinction (80/100) Thesis: “Analytic approximations in high-dimensional Bayesian inference”	2016 - 2017
University of Santiago de Compostela BSc in Mathematics Grade: 9.51/10 Year 3 at the University of Southampton	2012 - 2016

PROFESSIONAL EXPERIENCE

Imperial College London Chapman Fellow in Mathematics	2022 - 2024 London, UK
Spanish National Research Council Postdoctoral researcher	2022 Madrid, Spain
Spanish National Research Council Predoctoral researcher	2021 Madrid, Spain

PUBLICATIONS

- D. García Rasines**, G. A. Young (2023). “Local asymptotics of selection models”. [preprint]
- D. García Rasines**, R. Naveiro Flores, D. Ríos Insua, S. Rodríguez Santana. “Personalized pricing through adversarial risk analysis” (2023). Submitted for publication (preprint available upon request).
- D. García Rasines**, G. A. Young. “Splitting strategies for post-selection inference”, *Biometrika*, 110(3), 597–614 (2023). [DOI]
- D. García Rasines**, G. A. Young. “Bayesian selective inference”. Chapter 2 in “Advancements in Bayesian methods and implementation”. *Handbook of Statistics*, 47, 43–65 (2022). Elsevier. [DOI] [preprint]
- D. García Rasines**, G. A. Young. “Empirical Bayes and selective inference”, *J. Indian Inst. Sci.*, 102, 1205–1217 (2022). [DOI]
- D. Ríos Insua, A. Couce Vieira, J. A. Rubio, W. Pieters, K. Labunets, **D. García Rasines**. “An adversarial risk analysis framework for cybersecurity”, *Risk Anal.*, 41(1), 16–36 (2021). [DOI]
- D. Ríos Insua, F. Ruggeri and R. Soyer, **D. García Rasines**. “Adversarial issues in reliability”, *Eur. J. Oper. Res.*, 266(3), 1113–1119 (2018). [DOI]

RESEARCH PROJECTS

“Real-time monitoring of mutations in the SARS-CoV-2 S protein” (19/01/2022 - 18/09/2022). Funder: European Union. PI: José María Martell Berrocal. Total support: 1,736,334 euros.

“Predictive analytics based on big data for the digital transformation of distributed large-scale inventory management” (01/05/2021 - 27/10/2021). Funder: Community of Madrid. PI: David Ríos Insua.

TEACHING

Probability and Statistics for JMC Autumn 2022, 2023
Imperial College London
Undergraduate

Selective Inference Spring 2023, 2024
London Taught Course Centre
Doctoral

Selective Inference Summer 2023
Modern Statistics and Statistical Machine Learning CDT
Doctoral

Teaching Assistant
Imperial College London

- Contemporary Statistical Theory (Postgraduate, Spring 2021)
- Fundamentals of Statistical Inference (Postgraduate, Autumn 2020)
- Statistical Modelling (Undergraduate, Spring 2020)
- Introduction to Numerical Analysis (Undergraduate, Spring 2018, 2019)
- Probability and Statistics 2 (Undergraduate, Autumn 2018, 2019)
- Probability and Statistics 1 (Undergraduate, Autumn 2017, 2019)

STUDENT SUPERVISION

Postgraduate (MSc)

J. B. Barthélemy (Imperial College): “Conformal prediction with high-dimensional data”. 2023

H. Zhang (Imperial College): “A comparison of selective inference methods for regression”. 2023

Undergraduate

H. Comon (EPFL): “Adversarial risk analysis for financial applications”. Expected 2024

Y. Zhou (Imperial College): “Empirical validation of selective inference methods”. Expected 2024

C. Li, P. Yu, S. Pandit, S. Fang, R. Fang (Imperial College): “Robust variable selection”. 2023

R. Concha Duque (Complutense): “Adversarial risk analysis applied to the loan market”. 2022

FUNDING

Chapman Fellowship 2022 - 2024
Imperial College London

Statistics section PhD scholarship Imperial College London	2017 - 2021
Master's scholarship (full funding and monthly stipend for one year) Fundación Barrié	2016 - 2017
Severo Ochoa grant for undergraduate research Institute of Mathematical Sciences (ICMAT-CSIC)	2016
Undergraduate research grant (<i>beca de colaboración</i>) Ministry of Education, Culture and Sport of Spain	2015
Erasmus grant Department of Culture and Education, Xunta de Galicia	2015
Erasmus grant Ministry of Education, Culture and Sport of Spain	2014

RESEARCH TALKS

Department of Quantitative Methods, CUNEF University, Madrid, Spain, 7 February 2024

RSS International Conference, Harrogate, UK, 4-7 September 2023

European Meeting of Statisticians, Warsaw, Poland, 3-7 July 2023

StatML CDT, Imperial College London, 17 May 2023

Statistics Seminar, Imperial College London, 10 March 2023

32nd European Conference on Operational Research, Aalto University, Espoo, Finland, 3-6 July 2022

XXXIX Congreso Nacional de Estadística e Investigación Operativa, Granada, Spain, 7-10 June 2022

International Seminar on Selective Inference (as discussant), 26 May 2022

15th International Conference of the ERCIM WG on Computational and Methodological Statistics, King's College London, UK, 18-20 December 2021

International Seminar on Selective Inference, 2 December 2021

New Bridges between Mathematics and Data Science, Valladolid, Spain, 8-11 November 2021

DataLab, Institute of Mathematical Sciences, Madrid, Spain, 1 July 2021

Alastair Young's 60th Birthday Conference, Washington University in St. Louis, USA, 16 August 2019

PEER REVIEW

Referee for:

- Biometrika
- The Annals of Statistics
- Journal of the Royal Statistical Society, series B
- Journal of the American Statistical Association
- Electronic Journal of Statistics

- Journal of Machine Learning Research

LANGUAGES

- English: full professional proficiency
- Spanish: native
- Galician: native