

Saeedeh Shekarpour

Curriculum Vitae

■■■■■ Contact Information

- *Web Entries:* [Homepage](#), [Linkedin](#), [Research Gate](#), [Google Scholar](#), [DBLP](#), [Twitter](#)

■■■■■ Short Biography

Saeedeh Shekarpour received her PhD with honors in Germany at the University of Bonn. There, she collaborated with the AKSW research group – a world-class leading group in Semantic Web – in Leipzig University and EIS research group in Bonn University. There, she initiated and led SINA, a Semantic Search Engine over Interlinked Data. She addressed a number of challenging research topics related to question understanding, interpreting, rewriting, expansion, formal query construction and evaluation on federated Linked Data. Saeedeh also spent one year as a postdoctoral researcher in the EIS research group at the Bonn University and is currently a postdoctoral researcher with Prof. Amit Sheth at the Kno.e.sis center. She has outstanding publication record in WWW, AAAI, IEEE WI, IEEE ICSC, ESWC, ISWC, Journal of Web Semantics, etc.

■■■■■ Area of Specialization

- Question Answering, Semantic Search, Information Retrieval.
- Semantic Web, Linked Open Data, Ontology Development.
- Information Extraction, Knowledge Graph Creation.
- Machine Learning, Statistical Methods (e.g. HMM)
- Natural Language Processing, Deep Learning (experiencing).

- Web Mining, Social Network Analysis.

Skills

- *Semantic Technology*: RDF, SPARQL, Ontology, Protege, Jena, OWL-API.
- *Learning Technology*: Weka, Clementine.
- *Retrieval Technology*: Lucene, Solr.
- *Natural Language Processing*: Stanford CoreNLP, WordNet.
- *Programming Languages*: JAVA, C#, C,C++, MATLAB.
- *Database Management*: Virtuoso, SQL-Server.
- *Experiences*: Latex, Linux, Office.

Honors

- 1998: Semifinalist of National Computer Olympiad, Iran.
- 2000: Ranked top 0.2% of the national entrance exam for Bachelor.
- 2005: Ranked top 3% of the national entrance exam for Master.
- 2011: PhD Grant from DAAD (German Academic Exchange Service).

Projects

- 2016: CEVO: Event Ontology - <http://eventontology.org>
- 2016: Hazard SEES: Social and Physical Sensing Enabled Decision Support
- 2016: Context-Aware Harassment Detection on Social Media
- 2015: WDAQUA: Question Answering on Web of Data
- 2010-2014: SINA: Semantic Interpretation of User Query for Question Answering on Linked Data

Work Experience

- 2016-present: Postdoctoral Researcher at the Knoesis Research Center¹, Ohio Center of Excellence in Knowledge-enabled Computing, Dayton, USA.

¹<http://knoesis.wright.edu/>

- 2015: Postdoctoral Researcher at EIS research group², Institute for Applied Computer Science at Bonn University, Bonn, Germany.
- 2009-2010: Freelance C# developer, Tehran, Iran.
- 2009: Software Developer and Designer, Data Processing Company, Tehran, Iran.
- 2006: Teaching at Azad University, Jahrom, Fars, Iran.

Academic Education

○ PhD in Computer Science from Bonn University.

- *Duration:* 9/2010 - 12/2014.
- *Supervisor:* [Prof. Dr. Sören Auer](#)
- *Places:*
 - EIS research group³, Institute for Applied Computer Science at Bonn University, Bonn, Germany.
 - AKSW research group⁴, Institute of Computer Science(InfAI), Leipzig University, Leipzig, Germany.
- *Thesis:*
 - *Title:* Semantic Interpretation of User Queries for Question Answering on Interlinked Data.
 - *Grade:* Magna Cum Laude
 - *Link:* <http://hss.ulb.uni-bonn.de/2015/3893/3893.htm>

○ M.Sc. in Computer Engineering(Software Engineering) from Shiraz University.

