

# Yorgos Felekis

[yorgos.felekis@warwick.ac.uk](mailto:yorgos.felekis@warwick.ac.uk) | [LinkedIn](#) | [Google Scholar](#) | [GitHub](#) | [Homepage](#)

## EDUCATION

---

<b>PhD, Machine Learning</b> <i>University of Warwick</i> <ul style="list-style-type: none"><li>Research Focus: Machine Learning, Causal Inference and Representation Learning, Digital Twins</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>

## PUBLICATIONS

---

<b>Causal Optimal Transport of Abstractions</b> <ul style="list-style-type: none"><li>Felekis Y., Zennaro F.M., Branchini N., Damoulas T., <i>arXiv preprint 2023</i></li></ul>	2023
<b>Interventionally Consistent Surrogates for Agent-based Simulators</b> <ul style="list-style-type: none"><li>Dyer J., Bishop N., Felekis Y., Zennaro F.M., Calinescu A., Damoulas T., Wooldridge M. <i>arXiv preprint 2023</i></li></ul>	2023
<b>Probabilistic Deep Learning with Generalised Variational Inference</b> <ul style="list-style-type: none"><li>Felekis Y., Damoulas T., Paige B., <i>4th Symposium on Advances in Approximate Bayesian Inference</i></li></ul>	2022
<b>The generalized <math>\lambda</math>-Constant Function Market Makers</b> <ul style="list-style-type: none"><li>Felekis Y., Kristensen J., <i>IEEE Blockchain, 2022</i></li></ul>	2022
<b>Cryptocurrency price prediction with Multi-task Multi-step Sequence-to-Sequence Modeling</b> <ul style="list-style-type: none"><li>Kristensen J., Madrigal-Cianci J.P., Felekis Y., Liatsikou M., <i>IEEE Blockchain, 2022</i></li></ul>	2022
<b>ex-GPT: An Extractive-Abstractive Summarization Framework with a Sentence Embeddings Twist</b>	2020
<ul style="list-style-type: none"><li>Minto L., Kmec J., Felekis Y., Filippi G., <i>preprint</i></li></ul>	
<b>Deep Learning for Agricultural Land Detection in Insular Areas</b> <ul style="list-style-type: none"><li>Charou E., Felekis Y., Bournou D. et.al., <i>IISA 2019</i></li></ul>	2019

## EXPERIENCE

---

<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>

## Visiting Researcher

Sep. 2019 – Sep. 2020

*National Centre for Scientific Research “Demokritos”*

*Athens, GR*

- Mentoring and supervising internship projects of undergraduate students, as part of their BSc Diploma.

## Research Scientist

Dec. 2018 – Aug. 2019

*National Centre for Scientific Research “Demokritos”*

*Athens, GR*

- Experimentation with Transfer Learning techniques with popular neural network architectures (AlexNet, ResNet, VGG16).
- 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)
- Organise multiple workshops as the main speaker for students and researchers on Deep Learning techniques and their applications to Remote Sensing.

## Research Intern

Aug. 2018 – Dec. 2018

*National Centre for Scientific Research “Demokritos”*

*Athens, GR*

- Literature review of SOTA Deep Learning models for remote sensing image processing and satellite imagery.

## HONOURS & AWARDS

---

### Turing AI Acceleration Fellowship

Oct. 2022 – Apr. 2026

### Onassis Scholarship for Doctoral Studies

Oct. 2022 – Oct. 2025

## TALKS & POSTERS

---

### COTA: Bridging micro and macro causal realms

Dec. 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*

### Machine Learning methods for satellite image processing

Jul. 2020

*55th Summer School of NCSR “Demokritos”*

*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*

### 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

---

### Tanatip Timtong, BSc Computer Science Thesis

Jul. 2022 – Apr. 2023

*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*

## ORGANIZATION

---

### Warwick Machine Learning reading group

Jan. 2023 – present

*Focus: Causal Inference, Robustness, Probabilistic Machine Learning*

*University of Warwick, Coventry, UK*

### Three-day Hackathon

Apr. 2023

*Organized in collaboration with other Alan Turing Institute fellows*

*University of Cambridge, Cambridge, UK*

### Computational Intelligence Lab seminar

May. 2019 – Sep. 2019

*Organized workshops, seminars and invited talks*

*NCSR “Demokritos”, Athens, GR*

## CONFERENCES & SUMMER SCHOOLS

---

**Mediterranean Machine Learning Summer School** (2023)  
**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

---

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

## LANGUAGES

---

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