

EHSAN KAMALLOO

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PROFESSIONAL EXPERIENCE

- JAN 2023 - *Now* **Post-doctoral Fellow**, David R. Cheriton School of Computer Science, University of Waterloo, Waterloo, Canada.
- MAR 2021 - DEC 2022 **Associate Researcher (part-time)**, Huawei Noah's Ark, Montreal, Canada.
- SEP 2020 - MAR 2021 **Research Intern**, Huawei Noah's Ark, Montreal, Canada.

EDUCATION

- 2016 - 2022 **Ph.D. Computing Science**, University of Alberta, Edmonton, Canada.
Thesis: "Robust Knowledge Acquisition in Answering Information-seeking Questions At Scale," Supervised by Davood Rafiei
GPA: 4.0/4.0
- 2008 - 2011 **M.Sc. Software Engineering**, Tarbiat Modares University, Tehran, Iran.
Thesis: "Credit Management Using Artificial Immune Systems"
- 2004 - 2008 **B.Sc. Software Engineering**, University of Tehran, Tehran, Iran.
Thesis: "A Morphology-based Stemmer for the Persian language"

SELECTED PUBLICATIONS

Preprints

- [1] **Ehsan Kamalloo**, Nandan Thakur, Carlos Lassance, Xueguang Ma, Jheng-Hong Yang, and Jimmy Lin (2023), "Resources for Brewing BEIR: Reproducible Reference Models and an Official Leaderboard."

Conference Proceedings and Journals

- [1] **Ehsan Kamalloo**, Nouha Dziri, Charles Clarke, and Davood Rafiei (2023), "Evaluating Open-Domain Question Answering in the Era of Large Language Models," in *ACL (oral)*.
- [2] **Ehsan Kamalloo**, Xinyu Zhang, Odunayo Ogundepo, Nandan Thakur, David Alfonso-Hermelo, Mehdi Rezagholizadeh, and Jimmy Lin (2023), "Evaluating Embedding APIs for Information Retrieval," in *ACL Industry Track*.
- [3] **Ehsan Kamalloo**, Charles Clarke, and Davood Rafiei (2023), "Limitations of Open-Domain Question Answering Benchmarks for Document-level Reasoning," in *SIGIR*.

- [4] Xinyu Zhang, Nandan Thakur, Odunayo Ogundepo, **Ehsan Kamaloo**, David Alfonso-Hermelo, Xiaoguang Li, Qun Liu, Mehdi Rezagholizadeh, and Jimmy Lin (2022), “Making a MIRACL: Multilingual Information Retrieval Across a Continuum of Languages,” in *TACL*.
- [5] Nouha Dziri, **Ehsan Kamaloo**, Sivan Milton, Osmar Zaiane, Mo Yu, Edoardo M. Ponti, and Siva Reddy (2022), “FAITHDIAL: A Faithful Benchmark for Information-Seeking Dialogue,” in *TACL*.
- [6] Mehdi Akbarian Rastaghi, **Ehsan Kamaloo**, and Davood Rafiei (2022), “Probing the Robustness of Pre-trained Language Models for Entity Matching,” in *CIKM*.
- [7] **Ehsan Kamaloo**, Mehdi Rezagholizadeh, and Ali Ghodsi (2022), “When Chosen Wisely, More Data Is What You Need: A Universal Sample-Efficient Strategy For Data Augmentation,” in *ACL Findings*.
- [8] Mostafa Yadegari, **Ehsan Kamaloo**, and Davood Rafiei (2022), “Detecting Frozen Phrases in Open-Domain Question Answering,” in *SIGIR*.
- [9] **Ehsan Kamaloo**, Mehdi Rezagholizadeh, Peyman Passban, and Ali Ghodsi (2021), “Not Far Away, Not So Close: Sample Efficient Nearest Neighbour Data Augmentation via MiniMax,” in *ACL Findings*.
- [10] Nouha Dziri, **Ehsan Kamaloo**, Kory W. Mathewson, and Osmar R. Zaiane (2019), “Evaluating Coherence in Dialogue Systems using Entailment,” in *NAACL*.
- [11] Nouha Dziri, **Ehsan Kamaloo**, Kory W. Mathewson, and Osmar R. Zaiane (2019), “Augmenting Neural Response Generation with Context-Aware Topical Attention,” in *ACL Workshop on NLP for Conversational AI (NLP4ConvAI)*.
- [12] **Ehsan Kamaloo** and Davood Rafiei (2018), “A coherent unsupervised model for toponym resolution,” in *World Wide Web (WWW) Conference*, pp. 1287-1296.
- [13] Abolfazl AleAhmad, **Ehsan Kamaloo**, Arash Zareh, Masoud Rahgozar, and Farhad Oroumchian (2008), “Cross language experiments at Persian@ CLEF 2008,” in *Cross Language Evaluation Forum (CLEF)*, pp. 105-112.

ACADEMIC SERVICE

Reviewing:

- **Conferences:** ACL Rolling Review, EMNLP 2023, CIKM 2023, ACL 2023, EACL 2023, EMNLP 2022, EMNLP 2021, ACL 2021, NAACL 2021, EACL 2021, EMNLP 2020, ACL 2020.
- **Workshops:** DialDoc Workshop at ACL 2023, Efficient Natural Language and Speech Processing at NeurIPS 2022 & 2021, SustaiNLP at EMNLP 2021, Student Research Workshop at NAACL 2021 and EACL 2021, SustaiNLP at EMNLP 2020, Student Research Workshop at ACL 2019, 2020, 2023.

Organizing:

- Multilingual Information Retrieval Across a Continuum of Languages (MIRACL), WSDM Cup 2023.

TEACHING EXPERIENCE

Student Advisor: *Master’s thesis:* Mostafa Yadegari and Mehdi Akbarian (University of Alberta). *Undergrad Interns:* Boris Fleysher and Peter Elliott (University of Alberta).

Mar 2022	Guest Lecturer for <i>Introduction to Computational Natural Language Processing</i> , McMaster University, Canada.
Nov 2021	Guest Lecturer for <i>Foundation Models in Natural Language Processing</i> , University of Tehran, Iran.
2018 - 2019	Teaching Assistant for <i>Database Management Systems</i> .
2016 - 2018	Teaching Assistant for <i>Introduction to File and Database Management</i> .

INDUSTRIAL EXPERIENCE

2016	Director of Research and Development at ODDRUN startup, Tehran, Iran
2013	Led technical strategy, and managed R&D team, Developed a recommender system in a location-based social network with ~200K users,
2013	Software Architect and Senior Software Engineer at FANAP, Tehran, Iran
2010	Led a 4-person technical team in the insurance solution division,
2010	Full-Stack Software Engineer at FANAP, Tehran, Iran
2008	Developed property insurance, life insurance and accounting software, components of an enterprise integrated insurance solution, deployed at nation-wide scale.