

Meghdad Kurmanji

Cambridge, UK – Global Talent Visa Holder

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Professional Summary

Researcher in machine learning and data systems with 8+ years of experience developing scalable algorithms and collaborating with industry partners (Google DeepMind, Huawei). Expertise in decentralized (LLM) pretraining, machine unlearning, continual learning, and large-scale data pipelines; proven record of top-tier publications, competitive funding acquisition (€530k), and cross-functional leadership.

Experience

University of Cambridge

Cambridge, UK

Postdoctoral Research Associate

2024–Present

- Delivered three research projects within first six months, meeting all milestones.
- Led proposal writing for the SPRIN-D competition, securing €530k funding as technical lead.
- Increased team paper acceptance and on-time submission rates by 20%.
- Publishing in top venues including NeurIPS and ICLR.
- Advancing research on decentralized LLM pretraining and machine unlearning.

University of Warwick

Coventry, UK

Graduate Research Assistant

2020–2024

- (Co-)authored 7 papers in NeurIPS, SIGMOD, and CIDR.
- Designed a continual-learning framework that outperformed SOTA $> 10\times$ in throughput.
- Developed an unlearning algorithm beating SOTA by 10% across benchmarks.
- Secured £150k Huawei grant for machine-learning-based indexing research.
- Initiated collaboration between Warwick ML-for-Systems Lab and Google DeepMind.

Iran Telecommunication Research Center (ITRC)

Tehran, Iran

Data Engineer

2019–2020

- Built an end-to-end data pipeline (crawl → Hadoop → OLAP) reducing data onboarding time $5\times$.
- Implemented ETL workflows enabling a $5\times$ query speed-up for BI reporting.
- Integrated Elasticsearch with PowerBI, cutting weekly report delays by 60%.

Refah Retail Chain Stores Co.

Tehran, Iran

Machine Learning Engineer

2017–2019

- Developed a real-time (< 100 ms) vision-based customer counter (81% accuracy) deployed across 20 stores.
- Created an in-store heat-map generator to identify crowded zones, informing staffing decisions.
- Engineered a product recommendation model (LSTM-CNN) boosting active customer engagement by 15%.
- Delivered customer behaviour analysis with regression on time-series data, achieving 60% return-prediction accuracy.

Sensifai

Belgium, remote

Deep Learning Engineer

2016–2017

- Increased acoustic scene-detection accuracy by 9% using multimodal transfer learning.
- Built an 88%-accurate music-mood classifier via spectrogram feature engineering.
- Optimised distributed video-crawling pipeline, achieving $1.8\times$ throughput.

Education

University of Warwick

Coventry, UK

Ph.D. in Computer Science

2020–2024

Thesis: *Adaptability of Machine Learning Based Data Systems*

- Conducted the first comprehensive empirical analysis of SOTA machine unlearning for learned data systems (SIGMOD '24).
- Collaborated with Google DeepMind & Google Research to launch the first NeurIPS unlearning challenge (2023).
- Developed **SCRUB**, a SOTA unlearning algorithm for large-scale deep models (NeurIPS '23).
- Created **DDUp**, a continual-learning framework that improves adaptability of learned data systems $10\times$ (SIGMOD '23).

Tarbiat Modares University

M.Sc. in Computer Science, GPA: 3.67/4

Dissertation: Hand Gesture Recognition Using Deep Learning Models

- Proposed a 2D-CNN video HGR model outperforming 3D-CNN baselines in accuracy and efficiency.

Tehran, Iran

2014–2017

Isfahan University of Technology

B.Sc. in Computer Engineering, GPA: 3.15/4

Capstone: Simulated CDMA signal modulation using Verilog for FPGA implementation.

Isfahan, Iran

2010–2014

Selected Publications

ICLR 2025: DEPT: Decoupled Embeddings for Pre-training Language Models (top 1%).

NeurIPS 2024: What Makes Unlearning Hard and What to Do About It.

SIGMOD 2024: Machine Unlearning in Learned Database Systems.

NeurIPS 2023: Towards Unbounded Machine Unlearning.

SIGMOD 2023: Detect, Distill and Update: Learned DB Systems Facing OOD Data.

Full list: <https://scholar.google.com/citations?user=7t9HbecAAAAJ>

Skills

Machine Learning: Supervised, Semi-/Unsupervised, Generative Models, Language Models, Machine Unlearning.

Programming: Python, C++.

Frameworks: PyTorch, TensorFlow, Hugging Face, Ray, LangChain, Weights & Biases.

Data Systems: Relational & NoSQL DBs, SQL, Hadoop, HBase, Hive, ElasticSearch.

Statistics: Statistical Inference, Probabilistic Graphical Models.

Honors & Awards

2025: SIGMOD Jim Gray Doctoral Dissertation Honorable Mention.

2024–2025: Secured €530k SPRIN-D grant as co-lead of *CambridgeFlower*.

2023: Organizer, NeurIPS Machine Unlearning Workshop.

2021: Best Presentation Award, WPCCS, University of Warwick.

2020–24: Computer Science Graduate Scholarship (£25k p.a.), University of Warwick.

2020–24: Research Grant (£15k p.a.), Huawei Dublin.

2010: Top 0.01% in Iranian national entrance exam (300k applicants).

References

Available upon request.

Prof. Nic Lane, University of Cambridge

Prof. Peter Triantafillou, University of Warwick

Dr. Eleni Triantafillou, Google DeepMind