

METE (MAHAMMAD) ISMAYILZADA

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My interests broadly lie within the nature of robust artificial intelligence, language, creativity, and mind. Currently, my research focuses on understanding and improving the creative capabilities of machines.

Experience




Research

- 2023 – Present  **Research Assistant.** Idiap Research Institute. *Martigny, Switzerland.*
- Fall 2022  **Research Assistant.** AI Lab. EPFL. *Lausanne, Switzerland.*
- Summer 2022  **Research Intern.** Sony Inc. *Tokyo, Japan.*

Engineering

- 2019 – 2021  **Software/ML Engineer.** integrate AI. *Toronto, Canada.*
- 2017 – 2019  **Co-founder/CTO.** Destin AI. *Toronto, Canada.*
- 2017 – 2018  **Software Engineer.** Bluecat Networks. *Toronto, Canada.*
- 2016 – 2017  **Software Engineer.** Cisco Systems. *Ottawa, Canada.*
- Summer 2015  **Software Engineer Intern.** Freescale Semiconductors. *Ottawa, Canada.*
- Summer 2014  **Software Engineer Intern.** TD Bank Securities. *Toronto, Canada.*
- Summer 2013  **Software Developer Intern.** Azercell MMC. *Baku, Azerbaijan.*

Education

- 2023 – Present  **Ph.D. Computer Science.** EPFL, Switzerland.
Research on computational creativity.
- 2021 – 2023  **M.Sc. Data Science.** EPFL, Switzerland.
Thesis: *CRoW: Benchmarking Commonsense Reasoning in Real-World Tasks* (Published at EMNLP 2023).
- 2012 – 2016  **B.Sc. Computer Science, With Distinction.** University of Waterloo, Canada.

Research Publications

Preprint

- 1 **M. Ismayilzada**, D. Paul, A. Bosselut, and L. van der Plas, “Creativity in ai: progresses and challenges”, (2024).
- 2 **M. Ismayilzada**, D. Circi, J. Sălevă, H. Sirin, A. Köksal, B. Dhingra, A. Bosselut, L. van der Plas, and D. Ataman, “Evaluating morphological compositional generalization in large language models”, (2024).

Conference Proceedings

- 1 **M. Ismayilzada**, D. Paul, S. Montariol, M. Geva, and A. Bosselut, “CRoW: benchmarking commonsense reasoning in real-world tasks”, in Proceedings of the 2023 conference on empirical methods in natural language processing (Dec. 2023), pp. 9785–9821.
- 2 **M. Ismayilzada** and A. Bosselut, “Kogito: a commonsense knowledge inference toolkit”, in Proceedings of the 17th conference of the european chapter of the association for computational linguistics: system demonstrations (May 2023), pp. 96–104.

- 3 D. Paul, **M. Ismayilzada**, M. Peyrard, B. Borges, A. Bosselut, R. West, and B. Faltings, “REFINER: reasoning feedback on intermediate representations”, in Proceedings of the 18th conference of the european chapter of the association for computational linguistics (volume 1: long papers) (Mar. 2024), pp. 1100–1126.
- 4 S. Gao, **M. Ismayilzada**, M. Zhao, H. Wakaki, Y. Mitsufuji, and A. Bosselut, “DiffuCOMET: contextual commonsense knowledge diffusion”, in Proceedings of the 62nd annual meeting of the association for computational linguistics (volume 1: long papers) (Aug. 2024), pp. 4809–4831.
- 5 S. Cui, L. Milikic, Y. Feng, **M. Ismayilzada**, D. Paul, A. Bosselut, and B. Faltings, “Exploring defeasibility in causal reasoning”, in Findings of the association for computational linguistics acl 2024 (Aug. 2024), pp. 6433–6452.

Skills

Languages	English, French, Turkish, Russian, Azerbaijani
Coding	Python, Java, C, C++
Databases	MySQL, PostgreSQL, MongoDB
Web Dev	HTML, CSS, JavaScript, node.js, React.js
ML	pytorch, pandas, transformers, scikit-learn, seaborn
Misc.	git, linux, MLOps, DevOps, L ^A T _E X

Misc

Teaching

Spring 2023, 2024	Teaching Assistant. Modern NLP. EPFL.
Fall 2023	Teaching Assistant. Applied Data Analysis. EPFL.

Service

2024	Reviewer. ACL ARR, SEM, EACL Student Research Workshop.
	Volunteer. Perspectives on AI Symposiums, Idiap Research Institute.

Awards

2012-2016	Full State Scholarship , Full funding for undergraduate studies at the University of Waterloo, Government of Azerbaijan.
2012	Certificate of Distinction , Euclid Mathematics Contest, University of Waterloo.
2010	Presidential Scholarship , Awarded to top students entering university studies, Government of Azerbaijan.

Projects

2024	Parrot , Educational toolkit to interact with OpenAI models.
2022	kogito , A Python Commonsense Knowledge Inference Toolkit.