

# Kurt Cutajar

PhD Candidate in Machine Learning



## about

Nationality - Maltese  
Date of Birth - 1993

## languages

English, Maltese  
Italian and French

## programming

Python, Matlab  
Spark, Java  
C, JavaScript

## interests

Data Science  
Machine Learning  
Big Data

## contact

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kurtcutajar.com

## education

- 2015–2018 **PhD in Machine Learning (Ongoing)** EURECOM, France  
Thesis: *Scalable Inference for Gaussian Processes*  
Registered under the Doctoral School of Université Pierre-et-Marie-Curie  
Supervised by Dr. Maurizio Filippone
- 2014–2015 **MSc in Data Science (Distinction)** University of Glasgow, UK  
Class Prize for Best Student in all MSc Computing Science courses  
Class Prize for Best Dissertation in all MSc Computing Science courses
- 2011–2014 **BSc in Computer Science + AI (First Class Honours)** University of Malta, Malta  
Graduated 1<sup>st</sup> Place Overall from the Faculty of ICT  
Achieved the Dean's List Award for outstanding academic performance

## experience

- 2017 **University of Oxford** UK  
*Visiting Student*  
Invited by Dr. Michael A. Osborne to join the Machine Learning Research Group to work on probabilistic numerics for Gaussian processes.
- 2012–2014 **Ixaris Systems Ltd.** Malta  
*Junior Software Developer (Intern)*  
Three Summer placements involving various programming tasks related to the addition of functionality to the core product of the company.
- 2011 **Bank of Valletta (BOV) plc.** Malta  
*IT Support (Intern)*  
Liaising and interacting with the different departments within BOV, assisting in the set-up and maintenance of their hardware/software requirements.

## publications

### Random Feature Expansions for Deep Gaussian Processes

K. Cutajar, E. V. Bonilla, P. Michiardi and M. Filippone. *International Conference on Machine Learning (ICML)*, Sydney 2017.

### Preconditioning Kernel Matrices

K. Cutajar, J. P. Cunningham, M. A. Osborne and M. Filippone. *International Conference on Machine Learning (ICML)*, New York 2016.

### Accelerating Deep Gaussian Process Inference with Arc-Cosine Kernels

K. Cutajar, E. V. Bonilla, P. Michiardi and M. Filippone. *Advances in Neural Information Processing Systems (NIPS)*, Workshop on Bayesian Deep Learning, Barcelona 2016.

### AutoGP: Exploring the Capabilities and Limitations of Gaussian Process Models

K. Krauth, E. V. Bonilla, K. Cutajar and M. Filippone. *Uncertainty in Artificial Intelligence (UAI)*, Sydney 2017.

### Bayesian Inference of Log Determinants

J. Fitzsimons, K. Cutajar, M. A. Osborne, S. Roberts and M. Filippone. *Uncertainty in Artificial Intelligence (UAI)*, Sydney 2017.

### Entropic Trace Estimates for Log Determinants

J. Fitzsimons, D. Granzol, K. Cutajar, M. Filippone, M. A. Osborne and S. Roberts. *European Conference on Machine Learning and Practice of Knowledge Discovery in Databases (ECML/PKDD)*, Macedonia 2017.