

# Yorgos Felekis

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## EDUCATION

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### Doctor of Philosophy (Ph.D.), Machine Learning

Oct. 2022 – present

*University of Warwick*

*Coventry, UK*

- Area: Causality, Causal Representation Learning, Digital Twins
- Advisor: Prof. Theodoros Damoulas
- Member of the Warwick Machine Learning Group
- Enrichment student at the Alan Turing Institute (*Oct. 2024 – Jul. 2025*)

### Master of Science (M.Sc.), Machine Learning

Sep. 2019 – Sep. 2020

*University College London - UCL*

*London, UK*

- Degree awarded with Distinction
- Thesis: “Generalised Variational Inference posteriors in Probabilistic Deep Learning”
- Area: Probabilistic Machine Learning, Bayesian Inference
- Advisors: Prof. Theodoros Damoulas and Prof. Brooks Paige

### Bachelor of Science (B.Sc.), Mathematics

Oct. 2014 – Jul. 2019

*National and Kapodistrian University of Athens*

*Athens, GR*

- Degree awarded with First Class Honours
- Specialization Area: Applied and Computational Mathematics

## PUBLICATIONS

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### Causal Optimal Transport of Abstractions

2024

- **Felekis Y.**, Zennaro F.M., Branchini N., Damoulas T., *Causal Learning and Reasoning (CLearR)*, 2024

### Causally Abstracted Multi-armed Bandits

2024

- Zennaro F.M., Bishop N., Dyer J., **Felekis Y.**, Calinescu A., Wooldridge M., Damoulas T., *Uncertainty in Artificial Intelligence (UAI)*, 2024

### Interventionally Consistent Surrogates for Agent-based Simulators

2023

- Dyer J., Bishop N., **Felekis Y.**, Zennaro F.M., Calinescu A., Damoulas T., Wooldridge M. *arXiv preprint*, 2023

### Probabilistic Deep Learning with Generalised Variational Inference

2022

- **Felekis Y.**, Damoulas T., Paige B., *4th Symposium on Advances in Approximate Bayesian Inference (AABI)*, 2022

### The generalized $\lambda$ -Constant Function Market Makers

2022

- **Felekis Y.**, Kristensen J., *IEEE Blockchain*, 2022

### Cryptocurrency price prediction with Multi-task Multi-step Sequence-to-Sequence Modeling

2022

- Kristensen J., Madrigal-Cianci J.P., **Felekis Y.**, Liatsikou M., *IEEE Blockchain*, 2022

### ex-GPT: An Extractive-Abstractive Summarization Framework with a Sentence Embeddings Twist

2020

- Minto L., Kmec J., **Felekis Y.**, Filippi G., *preprint*

### Deep Learning for Agricultural Land Detection in Insular Areas

2019

- Charou E., **Felekis Y.**, Bournou D., Maria Koutsoukou M., Panagiotopoulou A., Voutos Y., Bratsolis E., Mylonas P., Likforman-Sulem L., *10th International Conference on Information, Intelligence, Systems and Applications (IISA)*, 2019

## EXPERIENCE

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### Research Engineer

Dec. 2021 – Jul. 2022

*Advanced Blockchain AG*

*Berlin, DE*

- 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.
- Organizer of the weekly Research seminar (paper reviews, invited talks, brainstorming sessions).

### Machine Learning & Data Science Consultant

Aug. 2021 – Dec. 2021

*Ernst & Young (EY)*

*Athens, GR*

- 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.

### Machine Learning Engineer

Jan. 2021 – Jun. 2021

*LangAware*

*Athens, GR*

- 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.

### 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

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### Alan Turing Institute Placement Award

Oct. 2024 – Jul. 2025

- Awarded as part of the Enrichment Scheme, to a limited number of PhD students from across the United Kingdom to spend 9 months of their studies in the Alan Turing Institute.