- *Duration:* 9/2005 - 9/2008.
- *Supervisor:* [Prof. Dr. S. D. Katebi](#).
- *Places:*
 - Department of Computer Science and Engineering, School of Engineering⁵, Shiraz University, Shiraz, Iran.

²<http://eis.iai.uni-bonn.de/About.html>

³<http://eis.iai.uni-bonn.de/About.html>

⁴<http://aksw.org/About.html>

⁵http://www.shirazu.ac.ir/en/index.php?page_id=314&menu_id=1&menu_item_id=1

- Department of Computer Science and Engineering⁶, Sharif University, Tehran, Iran.
- *Thesis:*
 - *Title:* Trust Modeling for Semantic Web.
 - *Grade:* Excellent (19.95 out of 20)
 - *Support:* This thesis was supported financially by Iran Telecommunication Research Center (IRTC).
 - *Link:* <http://dl.acm.org/citation.cfm?id=1746749>
- **B.Sc. in Computer Engineering(Software Engineering) from Shahid Beheshti University.**
 - *Duration:* 9/2000 - 9/2004.
 - *Place:* Department of Electronic and Computer Engineering⁷, Shahid Beheshti University, Tehran, Iran.

Selected Presentations and Talks

- QA Tutorial in Web Intelligence Summer School.
 - *Venue:* Saint-Etienne, France.
 - *Date:* September 2015.
- Presentation of SINA in IBM Research Center (Watson project-DeepQA).
 - *Venue:* New York, USA.
 - *Date:* December 2013.
- World Wide Web Conference(WWW 2013).
 - *Venue:* Rio de Janeiro, Brazil.
 - *Date:* May 2013.
- Joint International Semantic Technology Conference(JIST2012).
 - *Venue:* Nara, Japan.
 - *Date:* December 2012.
- International Semantic Web Conference(ISWC 2011)
 - *Venue:* Bonn, Germany.
 - *Date:* October 2011.

⁶<http://ce.sharif.edu/>

⁷<http://en.sbu.ac.ir/Faculties/Electrical/Pages/default.aspx>

- Web Intelligence Conference(WIIA 2011).
 - *Venue:* Lyon, France.
 - *Date:* August 2011.

■ Summer Schools and Conferences

- iBrigdes 2015 Conference, June2015.
- International Semantic Web Conference (ISWC 2011/ISWC2014).
- Information Retrieval Summer School(ESSIR2011), Koblenz, Germany, August 2011.
- IndianSummer School on Linking Open Data (ISSLOD 2011), Leipzig, Germany, September 2011.
- Web Science Summer School, Leiden, Netherland, July 2012.

■ Language

- *Persian:* Native
- *English:* Fluent
- *German:* Familiar
- *Arabic:* Familiar

■ Community Service (Selected)

- *Reviewer of*
 - Journal of Web Semantics, Science, Services and Agents on the World Wide Web.
 - Semantic Web Journal.
 - Journal of Computational Intelligence.
 - Journal of Web Engineering.
 - Language Resource and Evaluation Conference(LREC).
 - International Semantic Web Conference(ISWC).
 - Association for the Advancement of Artificial Intelligence(AAAI).
 - Journal of Biomedical Semantics on Bio-Medical Information Retrieval (JBMS- Bio Retrieval).
 - International Conference on Web Intelligence, Mining and Semantics.

- *Program Committee of*
 - Clef Labs 2015.
 - Association for the Advancement of Artificial Intelligence(AAAI 2015).
 - IEEE Big Data 2016.
 - World Wide Web (WWW) 2017.

