

# 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

Probabilistic Machine Learning, Gaussian processes, Approximate Inference methods, Continual learning.

### 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  $\epsilon'$

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  $\iota'$

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  $\kappa'$ , 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.