

# Navid Rekabsaz

## Curriculum Vitae

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## Professional Experiences

- Since 2015 **Research Assistant**, *TU Wien*, Vienna Austria, full-time.  
Research on domain-specific professional search engines with focus on the use of statistical semantics by applying deep learning and neural network principles. The research addresses information processing applications in domains i.e. patent, health, Web, finance, and news.
- 2014 **Senior Software Engineer**, *AIM Software*, Vienna Austria, part-time.  
Participate in the develop of a web-based information management system to extract, process and report the financial instruments' messages.
- 2013 **Software Engineer**, *nativy GmbH*, Vienna Austria, part-time.  
Design system architecture and database, as well as development of a web-based portal for facilitating the search for remote expert translators and online ordering translation requests.
- 2003-2011 **Software Engineer & Project Manager**, *Mabna*, Tehran Iran, part- & full-time.  
(1) Project management and develop of a windows-based accounting system. (2) System architecture design and develop of a web-based ERP system - my contribution was on the CRM and accounting sub-systems. (3) Design and develop of a web-based e-commerce portal.

## Education

- 2015-(2017) **Doctoral programme in Computer Sciences**, *TU Wien*, PhD,  
Supervisors: Dr. Allan Hanbury & Dr. Mihai Lupu.
- 2012-2015 **Software Engineering And Internet Computing**, *TU Wien*, Master of Science,  
Thesis: On Using Statistical Semantic on Domain Specific Information Retrieval, supervised by Dr. Allan Hanbury & Dr. Mihai Lupu.
- 2004-2009 **Computer Engineering, Software**, *IUST*, Bachelor of Science,  
Thesis: Musical Note Detection of the Classical Persian Songs, Played by Taar, supervised by Dr. Naser Mozayani.

## Teaching

- 2017 **Statistical Semantics with Dense Vectors**, *3rd Keystone Summer School on Searching in Big Linked Data*.
- 2016 **Introduction to Information Retrieval**, *TU Wien*, Tutoring and lecturing.
- 2015 **Computer Programming**, *TU Wien*, welcomeTUcode for young refugees.

## Publications

- 2017 **Window-Context Word Embedding Causes Topic Shifting; Exploit Global Context!**, [Navid Rekabsaz](#), M. Lupu, A. Hanbury, H. Zamani, *Proc. of the ACM Conference on Research and Development in Information Retrieval (SIGIR 2017)*.
- Volatility Prediction using Financial Disclosures Sentiments with Word Embedding-based IR Models**, [Navid Rekabsaz](#), M. Lupu, A. Baklanov, A. Hanbury, A. Duer, L. Anderson, *Proc. of the Annual Meeting of the Association for Computational Linguistics (ACL 2017)*.
- Exploration of a Threshold for Similarity based on Uncertainty in Word Embedding**, [Navid Rekabsaz](#), Mihai Lupu, Allan Hanbury, *Proc. of European Conference on Information Retrieval Research (ECIR 2017)*.
- Toward Incorporation of Relevant Documents in word2vec**, [Navid Rekabsaz](#), Bhaskar Mitra, Mihai Lupu, Allan Hanbury, *Neu-IR Workshop at ACM Conference on Research and Development in Information Retrieval (SIGIR-NeuIR 2017)*.
- 2016 **Generalizing Translation Models in the Probabilistic Relevance Framework**, [Navid Rekabsaz](#), Mihai Lupu, Allan Hanbury, Guido Zuccon, *Proc. of ACM International Conference on Information and Knowledge Management (CIKM 2016)*.
- Toward Optimized Multimodal Concept Indexing**, [Navid Rekabsaz](#), Ralf Bierig, Mihai Lupu, Allan Hanbury, *Journal of Transactions on Computational Collective Intelligence (TCCI 2016)*.
- Standard Test Collection for English-Persian Cross-Lingual Word Sense Disambiguation**, [Navid Rekabsaz](#), S. Sabetghadam, M. Lupu, L. Andersson, A. Hanbury, *Proc. of the Language Resources and Evaluation Conf. (LREC 2016)*.
- Uncertainty in Neural Network Word Embedding: Exploration of Threshold for Similarity**, [Navid Rekabsaz](#), M. Lupu, A. Hanbury, *Neu-IR Workshop at ACM Conf. on Research and Development in Information Retrieval (SIGIR-NeuIR 2016)*.
- Enhancing Information Retrieval with Adapted Word Embedding**, [Navid Rekabsaz](#), *Proc. of the doctoral consortium of the ACM Conference on Research and Development in Information Retrieval (SIGIR-DC 2016)*.
- 2015 **Toward Optimized Multimodal Concept Indexing**, [Navid Rekabsaz](#), Ralf Bierig, Mihai Lupu, Allan Hanbury, *Proc. of the 1st KEYSTONE Conference (IKC 2015)*.
- On the Use of Statistical Semantics for Metadata-based Social Image Retrieval**, [Navid Rekabsaz](#), Ralf Bierig, Bogdan Ionescu, Allan Hanbury, Mihai Lupu, *Proc. of the 13th Workshop on Content-Based Multimedia Indexing (CBMI 2015)*.
- Open Government Data as a Service (GoDaaS): Big Data Platform for Mobile App Developers**, Soheil Qanbari, [Navid Rekabsaz](#), Schahram Dustdar, *Proc. of the IEEE Conference on Open and Big Data (IEEE OBD 2015)*.
- 2014 **A Real-World Framework for Translator as Expert Retrieval**, [Navid Rekabsaz](#), Mihai Lupu, *Proc. of Conference and Labs of the Evaluation Forum (CLEF 2014)*.

