

CURRICULUM VITÆ

PERSONAL INFORMATION

Sophia Katrenko

Citizenship: Ukrainian

Residence: permanent resident of the Netherlands

WWW: <http://sophia.katrenko.com/>

E-mail: sophia@katrenko.com

EXPERIENCE

Head of Smart Content Capabilities at Elsevier,

10/2016-
now

Amsterdam, the Netherlands

project lead for NLP/ML projects (e.g., information extraction, author feedback classification) for research products • projects with internal stakeholders to improve content quality, engaging with the 3rd party providers, reporting on KPIs • managing a team (the Netherlands and India)

Team Lead Data Science at Elsevier,

04/2015-
09/2016

Amsterdam, the Netherlands

tech lead for 30+ commercial bibliometrics projects a year (e.g., interdisciplinary research for HEFCE, UK: methodology and execution; International comparative performance of the UK research base 2016) • World university ranking • data for national assessments • managing a team (Amsterdam and Tokyo)

Data Scientist at Elsevier,

08/2014-
03/2015

Amsterdam, the Netherlands

data extraction and analysis of bibliometric data (Scopus and external sources) • serving governmental and funding bodies

Quantitative Analyst at Capital Tool Company,

04/2013-
06/2014

G-20 SME Finance Challenge winner

Amsterdam, the Netherlands

time series analysis (R) • default prediction and programming for the TREFI platform (Java, Weka, MySQL, shell scripting) • reporting to the World Bank

Postdoctoral Researcher at Utrecht University,

2010 - 2013

Utrecht, the Netherlands

"Between logic and common sense" NWO project • reasoning in language (Java) • publishing • teaching • student supervision

Visiting Researcher at University of Oslo,

08 - 09/2011

Oslo, Norway

building a system for detecting inferences in text (Java)

Researcher at University of Amsterdam,

2008 - 2010

Amsterdam, the Netherlands

research on information extraction (Java, Perl) • publishing • teaching

PhD Researcher at University of Amsterdam, Amsterdam, the Netherlands <i>Adaptive Information Disclosure project (part of Virtual Lab e-science) • programming (Perl, Java) • publishing • teaching</i>	2004 - 2008
Researcher at Lviv Polytechnic University, Lviv, Ukraine <i>research on resolving ambiguities in Ukrainian (Perl, XSLT)</i>	2002 - 2004
Visiting Researcher at University of Tübingen, Tübingen, Germany <i>Virtual Patient project • programming (Perl) • German language data analysis</i>	11/2002 - 11/2003
Visitor at Bergakademie Freiberg, Freiberg, Germany <i>literature review on vagueness and ambiguities in language</i>	01/2002
Freelance journalist at Cnews <i>writing articles (IT, analytics)</i>	2001 - 2002
Analyst at Golden Rain Advertising, Lviv, Ukraine <i>IS design and implementation, predictive models for advertising</i>	1999 - 2001

EDUCATION

<i>PhD in Computer Science,</i> University of Amsterdam, Amsterdam, the Netherlands <i>Title: "A Closer Look at Learning Relations from Text"</i> <i>Supervisor: Prof. Dr. P. W. Adriaans</i>	10.09.2009
<i>MSc in Computer Science (with distinction),</i> Department of Information Systems and Networks, National University Lviv Polytechnics, Lviv, Ukraine	2000-2001
<i>BSc in Computer Science (with distinction),</i> National University Lviv Polytechnics, Lviv, Ukraine	1996-2000
School 8 with advanced course in German, Lviv, Ukraine	1986-1996

PARTICIPATION IN CHALLENGES

Genic Interaction Extraction Challenge (2005) • 2nd Recognising Textual Entailment Challenge (2006) • BioCreative II (2006) • TREC Genomics (2007) • SemEval (2007) • Concrete Noun Categorization (2008, top performing system on 6-way classification)

TECHNICAL SKILLS

platforms: *nix systems, Windows
languages: Java, Perl, shell scripting (used most often), C++,
Prolog (used occasionally), Python (beginner)
XML, XSLT, HTML, \LaTeX , Microsoft Office
IDE: Eclipse, NetBeans
database management: MySQL, MS Access
database design tools: DFD and ERD in ERWin
data mining/machine learning tools: R, Weka (API)
other: Scrum (Certified Scrum Master as of July 2015), Databricks,
HPCC

RESEARCH INTERESTS

predictive modeling • data mining • information extraction • applied
machine learning, especially for natural language processing

