

Nearchos Potamitis, MSc.



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Cypriot



Education




- 25 – 28  **Ph.D., Aarhus University** in Computer Science.
- 22 – 24  **M.Sc, Swiss Federal Institute of Technology, Lausanne** in Data Science.
Thesis: Fleet of Agents: Coordinated Problem Solving with Large Language Models.
- 17 – 21  **B.Sc. Swiss Federal Institute of Technology, Lausanne** in Electrical Engineering.
Project: Realisation of a tunable light source based on third-order nonlinear interaction in optical fibers.

Professional Experience

-  **Aarhus University**, Research assistant (Jan. 25 – Jul. 25).
 - Focused on improving the reasoning ability and the cost-quality trade-off of Large Language Models (LLMs).
 - As a first author, **two full papers** accepted to **ICML 2025**, and **EMNLP 2025**.
 - Advisor: Prof. Akhil Arora.
-  **European Parliament**, Data science trainee, (Sep. 24 – Dec. 24).
 - Schuman trainee at the AI unit of the European Parliament.
 - Leveraging LLMs to assess whether an application to the Transparency Register adheres to the applicable regulations.
-  **DLAB**, Student researcher (Master thesis), (Jan. 24 – Jun. 24).
 - Introduced Fleet of Agents, a novel framework utilizing LLMs as agents to navigate through dynamic tree searches, employing a genetic-type particle filtering approach.
 - Introduced CacheSaver, a framework that facilitates LLM requests by utilizing asynchronous, batched mechanisms to optimize costs and response time.
 - **Perfect grade** of 6/6 in the Master's thesis, awarded to only **top 1%** of the students.
-  **Prediggo SA**, Data science intern, (Jun. 23 – Sep. 23).
 - Developed an LLM-powered conversational bot to streamline business rule creation, enhancing user experience and accessibility.
 - Utilized state-of-the-art methods to refine the conversational bot's capabilities, ensuring optimal user engagement and satisfaction in business rule creation.
-  **EPFL FUSTIC**, Research assistant, (Nov. 22 – Apr. 23).
 - Conducted an extensive literature review and led the data collection and analysis of modern urban platforms, evaluating their capabilities in Urban Digital Twins.

Research Publications

Indicators : * Co-first authorship.

-  1. L. Klein*, **N. Potamitis***, R. Aydin, W. Robert, G. Caglar, and A. Arora, "Fleet of agents: Coordinated problem solving with large language models," ICML' 25.
-  2. **N. Potamitis***, L. Klein*, B. Mohammadi, *et al.*, "Cachesaver: A modular framework for efficient, affordable, and reproducible llm inference," EMNLP' 25 Findings.
-  3. **N. Potamitis**, L. Klein, and A. Arora, "Reasonbench: Benchmarking the (in)stability of llm reasoning," Under review: ICML' 26.

- 4 **N.Potamitis*** and A. Arora, “Are retrials all you need? enhancing large language model reasoning without verbalized feedback,” Early results: EXAIT ICML’ 25.

Projects

- **Semester project, DLAB.**
Use of foundation models to simulate and study human web navigation. Led to a paper that is planned to be published in ICLR’ 25
- **Deep learning in biomedicine, EPFL .**
Introduced and tested a novel benchmark for few-shot learning algorithms.
- **Natural language processing, EPFL.**
Used reinforcement learning from human feedback (RLHF) to train an LLM powered chatbot.
- **Deep learning, EPFL.**
Implemented and deployed a deep learning framework to train an image restoration model .
- **Network machine learning, EPFL.**
Trained graph neural networks on social graphs, to study and predict properties of nodes.
- **Systems for data management EPFL.**
Implemented large-scale data processing pipelines and recommender systems for a streaming application.
- **Large-scale data, EPFL.**
Utilized large amounts of real data provided by SBB to create our own train route planner application.
- **Machine learning, EPFL.**
Deployed shallow and deep learning models to perform sentiment classification on twitter posts.

Technical skills

Programming	▪ Python, JavaScript, Scala, SQL, C++, Shell scripting.
Frameworks	▪ PyTorch, TensorFlow, Hugging Face Transformers, Fast.ai, Pandas.
Interests	▪ Natural Language Processing, Deep Learning, Graph Neural Networks, Statistical Analysis, Data Visualization, Data mining, Big Data Processing.
Misc	▪ Git, Docker, NodeJs, Matlab, LaTeX, Power BI, Amazon Web Services, Microsoft Azure.
Languages	▪ Greek (Native), English (Full professional proficiency), French (Limited professional proficiency).

References

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