

Mohammad Aliannejadi

Via Buffi 13
6904 Lugano
✉ mohammad.alian.nejadi@usi.ch
🌐 <http://aliannejadi.com>

Education

- 2015-present **Doctor of Philosophy**, *Università della Svizzera italiana*, Lugano, Switzerland,
Advisor: Fabio Crestani.
Project: User Modeling for Mobile Information Access
- 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 and Recommender Systems
Natural Language Processing and Text Mining
Data Mining and Machine Learning

Publications

Conference Papers

- 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.
- 2017 **Personalized Ranking for Context-Aware Venue Suggestion**, *M. Aliannejadi, I. Mele, and F. Crestani*, ACM Symposium on Applied Computing (SAC), 2017, Marrakesh, Morocco, pages 960-962.
- 2016 **User Model Enrichment for Venue Recommendation**, *M. Aliannejadi, I. Mele and F. Crestani*, Asia Information Retrieval Societies Conference (AIRS), 2016, Beijing, China, pages 212-223.
- 2013 **Discriminative Spoken Language Understanding Using Statistical Machine Translation Alignment Methods**, *M. Aliannejadi, S. Khadivi, S. Shiry Ghidary, and M.H. Bokaei*, International Symposium on Artificial Intelligence and Signal Processing (AISP), 2013, Tehran, Iran, pages 194-202.

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).
- 2014 **Improved Churn Prediction In Telecommunication Industry Using Data Mining Techniques**, *A. Keramati, R. Jafari-Marandia, M. Aliannejadi, I. Ahmadian, M. Mozaffarian and U. Abbasi*, Elsevier Journal on Applied Soft Computing, 24, 994-1012 (2014).

Workshop Papers & Technical Reports

- 2018 **Venue Suggestion Using Social-Centric Scores**, *M. Aliannejadi and F. Crestani*, Workshop on Social Aspects in Personalization and Search (SoAPS) at ECIR'18, Grenoble, France.
- 2016 **Venue Appropriateness Prediction for Contextual Suggestion**, *M. Aliannejadi, I. Mele, F. Crestani*, Text REtrieval Conference (TREC), 2016, Gaithersburg, Maryland, USA.

- 2015 **University of Lugano at TREC 2015: Contextual Suggestion and Temporal Summarization Tracks**, *M. Aliannejadi, SA. Bahrainian, A. Giachanou, F. Crestani*, Text REtrieval Conference (TREC), 2015, Gaithersburg, Maryland, USA.
- 2014 **Graph-Based Semi-Supervised Conditional Random Fields For Spoken Language Understanding Using Unaligned Data**, *M. Aliannejadi, M. Kiaeeha, S. Khadivi and S. Shiry Ghidary*, Australasian Language Technology Workshop (ALTW), 2014, Melbourne, Australia, pages 98-103.

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

- 2018 **Crowdsourcing for Information Retrieval**, *Invited Lecture*, University of Massachusetts Amherst, Amherst, MA, USA.
- 2018 **Unified Mobile Search**, *Invited Talk*, Tsinghua University, Beijing, China.
- 2018 **Personalized Context-Aware Venue Suggestion**, *Invited Talk*, University of Udine, Udine, Italy.
- 2017 **Keyword Boosting for POI Recommendation**, *Invited Talk*, Institut de Recherche en Informatique de Toulouse (IRIT), Toulouse, France.

Academic Services

Peer Review

- 2018-present **Journal Reviewer**.
- ACM Transactions on Information Systems (TOIS)
 - IEEE Transactions on Knowledge and Data Engineering (TKDE)
 - Elsevier Information Processing and Management (IP&M)
- 2018 **PC Member**.
- 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.