Education

KTH Royal Institute of Technology, Machine Learning — Sweden, 2023 – 2026
- *Thesis:* AI for Networked Robotics
- *Courses:* Artificial Intelligence, Machine Learning, Deep Learning, Computer Vision, Robotics, Computer Graphics, Multi-Agent Systems, Statistical Methods

University of Surrey, Computer Science — UK, 2019 – 2023
- *Thesis:* RoboKinesis
  - Controlling Robotic Arm with Computer Vision
- *Courses:* Programming, Algorithms, Software and Web Engineering, Artificial Intelligence, Deep Learning, Natural Language Processing

Experience

Computational Imaging and Vision Laboratory, National Institute of Informatics, Research Exchange Student — Japan, 2025 – 2026, 1 year
Temporal Motion Magnification
- Supervisor: Dr. Imari Sato

Ericsson Research, Master's Thesis Student — Sweden, 2025 – 2025, 1 year
Towards Adaptive Reinforcement Learning for Network-Aware Robotics via Quantization Techniques
- Supervisor: Dr. Christos N. Mavridis

Visualization Course, KTH Royal Institute of Technology, Teachning Assistant (Visualization course) — Sweden, 2024 – 2024, 1 year

Centre for Vision, Speech and Signal Processing, University of Surrey, Summer Research Internship Student — UK, 2023 – 2023, 1 year
- Supervisor: Dr. Oscar Mendez Maldonado

Hawk-Eye Innovations, Machine Learning Engineer (Placement) — UK, 2022 – 2023, 1 year

Publications

Genetically Modified Wolf Optimization with Stochastic Gradient Descent for Optimising Deep Neural Networks
Novel optimization approach combining metaheuristic algorithms and SGD to balance exploration and exploitation for training Deep Neural Networks.
Manuel Bradicic, Michal Sitarz, Felix Sylvest Olesen
arxiv.org/abs/2301.08950

Skills

Programming Languages

ML/AI Frameworks

Tools & Infrastructure

3D/Simulation

Languages

Polish
Native speaker

English
Fluent

Serbo-Croatian
Fluent