



# Nikolaos Tzagkarakis

Chief A.I. Officer

## Profile

Responsible for designing A.I. and Data architectures while managing large teams of mostly Data Scientists, Developers and Researchers. At the same time I am pursuing my own personal path of reconciling Perception (Deep Learning) with Cognition (hierarchical/graphical frameworks, e.g. Bayesian Networks), in a unified Neurosymbolic architecture.

## Employment History

### Chief A.I. Officer at SiSaf, London

June 2023

### Chief A.I. Officer at Metanomic, London

May 2022 — March 2023

In charge of Data and ML/DL/A.I. teams. Reconciling internal data operations and building data analytics architectures to support BD and Product strategies. Designed the company's economy simulation algorithm, connected to Bayesian Networks and Statistics. Designed the Neurosymbolic architecture of the company combining Deep Learning and Hierarchical Graph computations, used in gamer behaviour predictions.

### CEO at Intoolab (acquired), London

June 2016 — May 2022

In charge of the company's mission to build the first Bayesian Network in production that was able to simulate human body mechanisms and chemical pathways. Designed "Tzager", the company's Neurosymbolic framework as a SaaS platform, that allowed Pharms and Researchers, to simulate different parts of the human body interacting together, in ways that is impossible with off-the-shelf algorithms. Designed the first Bayesian framework that can incorporate existing knowledge directly from millions of papers and internal research of each customer.

- Won Digital Science (Holtzbrinck) Catalyst Grant

- Customers Talking about Tzager:

<https://sisaf.com/news/sisaf-ltd-utilizesintoolabs-tzager-ai-platform/>

### Director of Data & Marketing at iFuture, London

February 2015 — January 2018

In charge of redesigning the company's and customer's Data analytics aligning with BD and Product strategies, while at the same time designing the architecture of the company's internal tool for user behaviour prediction and next step simulations.

### Junior Marketing Manager at Adplus Web Hosting for Professionals, Athens

February 2014 — November 2014

## Details

London

United Kingdom

07415789680

[nikostzagarakis1@gmail.com](mailto:nikostzagarakis1@gmail.com)

## Links

[Personal Website](#)

[LinkedIn](#)

[Twitter](#)

## Skills

Pytorch

Python

Deep Learning

Bayesian Networks

AI / ML / NLP

Language Models

Chatbots

Neurosymbolic Architectures

Business Intelligence

Data Analysis

Economy Simulations

Leadership and Teamwork

IT Project Management

Data Mesh

Data Catalogue

Spark

Data Warehousing

Market Research, Marketing Strategy & company's Positioning.

## **Marketing Research Assistant at Aarhus University (Center for Research), Aarhus**

October 2012 — July 2014

Applied Statistics.

## **🎓 Education**

### **PhD, The Open Univerisy, London**

October 2023

Artificial Intelligence. Exploring Neurosymbolic Architectures for Self-Modelling and Inter-Agent Communication

### **MBA, Canterbury Christ Church University, London**

September 2015 — May 2017

### **BA in Business, T. E. I. Of Messolonghi, Messolonghi**

February 2008 — June 2012

## **★ Certifications**

### **Amazon Web Services**

May 2023 — May 2026

Amazon Web Services Certified Machine Learning - Specialty

## **📖 References**

**Dr Joscha Bach**

## **★ Publications**

### **Generative Image Model Benchmark for Reasoning and Representation (GIMBRR)**

March 2023

[Jascha Achterberg](#), [Ron Arel](#), [Tetiana Grinberg](#), [Adel Chaibi](#), [Joscha Bach](#), [Nikos Tzagkarakis](#)

*AAAI 2023 Spring Symposium Series EDGeS Program Chairs*

### **A Retrospective View on Designation of Origin Labeled Foods in Europe**

Athanasios Krystallis, Polymeros Chrysochou, Toulia Perrea & Nikolaos Tzagarakis (2017) A Retrospective View on Designation of Origin Labeled Foods in Europe, *Journal of International Food & Agribusiness Marketing*, 29:3, 217-233, DOI: 10.1080/08974438.2017.1307156

### **Book Chapter**

Does a North – South Division Exist in Place-related Food Quality? : A Retrospective View on Designation of Origin Labeled Foods in Europe (Book chapter). Authors: Krystallis Krontalis, Athanasios; Chrysochou, Polymeros; Tzagkarakis, Nikolaos. *International Food Product Marketing Book Series*. Wiley-Blackwell, 2015.

## ★ Hobbies

Capoeira, Playing Guitar, Reading