### Fully funded PhD position

Oct. 2022 – Apr. 2026

- Awarded via the UKRI Turing AI Acceleration Fellowship [EP/V02678X/1]: "Machine Learning Foundations of Digital Twins", awarded to Prof. Theodoros Damoulas

### Onassis Scholarship for Doctoral Studies

Oct. 2022 – Oct. 2025

- Awarded in recognition of outstanding academic performance.

## TALKS & POSTERS

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### Think, Reason and Learn in Multi-Scale Causal Systems

Jun. 2024

*Institute of Informatics & Telecommunications*

*NCSR "Demokritos", Athens, GR*

### Causal Optimal Transport of Abstractions

May 2024

*Algorithms & Computationally Intensive Inference Seminar*

*University of Warwick, Coventry, UK*

### Causal Optimal Transport of Abstractions

Apr. 2024

*Stanford AI Lab*

*Stanford University, Palo Alto, CA, USA*

### Causal Optimal Transport of Abstractions (poster)

Apr. 2024

*Causal Learning and Reasoning (CLearR)*

*UCLA, Los Angeles, CA, USA*

<b>Bridging micro and macro causal realms</b> <i>Warwick Postgraduate Colloquium in Computer Science</i>	Dec. 2023 <i>University of Warwick, Coventry, UK</i>
<b>Probabilistic Deep Learning with Generalised Variational Inference (poster)</b> <i>4th Symposium on Advances in Approximate Bayesian Inference</i>	Feb. 2022 <i>Virtual Event</i>
<b>MSc Thesis Presentation</b> <i>NCSR "Demokritos" Machine Learning seminar series</i>	Jan. 2021 <i>NCSR "Demokritos", Athens, GR</i>
<b>Machine Learning methods for satellite image processing</b> <i>55th Summer School of NCSR "Demokritos"</i>	Jul. 2020 <i>NCSR "Demokritos", Athens, GR</i>
<b>Deep Learning for Agricultural Land Detection in Insular Areas</b> <i>10th International Conference on Information, Intelligence, Systems and Applications</i>	Jul. 2019 <i>University of the Peloponnese, Patras, GR</i>
<b>Deep Learning trends &amp; techniques</b> <i>Computational Intelligence Lab seminar</i>	Sep. 2019 <i>NCSR "Demokritos", Athens, GR</i>
<b>Convolutional Neural Networks for Land Use Land Cover classification</b> <i>Computational Intelligence Lab seminar</i>	May 2019 <i>NCSR "Demokritos", Athens, GR</i>
<b>SUPERVISION</b>	

<b>Tanatip Timtong, BSc Computer Science Thesis</b> <i>co-supervise with Prof. Theo Damoulas @ University of Warwick</i>	Jul. 2022 – Apr. 2023 <i>Coventry, UK</i>
<b>Mary Karatzoglidi, Research Internship</b> <i>co-supervise with Dr. Eleni Charou @ NCSR "Demokritos"</i>	Sep. 2019 – Jan. 2020 <i>Athens, GR</i>

## ORGANIZATION

<b>Warwick Machine Learning reading group</b> <i>Focus: Causal Inference, Robustness, Probabilistic Machine Learning</i>	Jan. 2023 – present <i>University of Warwick, Coventry, UK</i>
<b>Three-day Hackathon</b> <i>Organized in collaboration with other Alan Turing Institute fellows</i>	Apr. 2023 <i>University of Cambridge, Cambridge, UK</i>
<b>Computational Intelligence Lab seminar</b> <i>Organized workshops, seminars and invited talks</i>	May. 2019 – Sep. 2019 <i>NCSR "Demokritos", Athens, GR</i>

## CONFERENCES & SUMMER SCHOOLS

**Mediterranean Machine Learning Summer School (2023)**  
**Greek Stochastics (2022, 2024)**  
**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

<b>Greek:</b> Native	<b>English:</b> Fluent	<b>French:</b> Intermediate	<b>Spanish:</b> Beginner
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