AWARDS AND FELLOWSHIPS

Yggdrasil grant (29% selection rate; 26,000 NOK)	2011
EACL grant for participation in ESSLLI 2004	2004
Volkswagen Foundation stipend	2002/2003
Leonhard Euler fellowship	2001/2002
Lviv Municipality Stipend	1999
Lviv City Olympiad in Chemistry, 2nd place	1993-1994

SERVICE

Secretary of the Standing Committee of European Summer School in Logic, Language and Information, attracting around 500 participants yearly	2007 - up to date
Reviewer for NLDB (2014, 2012), LREC (2018, 2014, 2012), ACL 2013, *SEM 2013, IEEE Transactions on Neural Networks and Learning Sys- tems (2013), EACL Student Session 2012, PC CBMS 2012, PC Workshop on Relational Models of Semantics (RELMS 2011) at ACL 2011, PC CogSci Conference 2010, IEEE CBMS (2010, 2009, 2008), HLIE workshop at ECML PKDD 2008, ESSLLI Student Session 2007, MICAI 2006	

ORGANIZATION

Belgian-Dutch Conference in Machine Learning, together with Maarten van Someren and Pieter Adriaans Amsterdam, the Netherlands	2007
Organizer of ESSLLI Student Session, together with Janneke Huitink Malaga, Spain	2006

Co-organizer of the “Language and Computation” track
at ESSLLI Student Session 2005, together with Tamás Biró
Edinburgh, United Kingdom 2005

TEACHING

Learning in Computational Linguistics (lecturer, UU) 2011, 2012
student evaluation 2012: lecturer=4, course content=4.3, increased interest in subject=4.5 (max=5)

Taal- en spraaktechnologie (co-lecturer, UU) 2011, 2012

Artificial Intelligence, Master in AI project (UvA) 2010

Capita in Machine Learning, Language and Speech (UvA) 2009, 2008, 2007

Language Learning (TA, UvA) 2007, 2006

PUBLICATIONS (SELECTION OUT OF 30+ PUBLICATIONS)

IN JOURNALS AND REFEREED PROCEEDINGS

Sophia Katrenko. *Could you make me a favour and do coffee, please?: Implications for Automatic Error Correction in English and Dutch*. In *Proceedings of the First Joint Conference on Lexical and Computational Semantics (*SEM)*, 2012.

Sophia Katrenko, Pieter Adriaans, and Maarten van Someren. Using Local Alignments for Relation Extraction. *International Journal of Artificial Intelligence Research (JAIR)*, impact factor 1.981 (ISI Web), 38:1–48, 2010.

M. Roos, M. S. Marshall, A. P. Gibson, M. Schuemie, E. Meij, S. Katrenko, W.R. van Hage, K. Krommydas, and P.W. Adriaans. Structuring and Extracting Knowledge for the Support of Hypothesis Generation in Molecular Biology. *BMC Bioinformatics*, 10(Supplement 10), 2009.

Sophia Katrenko and Pieter Adriaans. A Local Alignment Kernel in the Context of NLP. In *Proceedings of the 22nd International Conference on Computational Linguistics (Coling)*, Manchester, UK, 2008. [25% acceptance rate].

Sophia Katrenko and Pieter Adriaans. Semantic Types of Some Generic Relation Arguments: Detection and Evaluation. In *Proceedings of the 46th Annual Meeting of the Association for Computational Linguistics: Human Language Technologies (ACL/HLT)*, Columbus, USA, 2008. [26,8% acceptance rate].

THESES

Sophia Katrenko. *A Closer Look at Learning Relations from Text*. PhD thesis, University of Amsterdam, the Netherlands, 2009.

Sophia Katrenko. *An Information System in the Advertising Branch*. Master’s thesis, National University Lviv Polytechnics, Ukraine, 2002.

EDITED VOLUMES

Janneke Huitink and Sophia Katrenko, editors. *Proceedings of the ESSLLI 2006 Student Session*. Malaga, Spain, 2006.

Pieter Adriaans, Sophia Katrenko, and Maarten van Someren, editors.
Proceedings of the Dutch-Belgian Conference on Machine Learning. Amsterdam,
the Netherlands, 2007.

LANGUAGES

Ukrainian (native) • English (fluent) • Dutch (very good, passed
Korte Vrijstellingstoets in 2010) • German (fluent, 10 years at
school) • Russian (fluent) • Polish (very good)

December 2, 2018