Marek Strong

PHD CANDIDATE · NLP · UNIVERSITY OF CAMBRIDGE

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Professional Experience

RESEARCH ROLES

2023	**Enrichment Scheme Research Placement**, The Alan Turing Institute, London, UK
2020–2022	**Applied Research Scientist**, Amazon, Amazon AGI / Alexa AI, Cambridge, UK
2019	**Research Intern**, Amazon, Alexa AI, Cambridge, UK
2017–2018	**Research Associate**, The University of Edinburgh, Edinburgh, UK
2015	**Undergraduate Research Assistant**, The University of Edinburgh, Edinburgh, UK

ENGINEERING ROLES

2018	**ML Engineer**, Leading Multinational Investment Bank (Name is confidential due to NDA)
2016	**Data Engineer Intern**, Mallzee, Edinburgh, UK

Education

University of Cambridge *Cambridge, UK*
PHD, COMPUTER SCIENCE *2022–Present*
- Natural Language and Information Processing Research Group
- Research Focus: LLM Reasoning for Complex Temporal Problems, Fact Verification, NLI

University of Cambridge *Cambridge, UK*
MPHIL, ADVANCED COMPUTER SCIENCE *2018–2019*
- Grade: Distinction
- Research Focus: Structured Prediction, Reinforcement Learning

The University of Edinburgh *Edinburgh, UK*
BSC HONS, AI AND COMPUTER SCIENCE *2013–2017*
- Grade: First Class, Ranked 1st in the cohort
- Research Focus: Machine Translation

Publications

1. **Marek Strong**, Rami Aly, and Andreas Vlachos. Zero-Shot Fact Verification via Natural Logic and Large Language Models. Accepted to EMNLP 2024

2. Rami Aly, **Marek Strong**, and Andreas Vlachos. QA-NatVer: Question Answering for Natural Logic-based Fact Verification. In Proceedings of the 2023 Conference on Empirical Methods in Natural Language Processing, pages 8376–8391, Singapore. Association for Computational Linguistics.

3. **Marek Strong**, Jonas Rohnke, Antonio Bonafonte, Mateusz Lajszczak, and Trevor Wood. Discrete Acoustic Space for an Efficient Sampling in Neural Text-To-Speech. In Proc. IberSPEECH 2022, pages 1–5, 2022. Nominated for the best paper award.

4. Marta Banón, Pinzhen Chen, ..., **(Strelec) Strong, Marek**, ..., Dion Wiggins, and Jaume Zaragoza. Paracrawl: Web-scale acquisition of parallel corpora. In Proceedings of the 58th Annual Meeting of the Association for Computational Linguistics, pages 4555–4567, 2020

Awards

2023	**PhD Enrichment Scheme - Placement Award**, The Alan Turing Institute
2017	**Joint BSc Artificial Intelligence and Computer Science Class Prize**, The University of Edinburgh
2017	**Edinburgh Award**, The University of Edinburgh
2016	**Skype Junction Hackathon Winner (1st)**, Microsoft
2016	**Samsung HackZurich Winner (1st)**, HackZurich
2016	**Facebook UK Hackathon Winner (2nd)**, Facebook
2014	**Smart Data Hack Winner (1st)**, The University of Edinburgh

Teaching

2024	**Supervisor: Artificial Intelligence**, University of Cambridge
2023–2024	**Demonstrator: Machine Learning and Real-world Data**, University of Cambridge
2017	**Peer mentoring**, The University of Edinburgh
2016	**Demonstrator: Introductory Applied Machine Learning**, The University of Edinburgh

Projects

2019	**Mastering the Game of Gomoku with Expert Knowledge**, University of Cambridge
2019	**Master's Thesis: Imitation Learning for Beam Search**, University of Cambridge
2017	**Bachelor's Thesis: Quantisation and Other Methods for Faster Decoding in NMT**, University of Edinburgh
2016	**RoboCup Soccer - Small Size League**, University of Edinburgh

Programming skills

Languages	**Python, C++, JavaScript, Bash**
Frameworks	**PyTorch, TensorFlow, Apache MXNet**