

# Yorgos Felekis

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## EDUCATION

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<b>PhD, Machine Learning</b> <i>University of Warwick</i> <ul style="list-style-type: none"><li>Research Focus: Causal Inference, Digital Twins, Probabilistic Machine Learning</li><li>Member of the <a href="#">Warwick Machine Learning Group</a></li></ul>	Oct. 2022 – present <i>Coventry, UK</i>
<b>MSc, Machine Learning</b> <i>University College London - UCL</i> <ul style="list-style-type: none"><li>Degree awarded with Distinction</li></ul>	Sep. 2019 – Sep. 2020 <i>London, UK</i>
<b>BSc, Mathematics</b> <i>National and Kapodistrian University of Athens</i> <ul style="list-style-type: none"><li>Degree awarded with First Class Honours</li></ul>	Oct. 2014 – Jul. 2019 <i>Athens, GR</i>

## EXPERIENCE

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<b>Research Engineer</b> <i>Advanced Blockchain AG</i> <ul style="list-style-type: none"><li>Work on the intersection of Artificial Intelligence and Blockchain technology and the mathematical aspects of DeFi. Specifically, study of the Automated Market Makers' dynamics via Multi-agent Reinforcement Learning Simulations and Adversarial Learning.</li><li>Organizer of the weekly Research seminar (paper reviews, invited talks, brainstorming sessions).</li></ul>	Dec. 2021 – Jul. 2022 <i>Berlin, DE</i>
<b>Machine Learning &amp; Data Science Consultant</b> <i>Ernst &amp; Young (EY)</i> <ul style="list-style-type: none"><li>Work on AI-related platforms and technologies with a focus on Natural Language Processing and Natural Language Understanding at the IBM TechHub of EY. In particular, the work was focused on Text Classification, Document Retrieval, QA, and summarization tasks.</li></ul>	Aug. 2021 – Dec. 2021 <i>Athens, GR</i>
<b>Machine Learning Engineer</b> <i>LangAware</i> <ul style="list-style-type: none"><li>Design and develop productised and deployed machine learning models for predicting neurodegenerative diseases with Natural Language Processing techniques. Specifically, work on Dementia, Alzheimer and Parkinson's diseases.</li></ul>	Jan. 2021 – Jun. 2021 <i>Athens, GR</i>
<b>Visiting Researcher</b> <i>National Centre for Scientific Research "Demokritos"</i> <ul style="list-style-type: none"><li>Mentoring and supervising internship projects of undergraduate students, as part of their BSc Diploma.</li></ul>	Sep. 2019 – Sep. 2020 <i>Athens, GR</i>
<b>Research Scientist</b> <i>National Centre for Scientific Research "Demokritos"</i> <ul style="list-style-type: none"><li>Experimentation with Transfer Learning techniques with popular neural network architectures (AlexNet, ResNet, VGG16).</li><li>Creation of a Sentinel-2A based dataset called "Ionio dataset" and training of a Convolutional Neural Network in order to classify Agricultural and Non-Agricultural land cover. (see publication below)</li><li>Organise multiple workshops as the main speaker for students and researchers on Deep Learning techniques and their applications to Remote Sensing.</li></ul>	Dec. 2018 – Aug. 2019 <i>Athens, GR</i>
<b>Research Intern</b> <i>National Centre for Scientific Research "Demokritos"</i> <ul style="list-style-type: none"><li>Literature review of SOTA Deep Learning models for remote sensing image processing and satellite imagery.</li></ul>	Aug. 2018 – Dec. 2018 <i>Athens, GR</i>

