Svitlana Vakulenko

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Project staff member in the Institute for Information Business
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RESEARCH INTERESTS

Conversational Search, Exploratory Search, Question Answering

EDUCATION

Vienna University of Technology

October 2015 - October 2019

PhD in Computer Science (advisors: Prof. Axel Polleres, Prof. Maarten de Rijke)

University of Tartu

September 2009 – June 2011

MSc in Software Engineering (advisor: Prof. Marlon Dumas)

Kyiv National Economic University

September 2005 – June 2009

BSc in Business Informatics

RESEARCH POSITIONS

Apple Inc. June 2019 – September 2019

Research intern in the Siri Understanding team

Vienna University of Economics and Business

January 2017 – November 2019

September 2014 – December 2016

MODUL University

Project staff member in the Institute for Information Business

Researcher in the Department of New Media Technology

University of Liechtenstein September 2013 – August 2014

Research Assistant in the Institute of Information Systems

Karlsruhe Institute of Technology

November 2011 - March 2012

Research Associate in the Institute of Applied Informatics and Formal Description Methods

RESEARCH PROJECTS

AT FFG CommuniData communidata.at

January 2017 - April 2019

Deliverable 3.1 Dataset Discovery Plugin

EU Horizon 2020 InVID invid-project.eu

May 2016 – December 2016

Deliverable 2.1 Social Media Filtering and Extraction

EU FP7 **PHEME** pheme.eu

Deliverable 3.2 Algorithms for Implicit Information Diffusion Networks Across Media

EU FP7 LiquidPublication liquidpub.org

September 2010 - May 2011

Predicting conference ranking from bibliometric indicators

RESEARCH VISITS

Stanford University

June 2018

Univ.-Prof. Dr. Axel Polleres

Federal University of the State of Rio de Janeiro

April 2018 - May 2018

Assoc. Prof. Dr. Kate Revoredo

University of Amsterdam

July 2017 – September 2017

Prof. Dr. Evangelos Kanoulas

Refereed Publications

I have published 15 peer-reviewed papers, with 81 citations, and an h-index of 6 (Google Scholar, May 2019)

- Sophia Keyner, Vadim Savenkov and Svitlana Vakulenko. Open Data Chatbot. Proceedings of the Extended Semantic Web Conference (ESWC). 2019.
- 2. Svitlana Vakulenko, Kate Revoredo, Claudio Di Ciccio and Maarten de Rijke. QRFA: A Data-Driven Model of Information Seeking Dialogues. Proceedings of the 41st European Conference on Information Retrieval (ECIR). 2019. Best paper (User track).
- 3. Svitlana Vakulenko, Maarten de Rijke, Michael Cochez, Vadim Savenkov and Axel Polleres. Measuring Semantic Coherence of a Conversation. Proceedings of the 17th International Semantic Web Conference (ISWC). 2018. Spotlight paper.
- 4. Svitlana Vakulenko, Ilya Markov and Maarten de Rijke. Conversational Exploratory Search via Interactive Storytelling. Proceedings of the Workshop on Search-Oriented Conversational AI (SCAI@ICTIR). 2017.
- 5. **Svitlana Vakulenko** and Vadim Savenkov. TableQA: Question Answering on Tabular Data. Proceedings of SEMANTiCS Conference. 2017. *Best poster and demo nominee*.
- 6. Sebastian Neumaier, Vadim Savenkov and **Svitlana Vakulenko**. Talking Open Data. Proceedings of the Extended Semantic Web Conference (ESWC), pp. 132-136. 2017.
- 7. Svitlana Vakulenko, Lyndon Nixon, and Mihai Lupu. Character-based Neural Embeddings for Tweet Clustering. Proceedings of the Workshop on Natural Language Processing for Social Media (SocialNLP@EACL). 2017.
- 8. Albert Weichselbraun, Stefan Gindl, Fabian Fischer, **Svitlana Vakulenko**, and Arno Scharl. Aspect-based extraction and analysis of affective knowledge from social media streams. In IEEE Intelligent Systems, pp. 80-88. 2017.
- 9. Svitlana Vakulenko, Albert Weichselbraun, and Arno Scharl. Detection of valid sentiment-target pairs in online product reviews and news media articles. Proceedings of the IEEE/WIC/ACM International Conference on Web Intelligence (WI), pp. 97-104. 2016.
- 10. **Svitlana Vakulenko**, Max Göbel, Arno Scharl and Lyndon Nixon. Know which Way the Wind Blows: Visualising the Propagation of News on the Web. Proceedings of the Workshop on Recent Trends in News Information Retrieval (NewsIR@ECIR), pp. 60-62. 2016.
- 11. Gregory Katsios, **Svitlana Vakulenko**, Anastasia Krithara and Georgios Paliouras. Towards Open Domain Event Extraction from Twitter: REVEALing Entity Relations. Proceedings of the Workshop on Detection, Representation, and Exploitation of Events in the Semantic Web (DERIVE@ESWC).

2015.

