

# LISA ALAZRAKI

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PhD student in the NLP Group at Imperial College London. Research interests: generalisable learning and reasoning, agents, robustness.

## EDUCATION

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|--|-----------------------------|------|
| <b>Imperial College London</b> , <i>PhD Computing</i>                                  | Supervisor: Marek Rei       | 2027 |
| <b>Imperial College London</b> , <i>MSc Computing (AI and Machine Learning)</i>        | Classification: Distinction | 2021 |
| <b>The Open University</b> , <i>Grad. Cert. Theoretical Statistics and Probability</i> | Classification: Distinction | 2020 |
| <b>The Open University</b> , <i>BSc (Hons) Computing &amp; IT and Mathematics</i>      | Classification: 1st Class   | 2019 |

Scholarships and awards: IX-WAI Early Career Development Grant 2025 • Imperial Computing Conference 2024 Poster Competition First Prize  
IET Research Awards 2024 – Postgraduate Prize • Turing Institute Placement Award 2024/25 • Sir Richard Stapley Trust Annual Grant 2024  
Imperial College Trust Grant 2023 • IET Travel Award 2023 • Sir Richard Stapley Trust Annual Grant 2023 • CogMI 2022 Best Student Paper  
EPSRC Doctoral Scholarship 2022 • Imperial College London Distinguished MSc Dissertation Award 2021 • DeepMind MSc Scholarship 2020/21  
Open University Official Commendation from the Faculty of Maths, Computing and Technology 2017 • Leslie Walshaw Award 2016 in Mathematics

## EXPERIENCE

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|---|----------------|
| <b>Meta</b> , <i>Research Scientist Intern</i> • London, UK   | Jun - Dec 2025 |
| <ul style="list-style-type: none"><li>Manager: Akhil Mathur. Team: Llama Agents.</li></ul>  |                |
| <b>Cohere</b> , <i>Research Intern</i> • London, UK   | Jun - Dec 2024 |
| <ul style="list-style-type: none"><li>Manager: Max Bartolo. Team: Command Post-training.</li><li>Developed a reinforcement learning pipeline for reverse engineering human preferences that boosts LLM-as-a-judge evaluation.</li><li>Investigated implicit learning from mistakes, showing LLMs attain higher accuracy when not shown explicit corrective feedback.</li><li>Completed two distinct research projects at the same time, resulting in first-author papers at NeurIPS and EMNLP respectively.</li></ul> |                |
| <b>Google</b> , <i>Research Intern</i> • Amsterdam, Netherlands   | Jun - Sep 2023 |
| <ul style="list-style-type: none"><li>Manager: Thomas Mensink. Team: Perception.</li><li>Developed a model-ensembling framework for knowledge-intensive VQA that beats SOTA by 5% on Encyclopedic-VQA.</li><li>Presented the resulting publication at ICBINB at NeurIPS 2023.</li></ul>   |                |
| <b>Google</b> , <i>Student Researcher</i> • London, UK  | Oct - Dec 2022 |
| <i>Research Intern</i> • Zurich, Switzerland  | Jun - Sep 2022 |
| <ul style="list-style-type: none"><li>Manager: Hamza Harkous. Team: Applied Privacy Research.</li><li>Developed a new pipeline for retrieval-augmented generation of user issues that was deployed to production.</li><li>Improved recall of existing issues by 10x over the previous model, with comparable semantic accuracy for new issue generation.</li><li>Granted a global patent as co-inventor of the overall system for navigating user feedback.</li></ul>   |                |

## SELECTED PAPERS

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| <b>AgentCoMa: A Compositional Benchmark Mixing Commonsense and Math Reasoning in Real-World Scenarios</b> , <i>In review</i> | 2025 |
| <a href="#">Lisa Alazraki</a> , Lihu Chen, Ana Brassard, Joe Stacey, Hossein A. Rahmani, Marek Rei                           |      |
| <b>Efficient Data Mixing for Language Model Pre-Training</b> , <i>In review</i>  | 2025 |
| Kevin Zhou, <a href="#">Lisa Alazraki</a> , Kris Cao, Marek Rei  |      |
| <b>Improving the OOD Performance of Closed-Source LLMs Through Strategic Data Selection</b> , <i>In review</i>               | 2025 |
| Joe Stacey, <a href="#">Lisa Alazraki</a> , Aran Ubhi, Beyza Ermis, Aaron Mueller, Marek Rei                                 |      |
| <b>Reverse Engineering Human Preferences with Reinforcement Learning</b> , <i>NeurIPS 2025 (Spotlight)</i>                   | 2025 |
| <a href="#">Lisa Alazraki</a> , Yi Chern Tan, Jon Ander Campos, Maximilian Mozes, Marek Rei, Max Bartolo                     |      |
| <b>No Need for Explanations: LLMs Can Implicitly Learn from Mistakes In-context</b> , <i>EMNLP 2025 (Oral)</i>               | 2025 |
| <a href="#">Lisa Alazraki</a> , Maximilian Mozes, Jon Ander Campos, Yi Chern Tan, Marek Rei, Max Bartolo                     |      |
| <b>Enhancing LLM Robustness to Perturbed Instructions: An Empirical Study</b> , <i>ICLR 2025 BuildingTrust</i>               | 2025 |
| Aryan Agrawal*, <a href="#">Lisa Alazraki</a> *, Shahin Honarvar, Marek Rei (*Equal contribution)                            |      |
| <b>How can representation dimension dominate structurally pruned LLMs?</b> , <i>ICLR 2025 SLLM</i>                           | 2025 |
| Mingue Xu, <a href="#">Lisa Alazraki</a> , Danilo Mandic   |      |
| <b>Meta-reasoning Improves Tool Use in Large Language Models</b> , <i>NAACL 2025 Findings</i>                                | 2024 |
| <a href="#">Lisa Alazraki</a> , Marek Rei  |      |
| <b>How (not) to ensemble LVLMs for VQA</b> , <i>NeurIPS 2023 ICBINB</i>  | 2023 |
| <a href="#">Lisa Alazraki</a> , Lluís Castrejon, Mostafa Dehghani, Fantine Huot, Jasper Uijlings, Thomas Mensink             |      |

## SKILLS

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|-------------------------------|---|
| <b>Programming languages</b>  | Python, TypeScript, JavaScript, Java, Lua, MATLAB/Octave, Maxima, Solidity, Prolog, Unix/Bash, HTML, CSS      |
| <b>Libraries / frameworks</b> | PyTorch, TensorFlow, Keras, NumPy, Pandas, Scikit-learn, Transformers, NLTK, Jinja2, Matplotlib, React, Flask |