Sygkounas Alkis

PHD at örebro university

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○ sygkounas in https://alkis-sygkounas-57539b221

🎓 https://scholar.google.com/citations?user=2Zv6T80AAAAJ 🔗 https://sygkounas.github.io/

Languages

Greek	**English**
Native	Fluent-C2

Education

PHD, *Örebro University*   06/2022 – present
Researching human-in-the-loop learning with large language models and   Örebro, Sweden
reinforcement learning.Exploring methods to improve adaptive AI systems through
interactive and iterative training.

Integrated Master,   09/2016 – 10/2021
Electical Engineering and Computer Science at University of Patras   Patra, Greece

Professional Experience

Teaching Assistance during my phd   10/2023 – present
Teaching Assistant for Machine Learning courses at both Bachelor's and Master's   Örebro, Sweden
level, every academic year since 2022.

Internship at Luleå university, Sweden   02/2021 – 06/2021
Conducted research on multi-agent exploration with reinforcement learning. This   Luleå, Sweden
internship led to an accepted paper at MED 2022.

Supervised Master Thesis Student   02/2024 – 06/2024
Supervised a master's thesis with an industry partner; student awarded highest
grade (2023) and thesis results directly applied in the company's product.

Publications

Interactive Double Deep Q-network: Integrating Human Interventions and   30/03/2025
Evaluative Predictions in Reinforcement Learning of Autonomous Driving,
The IEEE INTELLIGENT VEHICLES SYMPOSIUM (IV 2025) ⧉

Multi Agent Exploration with Reinforcement Learning,   01/06/2022
IEEE Mediterranean Conference on Control and Automation (MED), 2022 ⧉
This paper resulted from my master's thesis and internship at Luleå University of
Technology.

REvolve: Reward Evolution with Large Language Models using Human   15/02/2025
Feedback, *Proceedings of the Thirteenth International Conference on Learning*
Representations (ICLR 2025)

Skills

Python — Expert

Simulation Tools: Isaac Gym, Mujoco, AirSim — Proficient

Deep Learning — Expert

Computer Vision — Proficient

Optimization Techniques — Proficient

numpy, pandas, matplotlib — Expert

ROS/ROS2 — Competent

Reinforcement Learning — Expert

Machine Learning — Expert

Deep Learning frameworks: PyTorch, TensorFlow — Expert

Docker — Competent

Git — Proficient

Awards

3d printing award   2012
Awarded Best Project on 3D Printing (TinkerCad) in High School.

Chess Award   2011
Chess Champion, Northwest Greece Men's Tournament Won at the age of 13,

Chess Award   2008
Best Individual Performance at International Chess Tournament Among Grandmasters.

Profile

Currently in the final year of my PhD, seeking opportunities for a challenging internship. My work has progressed from human-in-the-loop reinforcement learning to building automated frameworks with large language models that replace manual human labor.