

# Michail Panagiotis Bofos

Utrecht, NL | mbofos@outlook.com | +35797887212 | [linkedin.com/in/michail-panagiotis-bofos](https://linkedin.com/in/michail-panagiotis-bofos)  
[github.com/mbofos01](https://github.com/mbofos01)

## Education

---

- Utrecht University**, MSc. in Artificial Intelligence September 2023 – July 2025
- GPA: 7.84/10
  - **Coursework:** Deep Learning & Pattern Recognition, Evolutionary Computing, Natural Language Processing, Human-Centered Machine Learning, Data Science for Society, AI-Driven Content Generation, Cognitive Modeling
- University of Cyprus**, BSc. in Computer Science September 2018 – June 2022
- GPA: 8.38/10
  - **Coursework:** Object-Oriented Programming, Computer Organization, Data Structures and Algorithms, Adv. Software Engineering, Systems Security, Human-Computer Interaction, Machine Learning, Web Technologies, Calculus I & II, Elements of Linear Algebra, Intro to Probability & Statistics, Theory of Computation

## Experience

---

- Researcher**, Networks Research Laboratory (NETRL) – Nicosia, CY March 2023 – July 2023
- Implemented user authentication using keystroke dynamics and Random Forests
  - Presented developed platforms at internal meetings and EU multiplier events
- Software Engineer & Researcher**, Cognitive UX GmbH – Heidelberg, DE July 2022 – July 2023
- Developed a Virtual Reality art exhibition editor using A-Frame
  - Built responsive front-end interfaces with HTML5, CSS3, and JavaScript
  - Implemented back-end services using Django and PostgreSQL
  - Enabled server-client communication via AJAX

## Projects

---

- Natural Gas Demand Prediction System using Advanced Recursive Neural Networks (LSTM & GRU)** BSc. Thesis Project
- Developed a system for hourly natural gas demand forecasting using meteorological data, implementing LSTM and GRU neural networks
  - Tools & Languages Used: Python, Keras, Pandas, Matplotlib
- Automated detection of positive/non-positive shyness in children from videos** MSc. Thesis Project
- Classified positive/non-positive shyness in videos of 12 and 15-month-old children.
  - Tools & Models Used: SAMURAI, VideoMAE, VideoMamba, VideoLLaVA, XGBoost, Optuna, OpenCV
- Graph bi-partitioning with genetic algorithms** [Link to repository](#)
- Solved the graph bi-partitioning problem using MultiStart, Iterated, and Genetic Local Search strategies combined with the Fiduccia-Mattheyses heuristic, optimized via a custom doubly linked list for efficient local search
  - Tools & Languages Used: C#
- Agriculture dashboard Netherlands** [Link to repository](#)
- Developed an interactive web dashboard visualizing Dutch agricultural trends by integrating CBS and FAOSTAT datasets; implemented dynamic choropleth maps and time-series plots; deployed with Docker Compose; enabled real-time refresh using RabbitMQ messaging
  - Tools & Languages Used: Dash (Flask-based), Python, Pandas, Plotly, Docker, RabbitMQ, Bootstrap, PostgreSQL

## Brain activity analysis

[Link to repository](#)

- Developed a pipeline for preprocessing, normalizing, and classifying multi-channel MEG time-series brain signals, including visualization of model training and saving trained models for reproducibility.
- Tools & Models Used: CNN, LSTM, RNN, Keras, NumPy, Pandas

## Various other projects

[github.com/mbofos01](https://github.com/mbofos01)

## Skills & Tools

---

**Programming Languages:** Python, Java, C, C#, C++ , Bash, JavaScript, SQL, CUDA, PHP

**Libraries/Frameworks:** Django, Dash, Plotly, A-Frame, Keras, PyTorch, Optuna, Pandas, OpenCV, OpenSSL

**Technologies:** Docker, UNIX, RabbitMQ, Wireshark, Git, Postman, PostgreSQL, Maven

**General Tools:** MS Word, MS PowerPoint, MS Access, Kanban Flow, DBeaver, VS Code

**Spoken Languages:** Greek (Native), English (Proficient), French (Basic), Dutch (Minimal knowledge)