Arsenios **Hadjikyriacou**

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EDUCATION

2022 – 2024 **PhD CTU Prague (not completed)**
- Doctoral studies: Quantum Technologies
- Research topic: laser-driven ion acceleration
- Research and experimental work at ELI-Beamlines facility
- Hydrodynamic and Particle-In-Cell simulations on HPC clusters

2020 – 2022 **Master, CTU Prague**
- Laser Physics and Technology
- Research and experimental work at ELI-Beamlines facility
- Thesis: "Laser-Driven Ion Acceleration:
  analysis and theoretical interpretation of experimental data"

2017 – 2020 **Bachelor Physics, Durham University, UK**

2008 – 2015 **American Academy Larnaca**

WORK EXPERIENCE

03/2025 - Present **DeltaSoft Solutions, Larnaca**
- Full-stack web developer
- React, Python FastAPI, Postgresql, JWT auth, podman
- Development, deployment and documentation of AI-driven,
  financial reporting web app used by large financial institutions
- Design of training courses (Apache Tomcat, MongoDB) for clients

12/2024 – 03/2025 **The Cyprus Institute Internship, Nicosia**
- DiGiNN Project: implementation of pilot projects
- Consultations with partner organizations to assess IT needs

10/2022 – 10/2024 **ELI-Beamlines research centre, Prague**
- Member of ELIMAIA team
- Hydrodynamic and Particle-In-Cell simulations on HPC clusters
- Participation in experiments and other experimental activities

01/2016 – 01/2017 **JRCC, Larnaca**
- Military service at the Joint Rescue Coordination Centre

CERTIFICATIONS

July 2025 **Coursera Certifications**
HTML, CSS, JavaScript, Git, Linux and Shell Scripting

August 2025 **Coursera Certifications**
OOP in Java, Intro to AI, Microservices, Containers, DevOps and Agile

Present **Coursera Professional Certificates**
Working towards:
- Meta Front-End Developer
- IBM Full-Stack Software Developer
- IBM Generative AI Engineering
- IBM Java Developer
- Google IT Support

PORTOFOLIO

- Chess web application (React)
- EOAL data analysis and visualization dashboard (React)
- Java CLI sales analytics application
- Expertise in LLM chatbots and RAG pipelines

SKILLS

Technologies **Proficient in:**
- HTML, CSS, JavaScript and TypeScript
- React framework
- Python: numpy, pandas, matplotlib, fastAPI framework
- Docker & Podman
- Ollama
- LaTeX
- Linux

Languages **Greek (native speaker), English (fluent)**

ACHIEVEMENTS

- Scientific publications: Hadjikyriacou, A., et al. "Novel approach to TNSA enhancement using multi-layered targets—a numerical study." Plasma Physics and Controlled Fusion 65.8 (2023): 085002. DOI: 10.1088/1361-6587/acdc51
- First poster prize, ELI Summer School 2021
- 3rd place in the Cyprus Chess Championship 2017
- National Physics Olympiad 2015 (9th place)
- Member of the National Chess team. Participated in the European Youth Championship in Batumi, 2014, and the 4th European Small Nations Tournament in Guernsey, 2015

REFEREES

- Stelios Voskos
- Dr. Panayiota Katsamba, Lecturer, Department of Chemical Engineering, Cyprus University of Technology