Ehsan Kamalloo

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Education

2016 - *2022*	**Ph.D. Computing Science**, University of Alberta, Edmonton, Canada. Thesis: "Robust Knowledge Acquisition in Answering Information-seeking Questions" 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"

Research Experience

Sep *2022* Sep 2016	**Research Assistant**, University of Alberta, Edmonton, Canada. Explore information retrieval models suitable for NLP tasks.
Now Jan 2022	**Associate Researcher (part-time)**, Huawei Noah's Ark, Montreal, Canada. Work on sample efficiency in NLP and multilingual retrieval.
Mar 2021 Sep 2020	**Research Intern**, Huawei Noah's Ark, Montreal, Canada. Worked on sample efficiency and data augmentation in NLP.

Publications

Preprints

[1] **Ehsan Kamalloo**, Charles Clarke, and Davood Rafiei (2022), "Document-level Reasoning: A Hidden Challenge in Open-domain Question Answering Benchmarks."

[2] Nouha Dziri, **Ehsan Kamalloo**, Sivan Milton, Osmar Zaiane, Mo Yu, Edoardo M. Ponti, and Siva Reddy (2022), "FaithDial: A Faithful Benchmark for Information-Seeking Dialogue."

Conference Proceedings and Journals

[1] Mehdi Akbarian Rastaghi, **Ehsan Kamalloo**, and Davood Rafiei (2022), "Probing the Robustness of Pre-trained Language Models for Entity Matching.", in *CIKM*.

[2] **Ehsan Kamalloo**, 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*.

[3] Mostafa Yadegari, **Ehsan Kamalloo**, and Davood Rafiei (2022), "Detecting Frozen Phrases in Open-Domain Question Answering," in *SIGIR*.

[4] **Ehsan Kamalloo**, 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*.

[5] Nouha Dziri, **Ehsan Kamalloo**, Kory W. Mathewson, and Osmar R. Zaiane (2019), "Evaluating Coherence in Dialogue Systems using Entailment," in *NAACL*.

[6] Nouha Dziri, **Ehsan Kamalloo**, 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)*.

[7] **Ehsan Kamalloo** and Davood Rafiei (2018), "A coherent unsupervised model for toponym resolution," in *World Wide Web (WWW) Conference*, pp. 1287-1296.

[8] **Ehsan Kamalloo** and Mohammad Saniee Abadeh (2014), "Credit risk prediction using fuzzy immune learning," in *Advances in Fuzzy Systems*, 2014: 7.

[9] **Ehsan Kamalloo** and Mohammad Saniee Abadeh (2010), "An artificial immune system for extracting fuzzy rules in credit scoring," in *IEEE Congress on Evolutionary Computation (CEC)*, pp. 1-8.

[10] Abolfazl AleAhmad, **Ehsan Kamalloo**, 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 2022, EMNLP 2021, ACL 2021, NAACL 2021, EACL 2021, EMNLP 2020, ACL 2020.

- **Workshops**: 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.

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

Professional Experience

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

Technical Skills

Programming Language:	Python, Java, Scala, C/C++, Lua
ML Framework:	PyTorch, TensorFlow
Database:	Oracle, MySQL, PostgreSQL, SQLite
Framework:	Spark, Hadoop, Elasticsearch, Lucene, Redis, Kafka