Curriculum Vitae

Aristeidis Panos

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EDUCATION

UNIVERSITY COLLEGE LONDON (UCL), **Ph.D. Machine Learning.** Sept 2019.
Extreme Multi-label Learning with Gaussian Processes.
Supervisor: Prof. Petros Dellaportas (UCL) Co-supervisor: Dr. Michalis Titsias (Google DeepMind).

ATHENS UNIVERSITY OF ECONOMICS AND BUSINESS, **B.Sc. Informatics.** June 2014.
First Class Honours (2014 Valedictorian).
Thesis: Markov Chain Monte Carlo algorithms using C++ for Bayesian Context Trees.
Thesis advisor: Prof. Ioannis Kontoyiannis.

RESEARCH INTERESTS

Machine Learning, Bayesian Statistics, Probability and Stochastic Processes.

ACADEMIC APPOINTMENTS

Department of Engineering, University of Cambridge (Computational and Biological Learning Lab) / Toyota Motor Corporation.
Post-Doctoral Research Associate. Project title: "Developing new fundamental tools for machine intelligence and machine learning". Feb. 2022 - Now.

Department of Statistical Science, University College London
Post-Doctoral Research Fellow. Project title: "Forecasting wind farm output using machine learning methods". Dec. 2021 - Jan. 2022.

Department of Statistics, University of Warwick / The Alan Turing Institute
Post-Doctoral Research Fellow. Project title: "Mechanistic marked spatio-temporal point processes" for large-scale data-analytic applications". Nov. 2020 - Nov. 2021.

PROFESSIONAL APPOINTMENTS

EASYJET PLC (UK)
Data scientist, projects involved: Bayesian pricing model, causal inference using machine learning algorithms, multi-echelon inventory optimization. Sept. 2018 - Dec. 2019.

GlaxoSmithKline (GSK) PLC (UK)
Machine learning consultant, projects involved: Yield optimization of multi-stage chemical process used for medicine production. June 2020 - Oct. 2020.

AWARDS, DISTINCTIONS

AWARD FOR HIGH PERFORMANCE IN THE GREEK NATIONAL EXAMS
Department of Informatics, Athens University of Economics and Business. Oct. 2009.

MYTILINAIOS AWARD
The annual Mytilinaios Award from the Department of Informatics, Athens University of Economics and Business for the performance excellence in 3 undergraduate courses: Automata Theory, Mathematical Logic, Computability Theory. April 2012.

RESEARCH STUDENTSHIP
Research studentship from the Department of Statistical Science, University College London. Oct. 2015 - Oct. 2018.

SEMINARS, WORKSHOPS, INTERNSHIPS, TALKS

Greek Stochastics ϵ'
Jump processes: Probability, Statistical Inference and Financial Modeling, Kalamata, Greece, July 2014.

ALAN TURING INSTITUTE
High-Dimensional Statistical Models and Big Data:
Methodology and Applications workshop, London, UK, Feb. 2016.

ALAN TURING INSTITUTE
Internship, Project: Machine Classifiers and Similarity measures, London, UK, June 2016 - Aug. 2016.

Greek Stochastics ι'
Model Determination, Milos, Greece, July 2017.

ONASSIS FOUNDATION
The 2017 Lectures in Computer Science:
BIG DATA and Applications, Heraclion, Crete, Greece, Aug. 2017.

(**Talk**) "Fully Scalable Gaussian Processes using Subspace Inducing Inputs" with P. Dellaportas and M. K. Titsias. Greek Stochastics κ', Athens, Greece, Dec. 2018.

(**Talk**) "Scalable Marked Spatio-Temporal Point Processes For Event Sequence Data." Workshop: Trusted Digital Infrastructure for Identity Systems, The Alan Turing Institute, London, UK, Dec. 2020.

(**Poster/Video Presentation**) "Scalable and Interpretable Marked Point Processes." Conference: Turing trustworthy digital identity conference, The Alan Turing Institute, London, UK, Sept. 2021.

TEACHING

Introductory Statistical Methods and Computing (UCL), demonstrator/marker, Sept. 2016 - Dec. 2018.

REVIEWING EXPERIENCE

Conferences

International Conference on Machine Learning (ICML),
International Conference on Artificial Intelligence and Statistics (AISTATS).

PUBLICATIONS

Under Review

A. Panos, I. Kosmidis, and P. Dellaportas. "Scalable Modelling for Football Association In-game Events".

Published

C. Daskalakis, P. Dellaportas, and A. Panos. "How Good are Low-Rank Approximations in Gaussian Process Regression?". **(Oral)** In the *the 36-th AAAI Conference on Artificial Intelligence (2022).*

S. Bobadilla-Suarez, C. Ahlheim, A. Mehrotra, A. Panos and B.C. Love . "Measures of Neural Similarity". *Computational Brain & Behavior, Springer*, pp. 1–15, Dec. 2019.

A. Panos, P. Dellaportas, and M.K. Titsias. "Large Scale Multi-Label Learning using Gaussian Processes." *Machine Learning Journal, Springer*, April 2021.

Unpublished manuscripts

A. Panos, P. Dellaportas, and M.K. Titsias.
"Fully Scalable Gaussian Processes using Subspace Inducing Inputs." *arXiv online manuscript*, July *2018.*

A. Panos, I. Kosmidis, and P. Dellaportas. "Scalable and Interpretable Marked Point Processes". *arXiv online manuscript*, May 2021.

COMPUTING SKILLS

Programming languages: Python, C++, C, Java.
Engineering Software: Matlab, Scilab.
Data Bases Software: SQL.