

Kurt Cutajar

PERSONAL DATA

PLACE OF BIRTH: Malta
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EDUCATION

- 2015-2019 PhD in MACHINE LEARNING, Sorbonne University/EURECOM, France
Thesis: “Broadening the Scope of Gaussian Processes for Large-Scale Learning”
Advisor: Dr. Maurizio FILIPPONE
- 2014-2015 MSc in DATA SCIENCE, University of Glasgow, UK
Graduated with Distinction
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 AND AI, University of Malta, Malta
Graduated with First Class Honours
Awarded 1st Place Overall from the Faculty of ICT
Achieved the Dean’s List Award for outstanding academic performance

WORK EXPERIENCE

- NOV 2020-PRESENT | Applied Scientist at AMAZON, LONDON, UK
Machine learning at Amazon PrimeVideo.
- OCT 2019-OCT 2020 | Machine Learning Scientist at AMERICAN INTERNATIONAL GROUP (AIG)
LONDON, UK
Worked within the Investments AI team.
- JUN-SEP 2018 | Applied Scientist Research Intern at AMAZON, CAMBRIDGE, UK
Joined the emulation team within Amazon research where I contributed towards the development of multi-fidelity methods from both a methodological and practical perspective.
- JUN-AUG 2017 | Visiting Student at UNIVERSITY OF OXFORD, UK
Invited by Dr. Michael A. Osborne to join the Machine Learning Research Group for the Summer to work on probabilistic numerics for Gaussian processes.
- JUL-SEP 2012/13/14 | Junior Software Developer Intern at IXARIS SYSTEMS, Malta
Three Summer placements involving various programming tasks related to the addition of functionality to the core product of the company – electronic payment solutions.
- JUL-SEP 2011 | IT Support Intern at BANK OF VALLETTA, Malta
Liaising and interacting with the different departments within BOV, assisting in the set-up and maintenance of their hardware/software requirements.

PUBLICATIONS

Deep Gaussian Processes for Multi-fidelity Modeling

K. Cutajar, M. Pullin, A. Damianou, N. Lawrence, and J. González. *Advances in Neural Information Processing Systems (NeurIPS)*, Third Workshop on Bayesian Deep Learning, Montréal 2018.
Extended version available on arXiv.

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.

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. Granzio, 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.

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 (NeurIPS)*, First Workshop on Bayesian Deep Learning, Barcelona 2016.

INVITED REVIEWING

CONFERENCES: NeurIPS 2018 [Top 30% Reviewer], ICLR 2019,
ICML 2019 [Top Reviewer - Awarded complimentary registration]
NeurIPS 2019 [Top Reviewer - Awarded complimentary registration]
ICML 2020 [Top Reviewer], NeurIPS 2020, NeurIPS 2021, ICLR 2021
JOURNALS: Machine Learning, Neural Networks, ACML Journal Track

LANGUAGES

ENGLISH: Native
MALTESE: Native
ITALIAN: Fluent
FRENCH: Conversational