

RAUL STELEAC

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EDUCATION

University of Edinburgh

PhD in Robotics and Autonomous Systems

Edinburgh, United Kingdom

Sept. 2023 – Present

- Supervisor: Mohan Sridharan
- Key Areas: Multi-agent Systems, Reinforcement Learning, Ad-hoc Teamwork, Generalisation, Hierarchical models, Warehouse Optimization

Imperial College London

MSc in Computing (Artificial Intelligence and Machine Learning)

London, United Kingdom

Oct. 2020 – Oct. 2021

- Relevant studied modules: Reinforcement Learning, Deep Learning, Probabilistic Inference, Computer Vision, Machine Learning for Imaging, Natural Language Processing.
- Overall degree classification: **Distinction**

Polytechnic University Timisoara

BEng in Computers and Information Technology

Timisoara, Romania

Sept. 2016 – July 2020

- Graduated with a 10.0/10.0 thesis final grade and 9.20/10.0 module average grade.
- Received merit scholarships in 7 out of the 8 semesters.

“Grigore Moisil” Theoretical High School

Timisoara, Romania

Sept. 2012 – June 2016

- Obtained 9.85/10.0 (Mathematics), 9.70/10.0 (Computer Science) in the Bacalaureate exam, with the average final mark of: 9.48/10.0.
- Received merit scholarships in two out of the four years of study.

PROFESSIONAL EXPERIENCE

Machine Learning Scientist

SenseStreet

Jan. 2021 – Aug. 2023

London, United Kingdom

- Developed transformer-based architectures for a Natural-language pipeline that extracts valuable financial information from chats between investment banking officials and clients aiming to assist traders in their daily transactions leading to more efficient and precise deals.

Machine Learning Engineer

Healx

Nov. 2021 – Jan. 2023

Cambridge, United Kingdom

- Designed and implemented a Contextual Entity Linking transformer-based architecture that successfully disambiguates and maps in-sentence entities to internal biomedical ontologies.
- Constructed a noise-aware training method that uses ensemble models to build loss-masks for Named Entity Recognition training, increasing the F1 score of the production model by 7.5%.
- Managed a data curation project that built high-quality evaluation data sets for the production pipeline, collaborating closely with scientific curators and data engineers.

Software Development Intern

Intel Software Development

Dec. 2018 – Aug. 2020

Timisoara, Romania

- Contributed to the development of two versions of the Intel Movidius Visual Processing Unit chip, used to accelerate computations inside neural networks for real-time applications like drones and robots.
- Collaborated with other development teams to incorporate novel features in the final chip architecture.

Junior Software Developer

Nokia Networks

Oct. 2017 – Dec. 2018

Timisoara, Romania

- Investigated and solved software issues using Object-Oriented methodologies in C++, while working in the Fault detection and Alarm Raising department.
- Effective time management was required to solve software bugs with the shortest delay possible.

Volunteer

Timisoara Science Festival

Sept. 2018

Timisoara, Romania

- Presented a physics experiment named Hydrodynamic Levitation to a public from a variety of age groups and backgrounds during the international educational event..

PUBLICATIONS

Conferences and Journals

- **Raul D. Steleac**, Mohan Sridharan and David Abel; "Inter-Agent Relative Representations for Multi-Agent Option Discovery", in **ICLR 2026**.
- A. Krnjaic, **Raul D. Steleac**, J. D. Thomas, G. Papoudakis, L. Schäfer, A. W. Keung To, K. Lao, M. Cubuktepe, M. Haley, P. Börsting and S. V. Albrecht; "Scalable Multi-Agent Reinforcement Learning for Warehouse Logistics with Robotic and Human Co-Workers", in **IROS 2024**.

Theses

- **Raul D. Steleac**, "Curriculum Reinforcement Learning: Re-visiting Tabular Methods", Master's Thesis, Imperial College London, 2021
- **Raul D. Steleac**, "End-to-end Speech Emotion Recognition", Bachelor's Thesis, Polytechnic University Timisoara, 2020

TECHNICAL SKILLS

Programming languages: Python, SQL, C++, C, Java, Makefile, Bash (Linux Shell Scripting), Prolog, Latex

Frameworks: Jax, PyTorch, HuggingFace, TensorFlow, Keras

Developer Tools: Git, AWS, Docker, CircleCI, Jira, Google Cloud Platform, BigQuery, Airflow

Libraries: NumPy, Pandas, PyDantic, pytest, MuJoCo, Matplotlib, Librosa