ANDREAS SOCHOPOULOS

a.sochopoulos@sms.ed.ac.uk ◇ website

EDUCATION

The University of Edinburgh, UK September 2023 - Present
PhD in Robot Learning (*SLMC lab / Honda Research Institute Europe)*
Advisors: Sethu Vijayakumar (UoE), Michael Gienger (HRI-EU), Nikolay Malkin (UoE)
Research topic: *On the safety, speed and generalization of continuous time generative (diffusion / flow) models for robot control.*

Aristotle University of Thessaloniki (AUTh), Greece September 2016 - October 2022
Diploma in Electrical and Computer Engineering (5-year degree)
Average Grade : ***9.08/10*** *("Excellent", 3rd highest grade)*
Advisor: Georgios Rovithakis
Thesis Title: *Prescribed Performance tracking and dynamic Obstacle Avoidance for Uncertain Euler-Lagrange Systems.*

TEACHING EXPERIENCE

Teaching Assistant in Applied Machine Learning September 2025 - Present
The University of Edinburgh

Tutor in Machine Learning and Pattern Recognition September 2024 - January 2025
The University of Edinburgh

RESEARCH EXPERIENCE

University of Tokyo July 2025 - August 2025
Visiting Researcher *Tokyo, Japan*

Researched point-cloud generation using diffusion models.

Italian Institute of Technology (IIT) - Advanced Robotics April 2022 - April 2023
Research Assistant *Genoa, Italy*

Developed human activity recognition and adaptive assistance systems for a lower-back support exoskeleton.

Artificial Intelligence & Information Analysis Laboratory - Aristotle University of Thessaloniki April 2021 - April 2022
Research Assistant - Part Time *Thessaloniki, Greece (Remote)*

Researched the intersection of Reinforcement Learning and Model Predictive Control for UAV control.

WORK EXPERIENCE

European Council for Nuclear Research (CERN) February 2021 - April 2022
Software Engineer *Geneva, Switzerland*

Built and maintained monitoring software running in the control room of the CMS detector and developed embedded applications for measuring equipment related safety signals.

KENOTOM P.C. July 2020 - September 2020
Software Engineering Intern *Thessaloniki, Greece*

Worked on automotive automation software and controller tuning software.

SELECTED PUBLICATIONS

Sochopoulos, A., Malkin, N., Tsagkas, N., Moura, J., Gienger, M., and Vijayakumar, S. "Fast Flow-based Visuomotor Policies via Conditional Optimal Transport Couplings." Conference in Robot Learning (CoRL), 2025.

Tsagkas, N., **Sochopoulos, A.**, Danier, D., Vijayakumar, S., Lu, C. X. and Mac Aodha, O. *"When Pre-trained Visual Representations Fall Short: Limitations in Visuo-Motor Robot Learning."* arXiv preprint (2025).

Sochopoulos, A., Gienger, M., and Vijayakumar, S. *"Learning deep dynamical systems using stable neural ODEs."* IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), 2024.

Sochopoulos, A., Poliero, T., Caldwell, D., Ortiz, J. and Di Natali, C. *"Human-in-the-loop optimization of active back-support exoskeleton assistance via lumbosacral joint torque estimation."* IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), 2023.

AWARDS AND SCHOLARSHIPS

Eurobank award for exceptional high school students 2016

A.G. Leventis Foundation PhD scholarship 2024

A.G. Leventis Foundation PhD scholarship (re-awarded) 2025

SKILLS

Programming Languages: Python, C++, C, Embedded C, ARM Cortex M0-M4 Assembly, Go
Robots I worked with: KUKA iiwa LBR, Kinova Gen3 7DoF
Languages: Greek (native), English (fluent), German (basic)