Publications

Journal Publications, peer-reviewed

- Saeedeh Shekarpour, Edgard Marx, Axel-Cyrille Ngonga Ngomo, and Sören Auer. “SINA: Semantic Interpretation of User Queries for Question Answering on Interlinked Data”. In: *Journal of Web Semantics Science, Services and Agents on the World Wide Web*. 2014.
- Saeedeh Shekarpour, Sören Auer, Axel-Cyrille Ngonga Ngomo, Daniel Gerber, Sebastian Hellmann, and Claus Stadler. “Generating SPARQL queries Using Templates”. In: *Web Intelligence and Agent Systems Journal* 11.3 (2013), pp. 283–295.
- Sebastian Tramp, Philipp Frischmuth, Timofey Ermilov, Saeedeh Shekarpour, and Sören Auer. “An architecture of a distributed semantic social network”. In: *Semantic Web* 5.1 (2014), pp. 77–95.
- Edgard Marx, Tommaso Soru, Saeedeh Shekarpour, Sören Auer, Axel-Cyrille Ngonga Ngomo, and Karin Breitman. “Towards an Efficient RDF Dataset Slicing”. In: *Int. J. Semantic Computing* 7.4 (2013), p. 455.
- Saeedeh Shekarpour and S. D. Katebi. “Modeling and evaluation of trust with an extension in semantic web”. In: *Journal of Web Semantics Science, Services and Agents on the World Wide Web* 8.1 (2010), pp. 26–36.
- Saeedeh Shekarpour and S. D. Katebi. “A Trust Model For Semantic Web”. In: *International Journal of Simulation Systems, Science and Technology* 10.2 (2010).

Conference Publications, peer-reviewed

- Saeedeh Shekarpour, Edgars Marx, Sören Auer, and Amit Sheth. “RQUERY: Rewriting Natural Language Queries on Knowledge Graphs to Alleviate the Vocabulary Mismatch Problem”. In: *Proceedings of the Thirty-First AAAI Conference on Artificial Intelligence (AAAI-17), San Francisco, USA*. 2017

- Edgard Marx, Konrad Höffner, Saeedeh Shekarpour, Axel-Cyrille Ngonga Ngomo, Jens Lehmann, and Sören Auer. “Exploring Term Networks for Semantic Search over RDF Knowledge Graphs”. In: *Metadata and Semantics Research - 10th International Conference, MTSR 2016, Göttingen, Germany, November 22-25, 2016, Proceedings*. 2016, pp. 249–261
- Kuldeep Singh, Andreas Both, Dennis Diefenbach, Saeedeh Shekarpour, Didier Cherix, and Christoph Lange. “Qanary - The Fast Track to Creating a Question Answering System with Linked Data Technology”. In: *The Semantic Web - ESWC 2016 Satellite Events, Heraklion, Crete, Greece, May 29 - June 2, 2016, Revised Selected Papers*. 2016, pp. 183–188
- Kuldeep Singh, Andreas Both, Dennis Diefenbach, and Saeedeh Shekarpour. “Towards a Message-Driven Vocabulary for Promoting the Interoperability of Question Answering Systems”. In: *Tenth IEEE International Conference on Semantic Computing, ICSC 2016, Laguna Hills, CA, USA, February 4-6, 2016*. 2016
- Sidra Faisal, Kemele M. Endris, Saeedeh Shekarpour, Sören Auer, and Maria-Esther Vidal. “Co-evolution of RDF Datasets”. In: *Web Engineering - 16th International Conference, ICWE 2016, Lugano, Switzerland, June 6-9, 2016. Proceedings*. 2016
- Andreas Both, Dennis Diefenbach, Kuldeep Singh, Saeedeh Shekarpour, Didier Cherix, and Christoph Lange. “Qanary - A Methodology for Vocabulary-Driven Open Question Answering Systems”. In: *The Semantic Web. Latest Advances and New Domains - 13th International Conference, ESWC 2016, Heraklion, Crete, Greece, May 29 - June 2, 2016, Proceedings*. 2016
- Kuldeep Singh, Andreas Both, Dennis Diefenbach, and Saeedeh Shekarpour. “Towards a Message-Driven Vocabulary for Promoting the Interoperability of Question Answering Systems”. In: *2016 IEEE Seventh International Conference on Semantic Computing, CA, USA, 2016*. 2016.
- Saeedeh Shekarpour, Axel-Cyrille Ngonga Ngomo, and Sören Auer. “Question Answering on Interlinked Data”. In: *22nd International World Wide Web Conference, WWW '13, Rio de Janeiro, Brazil, May 13-17, 2013*. 2013, pp. 1145–1156.
- Saeedeh Shekarpour, Konrad Höffner, Jens Lehmann, and Sören Auer. “Keyword Query Expansion on Linked Data Using Linguistic and Semantic Features”. In: *2013 IEEE Seventh International Conference on Semantic Computing, Irvine, CA, USA, September 16-18, 2013*. 2013, pp. 191–197.

