

Akbir Khan

[akbir.dev](#)

Education

2021-2024	Ph.D. in Computer Science, University College London Advised by Ed Grefenstette & Tim Rocktäschel
2017-2018	MPhil in Advanced Computer Science, <i>with distinction</i> , University of Cambridge
2013-2017	MSci in Mathematics with Physics, <i>with 1st class honours</i> , University College London
2015-2016	Exchange student, <i>as Mathematics Specialist</i> , University of Toronto

Experience

2023-	Research Analyst at Cooperative AI Foundation , grant-making and field-building to mitigate risks posed by multi-polar AI outcomes
2021-2023	Senior Applied Researcher at Tractable AI , built OCR pipeline which generates £8M ARR
2017-2020	CRO at Spherical Defence , built Seq2seq models for anomalous web traffic detection
2016	Four month internship at Deutsche Bank as a Software Engineer
2015	Research Intern at the Quantum Optics and Laser Group , Imperial College London

Selected Publications

2024	Debating with More Persuasive LLMs Leads to More Truthful Answers — A Khan , J Hughes, D Valentine, L Ruis, K Sachan, A Radhakrishnan, E Grefenstette, S Bowman, T Rocktäschel & E Perez. Oral [top 1.5%] at <i>International Conference on Machine Learning (ICML)</i>
2024	Scaling Opponent Shaping to High Dimensional Games — A Khan , T Willi, N Kwan, A Tachetti, C Lu, T Rocktäschel, E Grefenstette & J Foerstor. Oral at <i>The Autonomous Agents and Multi-Agent Systems (AAMAS)</i>
2023	The Goldilocks of Pragmatic Understanding: Fine-Tuning Strategy Matters for Implication Resolution by LLMs — L Ruis, A Khan , S Biderman, S Hooker, T Rocktäschel, & E Grefenstette. Spotlight [top 3%] at <i>The Neural Information Processing Systems (NeurIPS)</i>
2023	MAESTRO: Open-Ended Environment Design for Multi-Agent Reinforcement Learning — M Samvelyan, A Khan , M Dennis, M Jiang, J Parker-Holder, JN Foerster, R Raileanu, T Rocktäschel. Accepted at <i>International Conference on Learning Representations (ICLR)</i>

Awards

2024	SuperAlignment Fellowship, OpenAI
2023	Astra Fellowship, Redwood Research
2020	Foundational Artificial Intelligence Scholarship, ESPRC

Technical Projects

[Deep Equilibrium Models](#), a Haiku implementation of the NeurIPS 2019 paper, an implicit-depth differentiable architecture that simulates an infinitely deep network
[Bad Flamingo](#), gamified collection of adversarial training examples; awarded 1st place at Hack Cambridge Ternary
Skills: Python [PyTorch, JAX ([contributor](#)), Pandas, Scikit-learn], Docker, GoLang