Mohammad Aliannejadi

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Education

2019-present **Post-doctoral Researcher**, *University of Amsterdam*, Amsterdam, The Netherlands.

2015-2019 **Doctor of Philosophy**, *Università della Svizzera italiana*, Lugano, Switzerland, Advisor: Fabio Crestani.
Project: Modeling User Information Needs on Mobile Devices – from Recommendation to Conversation

2018-2019 **Visiting Scholar**, *Center for Intelligent Information Retrieval (CIIR), University of Massachusetts*, Amherst, MA, USA, Advisor: W. Bruce Croft.
Project: Asking Clarifying Questions in Conversational Search Systems

2011-2014 **Master of Science**, *Amirkabir University of Technology (Tehran Polytechnic)*, Tehran, Iran.
Major: Computer Engineering, Minor: Artificial Intelligence

2006-2011 **Bachelor of Science**, *Hamedan University of Technology*, Hamedan, Iran.
Major: Computer Engineering, Minor: Hardware

Research Interests

Information Retrieval, Crowdsourcing, and Conversational Search

Natural Language Processing and Text Mining

Data Mining, Recommender Systems, and Machine Learning

Selected Publications

Conference Papers

2020 **Harnessing Evolution of Multi-Turn Conversations for Effective Answer Retrieval**, *M. Aliannejadi, M. Chakraborty, E. A. Rissola, and F. Crestani*, ACM SIGIR Conference on Human Information Interaction and Retrieval (**CHIIR**), 2020, Vancouver, Canada (to appear).

2020 **Beyond Modelling: Understanding Mental Disorders in Online Social Media**, *E. A. Rissola, M. Aliannejadi, F. Crestani*, European Conference on Information Retrieval (**ECIR**), 2020, Lisbon, Portugal (to appear).

2020 **Joint Geographical and Temporal Modeling based on Matrix Factorization for Point-of-Interest Recommendation**, *H. A. Rahmani, M. Aliannejadi, M. Baratchi, and F. Crestani*, European Conference on Information Retrieval (**ECIR**), 2020, Lisbon, Portugal (to appear).

2019 **Asking Clarifying Questions in Open-Domain Information-Seeking Conversations**, *M. Aliannejadi, H. Zamani, F. Crestani, and W. B. Croft*, International Conference on Research and Development in Information Retrieval (**SIGIR**), 2019, Paris, France (to appear).

2019 **Understanding Mobile Search Task Relevance and User Behaviour in Context**, *M. Aliannejadi, M. Harvey, L. Costa, M. Pointon, and F. Crestani*, ACM SIGIR Conference on Human Information Interaction and Retrieval (**CHIIR**), 2019, Glasgow, Scotland, UK (to appear).

2018 **In Situ and Context-Aware Target Apps Selection for Unified Mobile Search**, *M. Aliannejadi, H. Zamani, F. Crestani, and W. B. Croft*, International Conference on Information and Knowledge Management (**CIKM**), 2018, Turin, Italy, pages 1383-1392.

2018 **Target Apps Selection: Towards a Unified Search Framework for Mobile Devices**, *M. Aliannejadi, H. Zamani, F. Crestani, and W. B. Croft*, International Conference on Research and Development in Information Retrieval (**SIGIR**), 2018, Ann Arbor, Michigan, USA, pages 215-224.

2018 **A Collaborative Ranking Model with Multiple Location-based Similarities for Venue Suggestion**, *M. Aliannejadi, D. Rafailidis, and F. Crestani*, International Conference on the Theory of Information Retrieval (**ICTIR**), 2018, Tianjin, China, pages 19-26.

2017 **A Cross-Platform Collection for Contextual Suggestion**, *M. Aliannejadi, I. Mele, and F. Crestani*, International Conference on Research and Development in Information Retrieval (**SIGIR**) 2017, Tokyo, Japan, pages 1269-1272.

2017 **Venue Appropriateness Prediction for Personalized Context-Aware Venue Suggestion**, *M. Aliannejadi and F. Crestani*, International Conference on Research and Development in Information Retrieval (**SIGIR**), 2017, Tokyo, Japan, pages 1177-1180.

2017 **Personalized Keyword Boosting for Venue Suggestion based on Multiple LBSNs**, *M. Aliannejadi, D. Rafailidis, and F. Crestani*, European Conference on Information Retrieval (**ECIR**), 2017, Aberdeen, Scotland, pages 291-303.

Journal Articles

2019 **A Joint Two-Phase Time-Sensitive Regularized Collaborative Ranking Model for Point of Interest Recommendation**, *M. Aliannejadi, D. Rafailidis and F. Crestani*, IEEE Transactions on Knowledge and Data Engineering (**TKDE**), (to appear).

2018 **Personalized Context-Aware Point of Interest Recommendation**, *M. Aliannejadi and F. Crestani*, ACM Transactions on Information Systems (**TOIS**), 36(4), 45:1-45:28 (2018).

