

Panagiotis Fytas

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EDUCATION

- 09/2021 - **PhD in Computation, Cognition and Language** - Language Technology Lab, University of Cambridge, United Kingdom
Currently Supervisor: Professor Anna Korhonen
Research Topic: Disease severity and pathology classification using **multimodal** information (e.g. radiology reports, X-rays and blood tests), while focusing on **model interpretability**.
- 09/2019 - **MSc Advanced Computing** - Imperial College London, United Kingdom
09/2020 Grade: 85% (Distinction, Top of the Program)
Modules: Natural Language Processing, Reinforcement Learning, Machine Learning for Imaging, Deep Learning, Computational Optimisation, Math for Machine Learning, Privacy Engineering.
Thesis on NLP: "What Makes a Scientific Paper be Accepted for Publication?"
- 09/2012 - **Diploma in Electrical and Computer Engineering** (BSc & MEng equivalent) -
07/2019 National Technical University of Athens (NTUA), Greece
Grade: 8.58 / 10
Specialization: Computer Science
Thesis on Software Engineering: "Parallelising DPOR Algorithms in Concuerror"
- 02/2016 - **Politecnico di Milano**, Italy
07/2016 Erasmus Exchange Student in MSc in Computer Science and Engineering.

WORK EXPERIENCE / ACADEMIC PROJECTS

- 09/2022 - **Supervisor**, University of Cambridge, United Kingdom
05/2023 Supervising the LI18: Computational Linguistics module, as well as co-supervising a Master's student on a year-long research project.
- 10/2020 - **Pharmacy Employee**, Athens, Greece
08/2021 Supporting a family member's business during COVID-19.
- 03/2020 - **Master Thesis**, Imperial College London, United Kingdom
09/2020 Developed Deep Learning and Causal-ML models for predicting the acceptance of scientific papers for publication based on their peer reviews, while determining the aspects of the paper that affect its acceptance through various Explainable AI techniques.
- 01/2019 - **Software Engineer**, Performance Technologies S.A., Athens, Greece
08/2019 While working on a project with the largest telecommunications provider in Greece, developed a scalable, elastic and fault-tolerant database replication software that would replicate tables from Oracle databases, streamed on Kafka, to a Vertica database using Structured Streaming.
- 01/2017 - **Research Assistant**, Software Engineering Lab, NTUA, Athens, Greece
11/2018 Developed the distributed version of Concuerror, a stateless model checking tool for testing and verifying concurrent Erlang programs using multiple dynamic partial order reduction (DPOR) algorithms, coding in Erlang using Erlang/OTP and Git. Have achieved linear scalability up to thousands of concurrent workers.

PUBLICATIONS

- 11/2021 **What Makes a Scientific Paper be Accepted for Publication?**, Causal Inference + NLP Workshop, EMNLP 2021

AWARDS AND HONOURS

- 11/2020 **The Winton Capital Prize for the Best MSc Advanced Computing Student**, Imperial College London, United Kingdom
- 09/2021 **Harding Distinguished Postgraduate Scholarship**, University of Cambridge, United Kingdom

SKILLS

Programming Languages: Python, Java, C, C++, Erlang, Bash, PHP, Matlab, OCaml, Haskell
Frameworks: Apache Spark, PyTorch, Scikit-learn, Spacy, Nltk, Lime, Numpy, Pandas, FastAPI, Unittest, OpenMP, MPI, Hadoop MapReduce
Databases: PostgreSQL, Vertica, MySQL
Other: Git, Jenkins CI, Docker, Apache Kafka, HDFS, \LaTeX

LANGUAGES

English(fluent), Greek(native speaker), Italian(beginner)

RESEARCH INTERESTS

NLP, Multimodality, Interpretability, Causal Inference, Biomedical NLP