Alexis **Bellot**

London, UK

alexis.b11@hotmail.com   alexisbellot.github.io/Website/

Education

University of Cambridge — ***Cambridge, United Kingdom***

PhD Applied Mathematics - Machine Learning — *Expected Sept. 2020*

- I develop algorithms and predictive models to help clinicians give individualized care to their patients.
- I am affiliated with - and funded by - the Alan Turing Institute.
- Supervisor: Prof. Mihaela van der Schaar.

University of Oxford — ***Oxford, United Kingdom***

MSc Applied Statistics — *Sept. 2017*

- MSc Grade: Distinction.
- Courses in Graphical Models, Applied Statistics, Foundations of Statistical Inference, Statistical Programming, Statistical Machine Learning, Bayes Methods, Computational Statistics, Data Mining and Machine Learning.

Imperial College London — ***London, United Kingdom***

BSc Mathematics — *Jun. 2016*

- BSc Grade: First Class Honours.
- Courses in all areas of Mathematics with a specialization in Statistics.

Publications

Causal inference

- Y. Zhang, A. Bellot, M. van der Schaar, ”Learning Overlapping Representations for the Estimation of Individualized Treatment Effects”, *AISTATS, 2020*.

Hypothesis testing

- A. Bellot, M. van der Schaar, ”Conditional Independence Testing using Generative Adversarial Networks,” *NeurIPS, 2019*.

Risk prediction

- Z. Qian, A. Alaa, A. Bellot, M. van der Schaar, ”Learning Dynamic and Personalized Comorbidity Networks from Event Data using Deep Diffusion Processes”, *AISTATS, 2020*.
- A. Bellot, M. van der Schaar, ”A Bayesian Approach to Modelling Longitudinal data”, *Health workshop NeurIPS, 2019*.
- A. Bellot, M. van der Schaar, ”Boosting Transfer Learning with Survival Data from Heterogenous Domains,” *AISTATS, 2019*.
- A. Bellot, M. van der Schaar, ”Multitask Boosting for Survival Analysis with Competing Risks,” *NeurIPS, 2018*.
- A. Bellot, M. van der Schaar, ”Boosted Trees for Risk Prognosis,” *Machine Learning for Healthcare Conference (MLHC), 2018*.
- A. Bellot, M. van der Schaar, ”A Hierarchical Bayesian Model for Personalized Survival Predictions,” *IEEE J. BHI, 2018*.
- A. Bellot, M. van der Schaar, ”Tree-based Bayesian Mixture Model for Competing Risks,” *AISTATS, 2018*.

Work Experience

PIMCO — ***London, United Kingdom***

Summer Analyst, Global Wealth Management — *Jun. 2016 - Aug. 2016*

- Internship with an asset manager in the financial industry.
- Duties consisted in providing overall support to senior staff and clients.

Undergraduate Research, Imperial College London — ***London, United Kingdom***

Research Intern on Extreme Value Theory (Prof. Rama Cont) — *Feb. 2015 - Jun. 2015*

- 6-month collaboration on a research project aside from my undergraduate studies.
- Investigated extreme returns of a financial index under the framework of Extreme Value Theory (that formally describes the likelihood of extreme events).
- Produced a written report with overview of the theory and findings.