

# Tomáš Kliegr - Curriculum Vitae

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CONTACT	Tomáš Kliegr Department of Information and Knowledge Engineering University of Economics Prague nám. W Chuchilla 4	<i>E-mail:</i> tomas.kliegr@vse.cz <i>WWW:</i> <a href="http://nb.vse.cz/~klit01">http://nb.vse.cz/~klit01</a>
RESEARCH INTERESTS	Data science: preference analysis, rule learning, machine learning, natural language processing.	
WORK EXPERIENCE	<b>University of Economics Prague</b> , Faculty of informatics and statistics	
	<i>Researcher</i> , University of Economics, Prague	<b>2011 - 2015</b>
	Scientific and technical representative at the EU FP7 LinkedTV ( <a href="http://linkedtv.eu">linkedtv.eu</a> ), leading team of 10 researchers and developers.	
	<i>Assistant professor</i> , University of Economics	<b>2010 - present</b>
	Research and teaching - data analysis and representation	
	<i>Research assistant</i> , University of Economics	<b>2007 - 2011</b>
	Research in the area of the use of domain knowledge in data mining	
	<b>Self-employed (consultant)</b>	<b>2005 - 2009</b>
	Data processing, web traffic/clickstream analysis	
TEACHING	<b>University of Economics Prague</b> , Faculty of informatics and statistics	
	<i>Knowledge and information processing (4IZ210)</i> , lecturer, instructor	<b>2007 - present</b>
	<i>Theory and practice of markup languages (4IZ238)</i> , instructor	<b>2007 - present</b>
	<i>Knowledge discovery in databases in English (4IZ451)</i> , instructor	<b>2016</b>
	<i>Data mining from the web (4IZ470)</i> , collaboration on design of the course	
EDUCATION	<b>Queen Mary University of London</b> , United Kingdom	
	Ph.D., School of Electronic Engineering and Computer Science	<b>November 2017</b>
	<ul style="list-style-type: none"><li>Thesis “Effect of Cognitive Biases on Human Understanding of Rule-based Machine Learning Models”</li></ul>	
	<b>University of Economics Prague</b> , Faculty of informatics and statistics	
	Ph.D., Computer science (“Informatika”)	<b>2012</b>
	<ul style="list-style-type: none"><li>Dissertation: “Unsupervised entity classification”</li><li>Dean’s award for best dissertation thesis</li></ul>	
	Ing. /Master degree/ with honours, Knowledge technologies	<b>2007</b>
	<ul style="list-style-type: none"><li>Minor field of study: teaching of economic subjects</li></ul>	
	Bc. (With honours), Computer science	<b>2006</b>
RESEARCH STAYS AND SCHOLARSHIPS	<b>Postdoctoral research Stay: TU Darmstadt</b> , Germany (6 months: 1.9.2015–29.2.2016) Knowledge Engineering Group – prof. Johannes Fürnkranz	
	<b>University of North Carolina Charlotte</b> , USA (1 month, 2009) KDD Laboratory – prof. Zbigniew W. Ras	

**Queen Mary University, London**, U.K. (8 months, 2008)  
 PhD visit (8 months) within EU FP7 K-Space, prof. Ebroul Izquierdo  
**Slovak Technical University**, Slovakia (1 semester, 2007)  
 Bilateral government scholarship (prof. Maria Bieliková)  
**Corvinus University**, Budapest (1 semester, 2005), CEEPUS scholarship

