

Yorgos Felekis

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

EDUCATION

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](#)

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

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 λ -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

- 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

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

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

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 (CLear)

UCLA, Los Angeles, CA, USA

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 <i>55th Summer School of NCSR "Demokritos"</i>	Jul. 2020 <i>NCSR "Demokritos", Athens, GR</i>
Deep Learning for Agricultural Land Detection in Insular Areas <i>10th International Conference on Information, Intelligence, Systems and Applications</i>	Jul. 2019 <i>University of the Peloponnese, Patras, GR</i>
Deep Learning trends & techniques <i>Computational Intelligence Lab seminar</i>	Sep. 2019 <i>NCSR "Demokritos", Athens, GR</i>
Convolutional Neural Networks for Land Use Land Cover classification <i>Computational Intelligence Lab seminar</i>	May 2019 <i>NCSR "Demokritos", Athens, GR</i>

SUPERVISION

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

ORGANIZATION

Warwick Machine Learning reading group <i>Focus: Causal Inference, Robustness, Probabilistic Machine Learning</i>	Jan. 2023 – present <i>University of Warwick, Coventry, UK</i>
Three-day Hackathon <i>Organized in collaboration with other Alan Turing Institute fellows</i>	Apr. 2023 <i>University of Cambridge, Cambridge, UK</i>
Computational Intelligence Lab seminar <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

Greek: Native	English: Fluent	French: Intermediate	Spanish: Beginner
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