Honors and Awards

2016 Ranked **first** in the Contextual Suggestion Track, TREC 2016

2015 Ranked **first** in the Contextual Suggestion Track, TREC 2015

2016-present I have received 8 different research and travel grants.

Invited Talks

Seminars

2019 **Towards Unified Mobile Search**, *Invited Webinar*, University Of Zanjan, Zanjan, Iran.

2019 **Towards Unified Mobile Search**, *Invited Talk*, L3S Research Center, Leibniz University, Hannover, Germany.

2019 **Exploring Combination of Multimodal Relevance Scores for Contextual Suggestion**, *Invited Talk*, GESIS, Leibniz Institute for the Social Sciences Unter Sachsenhausen, Cologne, Germany.

2018 **Target Apps Selection for Unified Mobile Search**, *Invited Talk*, Tsinghua University, Beijing, China.

2018 **Personalized Context-Aware Venue Suggestion**, *Invited Talk*, University of Udine, Udine, Italy.

2017 **Personalized Keyword Boosting for POI Recommendation**, *Invited Talk*, Institut de Recherche en Informatique de Toulouse (IRIT), Toulouse, France.

Lectures

2019 **Context-awareness in Venue Recommendation**, *Invited Lecture*, Università della Svizzera italiana (USI), Lugano, Switzerland.

2018 **Crowdsourcing for Information Retrieval**, *Invited Lecture*, University of Massachusetts Amherst, Amherst, MA, USA.

2015 **Document Indexing and Retrieval Using Lucene**, *Invited Lecture*, Università della Svizzera italiana (USI), Lugano, Switzerland.

2015 **Introduction to Lucene**, *Invited Lecture*, Università della Svizzera italiana (USI), Lugano, Switzerland.

2010 **Introduction to Algorithms: Complexity**, *Invited Lecture*, Hamedan University of Technology, Hamedan, Iran.

2010 **Introduction to Formal Languages and Automata: Context-free Languages**, *Invited Lecture*, Hamedan University of Technology, Hamedan, Iran.

Academic Services

Peer Review

2018-present **Journal Reviewer**.
- ACM Transcations on Information Systems (TOIS)
- IEEE Transactions on Knowledge and Data Engineering (TKDE)
- Information Processing and Management (IP&M)
- Expert Systems with Applications (ESWA)

2018 **PC Member**.
- ECIR 2020
- TheWebConference (WWW) 2020
- SIGIR 2018

2015-present **External Reviewer**.
- JCDL 2019
- ECIR 2016, 2019
- ICTIR 2017, 2018
- ICADL 2017, 2018
- CIKM 2017
- KDD 2015

Organization

2018-2019 **Local Organizer**, *The 10th CLEF Conference and Labs of the Evaluation Forum*, Università della Svizzera italiana (USI), Lugano, Switzerland.

2017-present **ACM SIGIR Student Liaison**, *Representing Europe and Africa*.

2017 **Publicity Chair**, *The 8th Italian Information Retrieval Workshop (IIR)*, Università della Svizzera italiana (USI), Lugano, Switzerland.

2015 **Co-Organizer**, *DBTA Workshop on Life Logging and Long-Term Digital Preservation*, Università della Svizzera italiana (USI), Lugano, Switzerland.

Experience

Mentoring

2015-present **Thesis Co-supervision**, I co-supervised the thesis of three master students and one bachelor student. Most of the theses resulted in publications.

Teaching

2015-present **Teaching Assistant**, *Università della Svizzera italiana*, Lugano, Switzerland.
Teaching assistant for the following courses:
- Information Retrieval
- Databases
- User Experience Design
- Human-Computer Interaction Atelier

2010-2012 **Teaching Assistant**, *Hamedan University of Technology*, Hamedan, Iran.
Teaching assistant for the following courses:
- Advanced Programming: C++ Language
- Data Structures
- Introduction to Algorithms
- Introduction to Formal Languages and Automata

Professional

2014-2015 **.NET Developer**, *Batis Idea Processors Ltd.*, Tehran, Iran.
Developed C# .NET component for sending and receiving email and fax, which was a part of a big project.

2009-2012 **Software Designer and Developer**, *Hushmandsazan Bisim Gharb*, Hamedan, Iran.
Working with a team of Electrical Engineers, I did all the software design and development process to get a large Windows application integrated with the hardware designed for it.

Programming Skills

Tools

TensorFlow, Keras, NumPy, SciPy, Pandas, Seaborn, NLTK, Galago, RankLib, Terrier, Lucene, WEKA

Languages

Expert	Python, C, C++, C#
Intermediate	MATLAB, Java, PHP, MySQL, SQL Server
Basic	UML, HTML, Java, Javascript, Objective-C, Shell Script

References

Available upon request.