AWARDS - PUBLICATIONS	<ul style="list-style-type: none"> <li>• Rector's prize for prestigious publication - journal article (3rd place) <b>2011, 2016</b></li> <li>• Rector's prize for Ph.D. publication (1st and 2nd) <b>2010, 2011</b></li> <li>• Dean's prize for Ph.D. dissertation (1st) <b>2012</b></li> <li>• Dean's prize for journal article (1st) <b>2010, 2015</b></li> <li>• Dean's prize for Ph.D. paper (1st, 3rd, 2nd, 1st) <b>2008, 2010, 2011, 2012</b></li> <li>• Rule ML Challenge, Washington D.C. (2nd) <b>2010</b></li> <li>• K-Space PhD Jamboree Best Poster Competition (2nd), Paris <b>2009</b></li> </ul>
AWARDS - OTHER	<ul style="list-style-type: none"> <li>• Josef Hlávka Award <b>2009</b></li> <li>• Environmental project competition (team leader). CO2 - "what is your response?" British Council &amp; Partnership foundation. 2008 (1st place) <b>2008</b></li> <li>• "Ideas for millions" 2nd place out of 123 submitted projects <b>2007</b></li> <li>• "Startup of the year" in top ten from 60 submitted <b>2007</b></li> <li>• <i>I did not start the startup project - remained in academia</i></li> </ul>
RESEARCH PROJECTS	<p><i>Principal investigator (participant scientific and technical repr. for EU project), successfully defended</i></p> <ul style="list-style-type: none"> <li>• FR CESNET 540/2014, "Pilot application for distributed analysis of big data using computational capacity of CESNET Metacentrum" <b>2015/2016</b></li> <li>• Television Linked to the Web (EU FP7) <b>2011 - 2015</b>            Participated on project proposal, scientific and technical representative of UEP (leading team of 10 researchers and programmers), UEP coordinator doc. Svátek.</li> <li>• IGA 20/2013, "Research of factors influencing application of association rule analysis" <b>2013 - 2015</b></li> <li>• IGA 26/2011, "Local association rule learning using GUHA method in cloud computing environment" <b>2011, 2012</b></li> <li>• IGA 15/10, "Domain knowledge for mining association rules from databases" <b>2010</b></li> <li>• IGA 21/08, "Semantic representation of analytical reports" <b>2008 - 2009</b></li> </ul> <p><i>Projects participated in or contributed to</i></p> <ul style="list-style-type: none"> <li>• OpenBudgets (EU H2020), Petamedia (EU FP7) Network of Excellence (NoE), MŠMT ME913 Kontakt "New tools for data mining", GAČR 201/08/0802 "Using knowledge engineering methods in data mining", GAČR GAP202/10/0761 "Web semantization", K-Space (EU FP6) NoE</li> </ul>
SOFTWARE PROJECTS	<ul style="list-style-type: none"> <li>• <b>Easyminer.eu</b> (rule learning data-mining system),</li> <li>• <b>Entityclassifier.eu</b> (natural language processing)</li> <li>• <b>Inbeat.eu</b> (recommender system)</li> <li>• <b><a href="http://nlp.vse.cz/uta/">http://nlp.vse.cz/uta/</a></b> UTA method (implementation of the MCDA method UTA + its non-monotonic extension)</li> </ul>
DATASETS	<ul style="list-style-type: none"> <li>• Entity Saliency Dataset (<a href="http://ner.vse.cz/datasets/entitysaliency-collection/">http://ner.vse.cz/datasets/entitysaliency-collection/</a>)</li> <li>• Linked Hypernyms Dataset (<a href="http://ner.vse.cz/datasets/linkedhypernyms/">http://ner.vse.cz/datasets/linkedhypernyms/</a>)</li> <li>• Entity Types (<a href="http://ner.vse.cz/datasets/linkedhypernyms/evaluation/">http://ner.vse.cz/datasets/linkedhypernyms/evaluation/</a>)</li> <li>• Word Similarity Rankings (<a href="http://ner.vse.cz/datasets/win353/">ner.vse.cz/datasets/win353/</a>)</li> </ul>
R PACKAGES	<ul style="list-style-type: none"> <li>• <b>arc</b> Association Rule Classification (ARC), implementation of CBA algorithm (Liu et al, 1998).</li> <li>• <b>qcba</b> Quantitative CBA.</li> </ul>

- JOURNAL PAPERS
- Jaroslav Kuchar, Tomáš Kliegr: InBeat: JavaScript recommender system supporting sensor input and linked data. Knowl.-Based Syst. 135: 40-43 **2017**
  - Tomáš Kliegr, Ondřej Zamazal: LHD 2.0: A text mining approach to typing entities in knowledge graphs. J. Web Sem. 39: 47-61 **2016**
  - Tomáš Kliegr: Linked hypernyms: Enriching DBpedia with Targeted Hypernym Discovery. J. Web Sem. 31: 59-69 **2015**
  - Tomáš Kliegr, Vojtěch Svátek, Martin Ralbovský, Milan Šimůnek: SEWEBAR-CMS: semantic analytical report authoring for data mining results. J. Intell. Inf. Syst. 37(3): 371-395 **2011**
- CONFERENCE PAPERS
- Over 30 peer-reviewed papers at conference such as ECML/PKDD, RecSys, PAIS/ECAI, RuleML, Web Reasoning.
- PROGRAM COMMITTEES (LAST 3 YEARS)
- International Joint Conference on Artificial Intelligence + European Conference on Artificial Intelligence (IJCAI-ECAI) **2018**
  - International Semantic Web Conference (Demo section) **2017**
  - European Semantic Web Conference (Demo section) **2016, 2017**
  - International Web Rule Symposium (RuleML) **2014, 2015**
  - Human Memory-Inspired Multimedia Organization and Preservation (HMMP'15) @ ICME **2015**
- CIVIC ACTIVITIES
- Member of local tree protection NGO ([chranime-stromy.cz](http://chranime-stromy.cz)) **2013 - present**
  - “Low Carbon Futures” project (British Council) focused on novel solutions to reducing CO2 emissions. **2008**
  - Oikos Prague, student environmental organization (vicepresident 2007) **2003 - 2008**