

Vasileios Gkolemis

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EDUCATION

University of Edinburgh

MSc Operational Research with Data Science - with Distinction 78/100

Dissertation: Robust Optimisation Monte Carlo for Likelihood-Free Inference

Edinburgh, Scotland, UK

Sep. 2019 – Oct. 2020

University of the Basque Country

Erasmus in "Escuela Universitaria de Ingenieria"

Vitoria-Gasteiz, Spain

Jan. 2016 – Jun. 2016

Aristotle University of Thessaloniki

Diploma in Electrical and Computer Engineering - 7.56/10

Dissertation: Stereoscopic vision using artificial neural networks

Thessaloniki, Greece

Sep. 2011 – Oct. 2017

High School

The American College of Greece

Final GPA: 18.4/20

Athens, Greece

Sep. 2008 – Jun. 2011

PROFESSIONAL/RESEARCH EXPERIENCE

Research Assistant at **ATHENA Research and Innovation Center**

Research Projects: XMANAI Explainable AI

Athens, Greece

Nov. 2020 –

Research Assistant at **Multimedia Understanding Group**

Research Projects: BigO, i-prognosis

Thessaloniki, Greece

Jan. 2018 – Aug. 2019

WORKSHOPS - ONLINE COURSES

Coursera Online Courses

- **TensorFlow Developer Professional Certificate:** (i) Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning
- **Deep Learning Specialization:** (i) Structuring Machine Learning Projects, (ii) Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization, (iii) Neural Networks and Deep Learning

KNOWLEDGE - TECHNICAL SKILLS

Knowledge:

- **Machine Learning:** Deep Neural Networks (CNN, LSTM), Bayesian Modeling, Probabilistic Graphical Models, Gaussian Processes
- **Optimization:** Linear (Simplex, Interior Points), Non-Linear (First/Second Order Methods), Combinatorial

Machine Learning Skills:

- **Deep Learning:** PyTorch, Tensorflow, Keras
- **Probabilistic Modeling:** Pyro, GPyTorch, PyMC3
- **Data Science:** Hadoop, Spark
- **Scientific Computing Libraries:** Numpy, Scipy, Pandas, Matplotlib, openCV, Scikit-learn

IT Skills:

- **Programming languages:** Python, C, Java, R, Matlab, Scala
- **Cloud Computing:** AWS, Google Cloud Platform
- **Parallel Programming:** CUDA, Pthreads
- **Database Development:** MongoDB, Cassandra, MySQL
- **Operating Systems:** Linux
- **Other skills:** Git, Github, LaTeX

FOREIGN LANGUAGES

- **English:** Proficient User • C1 • IELTS: 7.5/10 Band Score
- **Spanish:** Independent User • B2 • Delle
- **French:** Basic User • A2 • Delf

ABOUT ME

I completed my diploma in electrical and computer engineering at the Aristotle University of Thessaloniki in November 2017. Throughout my studies, I mainly focused on machine learning with applications in computer vision. In my dissertation, I was primarily involved in the domain of Deep Learning. Afterwards, I worked as a research associate in the EU-funded project BigO. Since September 2019, I study Operational Research with Data Science at the University of Edinburgh, where I am mainly interested in the domains of Probabilistic (Bayesian) Machine Learning and Optimisation. Apart from the world of engineering, I love traveling, playing football and watching movies.