

# Stylianos Kampakis

## Curriculum Vitae

### Personal Statement

- I am proficient in a huge spectrum of techniques ranging from **classical statistics** (linear regression, significance testing, forecasting), to **machine learning** (neural networks, decision trees, naïve Bayes, ensemble methods, etc.), **Bayesian statistics** (conjugate modelling, markov-chain monte carlo, etc.), **computational intelligence** (genetic algorithms, fuzzy logic), and **data mining** (association rule mining, clustering, etc.).
- Proficient in most popular open source and proprietary technologies for analytics such as **R, Python** and SQL, Matlab, Mathematica, SPSS, Minitab, Genstat Weka, Rapidminer, Drooms.
- **YTIIL and GMF fellow**. The Young Transatlantic Innovative Leaders Initiative, is a program run by the German Marshall Fund and the U.S. State Department, promoting innovation and collaboration between the countries of the European Union and the United States.
- Member of the **Royal Statistical Society**.

### Education

**PhD Computer Science** (2012-2016) at *University College London*. Thesis title: Predicting football injuries using statistical modelling and machine learning. Sponsored by Tottenham Hotspur FC and the European PGA Tour.

**MSc Informatics** (2011-2012) at *The University of Edinburgh*. Awarded with *distinction* and the prize for the best dissertation.

**MSc Intelligent Systems** (2009-2011) at *Aristotle University of Thessaloniki*. Final grade: 9.3/10 (*distinction*).

**BSc Mathematics and Statistics** (2011-2016) at *The Open University*. Final grade: Upper second-class honours.

**Diploma in Economics** (2009-2011) at *The Open University*

**BSc Psychology** (2005-2009) at *Aristotle University of Thessaloniki*: Final grade 7.6/10 (UK equivalent 2:1)

### Work Experience

*2016 October – Ongoing, London*: Consultant and mentor for various short projects with startups in London. Example projects include: recommender system specification, sentiment analysis, implementing deep neural networks for classification and statistical modelling. Details available on request.

*2017 July – Ongoing, London*: Chief Data Scientist at Nitrous, working on creating a curriculum for teaching data science to developers and creating an automated platform for data cleaning

*2017 October – Ongoing, London*: Honorary Research Fellow at the UCL Centre for Blockchain Technologies

*2015 July – Ongoing, London*: Data scientist at Brandtix, building the first index in the world that evaluates athlete's both in terms of performance and social media presence. I worked in various projects using a variety of methodologies such as the generalized linear model, sentiment analysis and text classification.

*2014 Jan - 2015 June, London*: Consultant at SportsFix, helping the company develop a sports article summarizer using machine learning and natural language processing. I created the architecture for the system and created proof-of-concept summarizers in Python and Java.

2014 Sep - 2014 Nov, London: Consultant at BUPA, summarizing the literature on health recommender systems

2013 June - 2014 Dec, London: Consultant at Senta Technologies, using machine learning and Bayesian statistics in order to design a system that can detect behavioral deviations that pinpoint to an intruder. I created the research plan, and the architecture for the system. Once the data was collected I ran analyses using R.

2013 Nov - 2014 July, London: Consultant at Ticklr, developing a contented-based recommender system in PHP.

2012 Oct - 2013 Mar, London: Consultant at Europcar Cyprus, building statistical models to forecast demand in R and delivering the solution in Java.

2014 London: I provided some consultancy services to the Royal Ballet with regarding collecting and preparing data for the purposes of predicting injuries.

2010 Sep - 2011 June, Thessaloniki: Worked as technical research support in the department of psychology at Aristotle University of Thessaloniki. My duties involved writing software for research in psychology using Matlab.

## Academic publications and academic experience

Mourouzis T., Kampakis S. (2017), The evolution of User-Selected Passwords: Have we learned from past mistakes? A quantitative empirical analysis of publicly available datasets., Submitted to Information Systems Research

Kampakis S., Kosmidis I., Diesel W., Leng Ed (2015), A supervised PCA logistic regression model for predicting fatigue-related injuries using training GPS data, MathSports International 2015

Kampakis S. (2014), Are non-standard neural behaviors computationally relevant?, Neural Computation Theory and Applications 2014

Kampakis S. (2014), Using Twitter to predict football outcomes, <http://arxiv.org/abs/1411.1243>

Kampakis S. (2013), Investigating the computational power of spiking neurons with nonstandard behavior, Journal of Neural Networks

Kampakis S. (2013), Comparison of machine learning methods for predicting the recovery time of professional football players after an undiagnosed injury, European Conference on Machine Learning, 2013

Kampakis S. (2012), Improved Izhikevich neurons for spiking neural networks, Journal of Soft Computing, DOI: 10.1007/s00500-011-0793-1

Kampakis S., Giannouli V., Tsolaki M., (2011), (translated from Greek) Using decision trees for the differential diagnosis of Alzheimer and vascular dementia, 25th Panhellenic conference of Greek Neurologists

Kampakis S. Giannouli V., (2011), (translated from Greek) Using temporal automata for artificial grammar learning, 3rd Panhellenic Conference of Cognitive Science

Kampakis S., Mihailidis N., Petridis D., Siatra V., Terzopoulou A., Tsironis T., Fountoulakis K., (2011), Validity and reliability of the electronic versions of the CES-D questionnaire and the Theory of mind - Picture stories test, 2nd International Congress on Neurobiology, Psychopharmacology & Treatment Guidance

I have also been an academic referee at the following journals and conferences,: *IEEE Transactions on Neural Networks, Neurocomputing, Computational Intelligence and Neuroscience, Translational Engineering in Health and Medicine, European Conference on Machine Learning*