

PETER NUTTER

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EDUCATION

ETH Zürich

MSc Computer Science

2024–2026 (expected)

Zürich, Switzerland

Selected coursework: Advanced Systems Lab; NLP; Large Language Models; Probabilistic AI; Machine Perception.

Czech Technical University in Prague (CTU)

BSc Mathematical Informatics

2020–2024

Prague, Czech Republic

4× Semester Scholarship for excellent grades.

Exchanges: **TUM**, **EPFL** (mathematics); **Télécom Paris** (image processing).

EXPERIENCE

MATS 10.0

Incoming Scholar, Technical Track

Jun–Aug 2026

Berkeley, CA

Accepted to Summer 2026 cohort for full-time research in AI safety and alignment.

ERA Fellowship

Technical Track

Feb–May 2026

Cambridge, UK

Conducted independent empirical AI safety research on reward hacking in code models under Prof. Shi Feng (GWU).

Studied contamination, probe-based detection, steering, and cross-environment transfer in GRPO-trained models.

ETH Zürich

Teaching Assistant, Building ML/AI Applications; Stochastics & ML

2025

Zürich, Switzerland

Led weekly sessions for about 30 students; authored materials and supported labs covering probability, statistics, linear models, and modern ML (scikit-learn, PyTorch).

Mild Blue

Full-Stack Developer (part-time)

2022–2023

Prague, Czech Republic

Contributed to TX Matching (kidney donor-recipient pairing), including the pairing algorithm and data pipelines; collaboration with clinicians.

PUBLICATIONS

ICML 2026 Spotlight

Position: Anthropomorphic Misalignment Research Needs Stronger Evidence

2026

Main author

Position paper on evidential standards for anthropomorphic misalignment research, developed from my ETH semester project with LAS Group / SPY Lab collaborators.

SELECTED PROJECTS

Advanced Systems Lab

Prime Implicant Generation Speedup

C; SIMD (AVX2); cache optimization; roofline analysis

2025

Built a cache-aware AVX2 C implementation of Quine–McCluskey prime implicant generation. [PDF](#) [GitHub](#)

Machine Learning in Genomics

Polyadenylation Site Prediction in 3' UTRs

DNA LMs, LoRA, TF-MoDISco

2024

Fine-tuned DNABERT/SpeciesLM with LoRA for polyadenylation prediction in 3' UTRs, improving Pearson r/AUROC and validating motifs with TF-MoDISco. [PDF](#) [GitHub](#)

Bachelor Thesis

Predicting Kidney Transplant Survival

Survival Analysis, DeepSurv, CoxPH, RSF

2023

Trained and evaluated CoxPH, RSF, and DeepSurv on UNOS and IKEM cohorts for kidney graft survival; proposed a data-driven allocation score. [PDF](#) [GitHub](#)

Homepage2Vec (EPFL DLAB)

Multilingual Website Classification

LLM-annotated datasets, fine-tuning

2023

Created 10k multilingual LLM-annotated dataset and fine-tuned Homepage2Vec classifier. [DOI](#) [GitHub](#)

SKILLS

Programming Python; C/C++; Java; C#; TypeScript/React; R

ML/AI PyTorch; RL training (VERL); NLP/LLMs; linear probes; probabilistic modeling

Systems/Infra SIMD (AVX2); cache-aware optimization; SQL/PostgreSQL; Docker; AWS; Git

Math Probability; statistics; stochastic processes; optimization; numerical analysis; information theory

LANGUAGES

Czech (native) • Slovak (native) • English C2 (CAE 204/210) • Spanish B2 • German B1