Badr ALKHAMISSI

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🎓 EDUCATION

École Polytechnique Fédérale de Lausanne, PhD

📅 Sep 2023 - Present 📍 Lausanne, Switzerland

› Part of the NLP and NeuroAI labs.

Goldsmiths, University of London, MASTER OF SCIENCE

📅 Sep 2019 - Sep 2020 📍 London, UK

› MSc. in Computational Cognitive Neuroscience.

The American University in Cairo, BACHELOR OF SCIENCE

📅 Sep 2014 - Jun 2018 📍 Cairo, Egypt

› BSc. in Computer Science - Summa Cum Laude. **GPA 4.0**
› President's Cup and Mohamed El Beleidy Academic Award for Class Valedictorian.
› Mohammed Bin Abdulkarim A. Allehedan Award for highest performing STEM student.

Manor House School, INTERNATIONAL GENERAL CERTIFICATE OF SECONDARY EDUCATION

📅 Sep 2011 - Jun 2014 📍 Cairo, Egypt

› Outstanding Cambridge Learner Award in AL Computing.

💼 EXPERIENCE

Meta AI, AI RESIDENT

📅 Nov 2021 - Nov 2022 📍 Seattle, US

› Worked with Mona Diab and Asli Celikyilmaz.
› Finished 5 first-author papers during my residency.

Sony AI, AI RESEARCH INTERN

📅 Oct 2020 - Oct 2021 📍 Tokyo, Japan (Remote)

› Worked with Michael Spranger, as well as Sam Ritter and Zeb Kurth-Nelson of DeepMind.
› Finished 3 first-author papers.

Microsoft, SOFTWARE ENGINEER, APPLIED SCIENTIST

📅 Apr 2019 - Sep 2019 📍 Cairo, Egypt

› Best Mentor Award
› Research in Cross-Lingual Model Transfer

Vkansee, MACHINE INTELLIGENCE RESEARCHER

📅 Jan 2018 - Mar 2019 📍 Cairo, Egypt

› Conduct research to improve SOTA algorithms in fingerprint matching, spoofing and quality analysis

The American University in Cairo, TEACHING ASSISTANT

📅 Fall 2015, 2017, Spring 2016 📍 Cairo, Egypt

› Undergraduate teaching assistant for Deep Learning and Programming Fundamentals courses.

📖 SELECTED FIRST-AUTHOR PUBLICATIONS

› INVESTIGATING CULTURAL ALIGNMENT OF LARGE LANGUAGE MODELS. **ACL 2024 (Main)**.
› DEPTH-WISE ATTENTION (DWATT): A LAYER FUSION METHOD FOR DATA-EFFICIENT CLASSIFICATION. **LREC-COLING 2024**. *Oral Presentation*.
› OPT-R: EXPLORING THE ROLE OF EXPLANATIONS IN FINETUNING AND PROMPTING FOR REASONING SKILLS OF LARGE LANGUAGE MODELS. **NL-Reasoning 2023 (ACL)**. *Poster Presentation*.
› HOW TO LEARN AND REPRESENT ABSTRACTIONS: AN INVESTIGATION USING SYMBOLIC ALCHEMY. **AutoML Late-Breaking Workshop 2022**. *Poster Presentation*.
› TOKEN: TASK DECOMPOSITION AND KNOWLEDGE INFUSION FOR FEW-SHOT HATE SPEECH DETECTION. **EMNLP 2022**. *Oral Presentation*.
› A REVIEW OF LANGUAGE MODELS AS KNOWLEDGE BASES. **Preprint**.
› THE EMERGENCE OF ABSTRACT AND EPISODIC NEURONS IN EPISODIC META-RL. **MemARI 2022 (NeurIPS)**. *Venue Spotlight, Oral Presentation*.
› EPIPHENOMENAL REPRESENTATIONS OF ABSTRACT RULES IN A CONNECTIONIST MODEL OF THE DELAYED MATCH TO SAMPLE TASK. **COSYNE 2022**. *Poster Presentation*.
› META AI AT ARABIC HATE SPEECH 2022: MULTITASK LEARNING WITH SELF-CORRECTION FOR HATE SPEECH CLASSIFICATION. **OSACT5 2022 (LREC)**. *Best Paper Award, Oral Presentation*.
› ADAPTING MARBERT FOR IMPROVED ARABIC DIALECT IDENTIFICATION: SUBMISSION TO THE NADI 2021 SHARED TASK. **WANLP 2021 (EACL)**. *Oral Presentation, SOTA*.
› DEEP DIACRITIZATION: EFFICIENT HIERARCHICAL RECURRENCE FOR IMPROVED ARABIC DIACRITIZATION. **WANLP 2020 (COLING)**. *Oral Presentation, SOTA*.

📑 SELECTED PEER REVIEW

› **Conferences**: ACL 2024. ArabicNLP 2024. NAACL 2024. EMNLP 2023, 2022. ACL 2023. AutoML 2022.
› **Workshops**: ICBINB 2022, 2021. ENLSP 2022. AutoML Workshop 2022. Meta-Learning 2021, 2020. Learning-to-Learn 2021.

🗣 SELECTED TALKS

› **AI Belmasry**. Guest Speaker.
› **Cohere For AI Community Talk**. Speaker.
› **TEDxMIU**. Speaker. Representation Matters: Celebrating Egyptians in the AI Revolution.
› **Mada Masr Podcast**. Guest Speaker.
› **NeurIPS 2021 Egypt Meetup**. Panelist.
› **Goldsmiths, University of London Career Event**. Speaker.
› **IndabaX Egypt 2019**. Speaker.

🎓 OTHER EDUCATION

Tsinghua University, DEEP LEARNING SUMMER SCHOOL

📅 July 2017 📍 Beijing, China

› Outstanding Performance Award in Summer School.

Stony Brook University, SEMESTER ABROAD

📅 Aug 2016 - Dec 2016 📍 New York, US

› Best Junior Award in ACM Regional Qualification Contest.
› Abdallah Jum'ah Study Abroad Scholarship.