## PUBLICATIONS

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- Probabilistic Deep Learning with Generalised Variational Inference** 2022
- Felekis G., Damoulas T., Paige B., 4th Symposium on Advances in Approximate Bayesian Inference ([link](#))
- The generalized  $\lambda$ -Constant Function Market Makers** 2022
- Felekis G., Kristensen J., IEEE Blockchain, 2022 ([link](#))
- Cryptocurrency price prediction with Multi-task Multi-step Sequence-to-Sequence Modeling** 2022
- Kristensen J., Madrigal-Cianci J.P., Felekis G., Liatsikou M., IEEE Blockchain, 2022 ([link](#))
- Deep Learning for Agricultural Land Detection in Insular Areas** 2019
- Charou E., Felekis G., Bournou D. et.al., 10th International Conference on Information, Intelligence, Systems and Applications, 2019 ([link](#))

## HONOURS & AWARDS

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- Turing AI Acceleration Fellowship** Oct. 2022 – Apr. 2026
- Onassis Scholarship for Doctoral Studies** Oct. 2022 – Oct. 2025

## TALKS & POSTERS

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- Optimal Transport for Causal Abstractions** Mar. 2023  
*Warwick Postgraduate Colloquium in Computer Science* *University of Warwick, Coventry, UK*
- Probabilistic Deep Learning with Generalised Variational Inference (poster)** Feb. 2022  
*4th Symposium on Advances in Approximate Bayesian Inference* *Virtual Event*
- MSc Thesis Presentation** Jan. 2021  
*NCSR "Demokritos" Machine Learning seminar series* *NCSR "Demokritos", Athens, GR*
- Deep Learning for Agricultural Land Detection in Insular Areas** Jul. 2019  
*10th International Conference on Information, Intelligence, Systems and Applications* *University of the Peloponnese, Patras, GR*
- Machine Learning methods for satellite image processing** Jul. 2020  
*5th Summer School of NCSR "Demokritos"* *NCSR "Demokritos", Athens, GR*
- Deep Learning trends & techniques** Sep. 2019  
*Computational Intelligence Lab seminar* *NCSR "Demokritos", Athens, GR*
- Convolutional Neural Networks for Land Use Land Cover classification** May 2019  
*Computational Intelligence Lab seminar* *NCSR "Demokritos", Athens, GR*

## SUPERVISION

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- Tanatip Timtong, BSc Computer Science Thesis** Jul. 2022 – present  
*co-supervise with Prof. Theo Damoulas @ University of Warwick* *Coventry, UK*
- Mary Karatzoglidi, Research Internship** Sep. 2019 – Jan. 2020  
*co-supervise with Dr. Eleni Charou @ NCSR "Demokritos"* *Athens, GR*

## PROJECTS

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- Generalised Variational Inference posteriors in Probabilistic Deep Learning** May 2020 – Sep. 2020
- MSc Thesis and short presentation, awarded with Distinction. ([link](#))
- ex-GPT: A Summarization Framework** Feb. 2020 – Apr. 2020
- An Extractive - Abstractive Summarization Framework with a Sentence Embeddings Twist as part of the Natural Language Processing module during my MSc in Machine Learning. ([link](#))
- Cellular location prediction of proteins** Feb. 2020 – Mar. 2020
- Predicting the subcellular location of eukaryotic proteins using a Random Forest classifier. ([link](#))
- Neural Style Transfer for Remote Sensing Images** Sep. 2019 – Feb. 2020
- Work presented in 2nd Workshop on Remote Sensing and Space Applications on Geo-sciences and Geo-hazards of Geological Society of Greece

## CONFERENCES & SUMMER SCHOOLS

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**Cambridge ELLIS Machine Learning Summer School** (2022)  
**Oxford Machine Learning Summer School** (2020)  
**Athens Probability Colloquium** (2017, 2018)  
**Athens Colloquium on Algorithms and Complexity** (2016, 2017, 2018)  
**International Conference on Algorithms and Complexity** (2017)

## TECHNICAL SKILLS

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**Languages & Developer Tools:** Python, Matlab, Julia, Git, Google Cloud Platform, IBM Watson  
**Libraries:** PyTorch, Keras, Scikit-learn, Pandas, NumPy, Matplotlib

## LANGUAGES

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**Greek:** Native      **English:** Fluent      **French:** Intermediate