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## Working Reports

- 2017 **Exploring Understandability Features to Personalize Consumer Health Search TUW at CLEF 2017 eHealth**, João R. M. Palotti, [Navid Rekabsaz](#), *Proc. of Conference and Labs of the Evaluation Forum (CLEF 2017)*.
- 2015 **TUW @ Retrieving Diverse Social Images Task 2015**, João R. M. Palotti, Serwah Sabetghadam, [Navid Rekabsaz](#), Mihai Lupu, Allan Hanbury, *Proc. of the MediaEval 2015 Workshop*.
- 2014 **TUW @ Retrieving Diverse Social Images Task 2014**, João R. M. Palotti, [Navid Rekabsaz](#), Mihai Lupu, Allan Hanbury, *Proc. of MediaEval 2014 Workshop*.
- CEA LIST's Participation at the MediaEval 2014 Retrieving Diverse Social Images Task**, Alexandru Lucian Gînscă, Adrian Popescu, [Navid Rekabsaz](#), *Proc. of MediaEval 2014 Workshop*.
- TUW @ TREC Clinical Decision Support Track**, João R. M. Palotti, [Navid Rekabsaz](#), Linda Anderson, Allan Hanbury, *Proc. of TREC 2014*.

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## Research Visits

- 2017 **Short Term Scientific Mission (STSM)**, at the data analytics lab of the ETHZ.
- Summer 2016 **Young Scientists Summer Program (YSSP)**, at IIASA.
- 2015 **Lisbon Machine Learning School (LxMLS)**.
- 2015 **Russian Summer School in Information Retrieval (RuSSIR)**.

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## Scientific Projects

- Since 2016 **SelfOptimizer**, Search optimization for patent data, TU Wien.
- Since 2015 **ADmIRE**, Abstracting domain-specific IR and evaluation, TU Wien.
- Since 2016 **KConnect**, Search technologies for medical information, TU Wien.
- 2014-2015 **MUCKE**, Multimedia and user credibility knowledge extraction, TU Wien.

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## Main Software Development Skills

- Languages Python, Java, C#.NET, SQL, R
- ML Tensorflow, scikit-learn, WEKA
- Search Tech. Solr/Lucene, Terrier
- Distributed Hadoop, MongoDB, HBase, MapReduce
- Web Tech. ASP.NET, Spring, Javascript, JQuery, AngularJS, HTML, CSS
- SE Methods Agile Development, Scrum, MVC, MVVM, OOD, AOP

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## Awards & Certifications

- COST Action Grant for Short Term Scientific Mission (STSM) in ETHZ
- SIGIR Travel grant for attending SIGIR'17 conference
- TU Wien Erasmus+ grant for attending ESSIR'17 summer school
- SIGIR Travel grant for attending CIKM'16 conference

SIGIR Travel grant for attending SIGIR'16 conference  
ELIAS Travel grant for attending RuSSIR'15 summer school  
TU Wien Erasmus+ grant for attending LxMLS'15 summer school  
TU Wien Student grant for research on master thesis  
IBM DB2 9 Fundamentals certification

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## Languages

English proficient  
German proficient  
Persian native language  
Arabic knowledge

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## Volunteer

July 2015 **Teaching programming to young refugees**, welcomeTUcode program.  
March 2015 **Coordinator of Student Volunteers**, ECIR'15 conference.

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## Attitude and Interests

**Working attitude**, *believe in team work, open source, community collaboration, and creative thinking.*

**Personal interests**, *love classic, and oriental music and above them the nature as a source of inspiration. I enjoy doing daily meditation and sport.*