

MYRON SUKHANOV

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ABOUT ME

Passionate Research Engineer with experience in LLM post-training and evaluation, scientific ML, and distributed training on HPC

SKILLS

Programming Languages: Python, C++, Java, JavaScript

ML: PyTorch, Transformers, vLLM, Hugging Face, LLM fine-tuning, knowledge distillation, reinforcement learning, evaluation, statistics

Infrastructure: Slurm, HPC clusters, multi-GPU training, Docker, Linux, Git

EDUCATION

University of Sheffield

Sheffield, UK (Sep 2023 – Jun 2026)

- BSc Computer Science (Artificial Intelligence), **First Class Honours**, full scholarship
- Dissertation: *Enhancing Reasoning in Language Models via Verified Algorithmic Chain-of-Thought Distillation*
- Supervisor: Prof. Nikos Aletras

Taras Shevchenko National University of Kyiv

Kyiv, Ukraine (Sep 2020 – May 2022)

- BSc Physics (discontinued), grade 93%

RESEARCH & PROJECTS

Benchmark Gains Without Reasoning Gains: Filtering, Labelling and Weighting Verified Traces for Distillation [↗](#)

- First-author paper in preparation. Collected 13.6k chain-of-thought traces from Kimi-Dev-72B on 4 NP-hard families and distilled the traces into Qwen3-8B on H100 GPUs with three recipes: gate, grade, and weight
- Found that on GSM8K the improvements over the base come from an increased answer emission rate: for the strict gate, the +8pp splits into +15pp from answering more and −7pp from accuracy

Molecule-Agnostic ML Nanocavity Separator [↗](#)

Manuscript in preparation (2026)

- Co-designed, built, and trained a molecule-agnostic ML system for single-molecule SERS spectroscopy data, achieving AUROC 0.97 on human-labelled scans of an unseen molecule
- Achieved +5 dB PSNR compared to the previous-best model within the Physics for Sustainable Chemistry and NanoPhotonics groups

LLMxLaw Hackathon

King's College, University of Cambridge (Jun 2024)

- Developed a solution proposed by Google Cloud: Retrieval Augmented Generation (RAG) based LLM solution to help lawyers find critical points within contract negotiation using Vertex AI API and Streamlit

EXPERIENCE

University of Cambridge

Visiting Researcher, Applied ML (part-time)

Cambridge, UK (Sep 2023 – Present)

- Co-designed and built a molecule-agnostic ML system for SERS spectroscopy data
- Co-developed [🐙 Scanalyser](#) — a library and scripts for ML model training and inference on an HPC cluster

Research Intern, Applied ML

Cambridge, UK (Jun 2023 – Sep 2023)

- Reduced the model's training and inference time by at least 10x via hyperparameter tuning and changing the architecture without performance loss
- Implemented distributed training on the GPU cluster via a custom training loop leveraging computational-graph optimisations

The Innovation Game

Computational Scientist (part-time)

Cambridge, UK (Aug 2024 – Jun 2025)

- Researched reinforcement learning (RL) on chain-of-thought (CoT) for self-improving reasoning agents
- Conducted theoretical AI research for the Neural Network Gradient Descent challenge, which rewards researchers for breakthrough optimisers. See the **technical paper**

Extreme Light Infrastructure, ELI Beamlines

Research Intern, Data Analysis

Prague, Czech Republic (Jul 2022 – Aug 2022)

- Ran HPC simulations and Fourier analysis of coherent radiation spectra. More on [🐙 GitHub](#)
- Contributed data to the **Physical Review Research paper** on relativistic interactions

SELECTED AWARDS

- Ukrainian Physics Olympiad: 17th (2017) and 35th (2018) nationwide; 1st in Kherson city stage, 4 consecutive years (2016–2019)
- Ukrainian Programming Olympiad: 2nd diploma, city stage (Oct 2018); 3rd diploma, regional stage (Feb 2018)