- Edgard Marx, Saeedeh Shekarpour, Sören Auer, and Axel-Cyrille Ngonga Ngomo. “Large-scale RDF Dataset Slicing”. In: *2013 IEEE Seventh International Conference on Semantic Computing, Irvine, CA, USA, September 16-18, 2013*. 2013.
- Saeedeh Shekarpour, Axel-Cyrille Ngonga Ngomo, and Sören Auer. “Keyword-Driven Resource Disambiguation over RDF Knowledge Bases”. In: *Semantic Technology, Second Joint International Conference, JIST 2012, Nara, Japan, December 2-4, 2012. Proceedings*. Springer, 2012, pp. 159–174.
- Saeedeh Shekarpour, Sören Auer, Axel-Cyrille Ngonga Ngomo, Daniel Gerber, Sebastian Hellmann, and Claus Stadler. “Keyword-Driven SPARQL Query Generation Leveraging Background Knowledge”. In: *Proceedings of the 2011 IEEE/WIC/ACM International Conference on Web Intelligence, WI 2011, Campus Scientifique de la Doua, Lyon, France, August 22-27, 2011*. 2011, pp. 203–210.
- Saeedeh Shekarpour and S. D. Katebi. “A Trust Model Based on Statistical Propagation and Fuzzy Aggregation for Semantic Web”. In: *EMS 2008, Second UKSIM European Symposium on Computer Modeling and Simulation, Liverpool, England, UK, 8-10 September 2008*. 2008, pp. 459–464.
- Saeedeh Shekarpour, Hassan Abolhasani, and S. D. Katebi. “Web Structure Mining Techniques”. In: *IDMC 2007, First Data Mining Conference, Amirkabir University, Tehran , Iran*. 2007.

Workshop and Doctoral Consutiom Publications

- Saeedeh Shekarpour, Kemele M. Endris, Ashwini Jaya Kumar, Denis Lukovnikov, Kuldeep Singh, Harsh Thakkar, and Christoph Lange. “Question Answering on Linked Data: Challenges and Future Directions”. In: *Proceedings of the 25th International Conference on World Wide Web, WWW 2016, Montreal, Canada, April 11-15, 2016, Companion Volume*. 2016
- Saeedeh Shekarpour, Denis Lukovnikov, Ashwini Jaya Kumar, Kemele Endris, Kuldeep Singh, Harsh Thakkar, and Christoph Lange. “Question Answering on Linked Data: Challenges and Future Directions”. In: *Proceedings of WWW2016 Companion*. 2016.
- Saeedeh Shekarpour. “DC Proposal: Automatically Transforming Keyword Queries to SPARQL on Large-Scale Knowledge Bases”. In: *The Seman-*

tic Web - ISWC 2011 - 10th International Semantic Web Conference, Bonn, Germany, October 23-27, 2011, Proceedings, Part II. Springer, 2011, pp. 357–364.

- Saeedeh Shekarpour, Axel-Cyrille Ngonga Ngomo, and Sören Auer. “Query Segmentation and Resource Disambiguation Leveraging Background Knowledge”. In: *Proceedings of WoLE Workshop*. 2012.