



RICCARDO BERGAMIN

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SKILLS

- Data Science
- Statistics, Bayesian statistics, probability
- Probabilistic programming (Pyro, Stan)
- Generative models
- High-dimensional data analysis
- Data visualization
- Stochastic processes

- Programming
- Python (NumPy, pandas, scikit-learn, PyTorch)
- R (tidyverse, Bioconductor)
- Bash / Shell scripting

- Analytical Skills
- Analytical problem solving
- Quantitative reasoning and abstraction
- Hypothesis-driven data analysis
- Mathematical modelling

- Computational Genomics
- Bulk genomics (WGS,WES)
- Single-cell genomics (scRNA-seq, scATAC-seq)
- Spatial transcriptomics

- Other / Soft Skills
- Mentoring and supervision
- Team working
- Scientific communication

SUMMARY

Data scientist with a background in physics and computational genomics, with hands-on experience in translational cancer research. Interested in tackling complex problems through quantitative reasoning, and experienced in collaborative, multidisciplinary environments, contributing thoughtful ideas and careful analysis to research questions. Skilled in mathematical modeling and Bayesian inference, and motivated by translating rigorous quantitative models into real-world impact

EXPERIENCE

December 2020 - December 2025

Postdoctoral Researcher University of Trieste | Trieste, TS

- Developed mathematical and statistical inference frameworks for timing genomic events relative to therapy, enhancing analysis of bulk WGS data.
- Applied timing models to translational questions, linking evolutionary dynamics with clinical decision-making and improving protocol refinement.
- Designed probabilistic models to study plastic prognostic markers, leveraging bulk WGS, and spatial transcriptomics.
- Contributed to development of computational genomics tools and pipelines, facilitating reproducible analysis, benchmarking, and machine learning applications.
- Mentored Master's and PhD students, and taught in computational genomics classes.

EDUCATION

October 2015 - October 2019

PhD | Theoretical particle physics

International School of Advanced studies (SISSA), Trieste, TS

- Graduated with Laude

October 2013 - October 2015

Laurea Magistrale | Physics

Università di Padova, Padova

- Grade: 110L

September 2014 - September 2015

Visiting MSc student | Theoretical physics

Imperial College London, London

October 2010 - October 2010
Laurea Triennale | Physics
Università di Padova, Padova
• Grade 110

LANGUAGES

Italian: First Language

English: C2

Proficient