- 12. **Svitlana Vakulenko**, Oliver Müller, Jan vom Brocke. Enriching iTunes App Store Categories via Topic Modeling. Proceedings of the 35th International Conference on Information Systems (ICIS). 2014.
- 13. Nadine Reuter, **Svitlana Vakulenko**, Jan vom Brocke, Stefan Debortoli, Oliver Müller. Identifying the Role of Information Systems in Achieving Energy-Related Environmental Sustainability using Text Mining. Proceedings of the European Conference on Information Systems (ECIS). 2014.
- 14. Andrea Herbst, Alexander Simons, Jan vom Brocke, Oliver Müller, Stefan Debortoli, **Svitlana Vakulenko**. Identifying and characterizing topics in enterprise content management: a latent semantic analysis of vendor case studies. Proceedings of the 22nd European Conference on Information Systems (ECIS), pp. 1-15. 2014.
- 15. Peep Küngas, Siim Karus, **Svitlana Vakulenko**, Marlon Dumas, Cristhian Parra, Fabio Casati. Reverse-engineering conference rankings: what does it take to make a reputable conference? Scientometrics, pp. 651-665. 2013.
- 16. **Svitlana Vakulenko**. Extraction of Process Models from Business Process Descriptions. Master thesis. University of Tartu. 2011. (Supervised by Marlon Dumas)

Teaching

- Lecturer of the "Principles of Software Programming" BSc program-curriculum course, Vienna University of Economics and Business, Winter Semester 2017
- Lecturer of the "Introduction to Programming" MSc extra-curriculum course, University of Liechtenstein, Summer Semester 2014

Supervision

2019

- Sophia Keyner BSc, Open Data Chatbot
- Petar Petrov MSc, Social Media News Chatbot: Event Detection
- Yoan Bachev MSc, Social Media News Chatbot: Job Search
- Matthew Minson MSc, Deep Learning Models for Question Answering

2018

- Paul Rudolf Zahrl BSc, Real-time Job Recommendations from Twitter
- Christiane Rank BSc, Social Media and the Future of News: Empirical Study
- Isabel Schwaninger MSc, Detecting Social Unrest on Chinese Microblogs
- Eric Bruch MSc, Open Data Gamification: Quizz Generator

2017

- Alexander Meisl BSc, Open Data for Social Science: Red Cross Use Case
- Donatella Novakovic BSc, Semantic Literature Review on Rumour Detection
- Amar Taugeer MSc, Visualizing Geo-located Open Data

COMMUNITY SERVICE

2019

- Participant in the Dagstuhl Seminar on Conversational Search 10-15 November, Wadern, Germany.
- Program Committee member at the Conference of the North American Chapter of the Association for Computational Linguistics Human Language Technologies (NAACL-HLT 2019).

 Reviewer for the Automated Knowledge Base Construction (AKBC 2019) conference, International Conference on Information Systems (ICIS 2019), Transactions on Information Systems (TOIS) Journal, Knowledge and Information Systems (KAIS) Journal.

2018

- Scientific Committee member at the Language Resources and Evaluation Conference (LREC 2018)
- Jury member at Open Minds Award
- Reviewer for the Semantic Web Journal (SWJ), Knowledge and Information Systems (KAIS) Journal

2017

- Co-organizer of Django Girls Vienna workshop
- Jury member at Open Minds Award
- Reviewer for the Journal of Computer Science and Technology (JCST)

2016

• Reviewer for the International Conference on Computational Linguistics (COLING 2016), ACM Web Science (WebSci 2016), Medal 2016

2015

• Reviewer for the European Conference on Information Systems (ECIS 2015), International Conference on Wirtschaftsinformatik (WI 2015)

2014

• Reviewer for the Multikonferenz Wirtschaftsinformatik (MKWI 2014)

Talks

Measuring Semantic Coherence of a Conversation Stanford Center for Biomedical Informatics Research (BMIR), USA Conversation Mining: Process Mining for Conversational Data Federal University of the State of Rio de Janeiro (UNIRIO), Brazil Semantic Coherence for Conversational Browsing of a Knowledge Graph University of Bonn, Germany CommuniData: project report GovCamp Vienna, Vienna, Austria Conversational Exploratory Search via Interactive Storytelling University of Amsterdam, Netherlands 6 June 2018 24 April 2018 31 January 2018 1 December 2017

Summer Schools

IRSS, Athens, Greece July 2014

7 June 2017

International Research-Centered Summer School in Cognitive Systems

Memory Networks for Question Answering on Tabular Data

Grammarly Meetup, Kyiv, Ukraine

BaSoTI, Kaunas, Lithuania

August 2010

International school focused on advances in telecommunication and information technologies

Honors and Awards

- Student grant for attending European Conference on Information Retrieval (ECIR). 2019
- Travel grant from the Austrian Research Association funding the research visit at Stanford. 2018
- Travel grant for attending the Workshop on Search-Oriented Conversational AI (SCAI). 2017
- Stipend for attending the IS Womens Network Workshop: "Advancing Women In IS". 2014
- Scholarship for attending the Research-Centered Summer School at NCSR Demokritos. 2014
- Scholarship for attending the Graduate School of Computer Science at Saarland University. 2012
- Scholarship from the Estonian Ministry of Foreign Affairs supporting my Master's studies. 2010-2011
- Scholarship for attending Baltic Summer School at Kaunas University of Technology. 2010
- EU Eastern Partnership scholarship from the Open Estonia Foundation. 2010
- Scholarship from the Estonian Ministry of Foreign Affairs supporting my Master's studies. 2009-2010

OPEN-SOURCE SOFTWARE

Most of my research projects, as well as studying and teaching materials are open-source. I authored 63 public software repositories on Github (github.com/svakulenk0) and made 2,019 contributions in the last year (March 2019)

TECHNICAL SKILLS

Programming languages: Python, JavaScript, Java

Machine learning: Tensorflow, Keras Databases: SQL, NoSQL, SPARQL

Other: Git, LaTeX

LANGUAGES

Russian and Ukrainian (Native), English (Professional), German (Advanced), Spanish (Basic)

References

Univ.-Prof. Dr. Axel Polleres

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Dr. Javier Fernandez

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Univ.-Prof. Dr. Maarten de Reijke

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Dr. Kate Revoredo

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