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Education	[E1] <b>Dr. rer. nat.</b> , University of Koblenz–Landau, Germany (Computer science, PhD-equivalent) Thesis: <i>On the Spectral Evolution of Large Networks</i>	2011	   
	[E2] <b>Dipl.-Inform.</b> , Technical University of Berlin (Computer science, Master-equivalent) Thesis: <i>Using Integer Linear Programming for Search Results Optimization</i>	2006	
	[E3] <b>Vordiplom</b> , Technical University of Berlin (Computer science, Bachelor-equivalent) Studiengang: Informatik	2003	
	[E4] <b>Baccalauréat</b> , Lycée Français de Berlin (French high school diploma) Série scientifique	1999	
	[E5] <b>Abitur</b> , Lycée Français de Berlin (German high school diploma) Leistungskurse: Mathematik, Physik	1999	
	[E6] <b>Diplôme national du brevet</b> , Lycée Français de Berlin Série collège	1996	
Positions	<b>Senior Dev/Systems Engineer</b> Society for Worldwide Interbank Financial Telecommunication	2025–present	
	<b>Dev/Systems Engineer</b> Society for Worldwide Interbank Financial Telecommunication	2023–2025	
	<b>Postdoctoral Researcher</b> Namur Center for Complex Systems (naXys), University of Namur	2017–2019	
	<b>Postdoctoral Researcher</b> Institute for Web Science and Technologies, University of Koblenz–Landau	2011–2016	
	<b>Visiting Postdoctoral Researcher</b> Networks and Operating Systems Group, University of Cambridge	2013	
	<b>Research Assistant</b> Institute for Web Science and Technologies, University of Koblenz–Landau	2010–2011	
	<b>Research Assistant</b> DAI Laboratory, Technical University of Berlin	2006–2010	
	<b>Student Research Assistant</b> DAI Laboratory, Technical University of Berlin	2002–2006	
	<b>Intern, Air Traffic Control Tower</b> Berlin-Tempelhof Airport	1997	
Research Projects	• <b>KONECT</b> Koblenz Network Collection	2011–present	
	• <b>IDEES</b> (ERDF/FEDER – Wallonia/Wallonie) L'Internet de Demain pour développer les Entreprises, l'Économie et la Société	2017–2019	
	• <b>REVEAL</b> (EU FP7-ICT) Revealing Hidden Concepts in Social Media	2014–2016	

<sup>1</sup>This version of this file is up to date as of July 27, 2025.

- SIP (DFG WGI) 2014–2016  
Social Information Processing – Cloud Infrastructure at the Univ. of Koblenz–Landau
- [SocialSensor](#) (EU FP7-ICT) 2013–2014  
Sensing User Generated Input for Improved Media Discovery and Experience
- [KONECT Cloud](#) 2012–2013  
Large Scale Network Mining in the Cloud
- [ROBUST](#) (EU FP7-ICT) 2010–2013  
Risk and Opportunity Management of Huge-Scale Business Community Cooperation
- [WeKnowIt](#) (EU FP7-ICT) 2010  
Emerging, Collective Intelligence for Personal, Organisational and Social Use
- MULTIPLA (DFG) 2010  
Multi-Ontology Learning: Crossing the Boundaries of Domains and Languages
- [LSR](#) 2010  
Learning Semantic Recommenders
- [UCPM](#) 2010  
User Centric Profile Management
- [SERUM](#) 2010  
Semantic Recommenders Based on Large Unstructured Datasets
- [Connected Living](#) 2009–2010  
Innovationszentrum “Vernetztes Leben” – Innovation Center “Connected Living”
- [SmartSenior](#) 2009–2010  
Subproject Service Infrastructure and Usability Engineering – Intelligent Services for Elderly People
- WebTV 2009–2010  
Semantic TV Recommendations
- [PIA](#) 2006–2010  
Personal Information Agent

## Lecturing








- Graph Theory (Théorie des graphes, in French), Mathematics (BSc), Univ. of Namur, First Quadrimester 2017/18, 2018/19.
- Network Theory and Dynamic Systems (in English), Web Science (MSc), Univ. of Koblenz–Landau, Summer Term 2014, 2015, 2016.
- Introduction to Database Systems (Grundlagen der Datenbanken, in German), Computer Science (BSc), Univ. of Koblenz–Landau, Winter Term 2012/13, 2013/14, 2014/15, 2015/16.

## Other Teaching




- Advanced Topics in Network Science (Seminar), Univ. of Koblenz–Landau, Summer Term 2016.
- Learning Analytics: Aspects of Machine Learning and Empirical Psychology in E-Learning (Learning Analytics: Aspekte des Machine Learnings und empirischer Psychologie beim E-Learning, Proseminar), Univ. of Koblenz–Landau, Winter Term 2015/2016.
- Recommender Systems (Seminar), Univ. of Koblenz–Landau, Summer Term 2015.
- Distributed Scalable Network Analysis (Research Lab), Univ. of Koblenz–Landau, Winter Term 2014/2015.
- Advanced Topics in Network Theory (Seminar), Univ. of Koblenz–Landau, Summer Term 2014.
- Network Theory and Dynamic Systems, Web Science (MSc), tutoring, Univ. of Koblenz–Landau, Summer Term 2013, 2014.

- Social Networks (Soziale Netzwerke, Proseminar), Univ. of Koblenz–Landau, Summer Term 2012, 2013.
- Introduction to Database Systems (Grundlagen der Datenbanken), tutoring, Computer Science (BSc), Univ. of Koblenz–Landau, Winter Term 2010/2011, 2011/2012.























## Supervised Theses





- Marcel Reif. Automatische Erkennung von exakten und Near-Duplikaten in einer Netzwerkdatenbank, *BSc*, Univ. of Koblenz–Landau, 2016. 
- Nils Geilen. Entwicklung eines Systems zur Vorhersage von Nutzeraktivität auf den Diskussionsseiten der Wikipedia, *BSc*, Univ. of Koblenz–Landau, 2015. 
- Jesús Cabello González. Berechnung und Approximation von Kürzeste-Pfad-Statistiken in großen Netzwerken für KONECT, *BSc*, Univ. of Cádiz, 2014. 
- Julia Preusse. Analysis of the WebUni Online Student Community, *Dipl.-Inform.*, Otto von Guericke Univ. Magdeburg, 2010. 
- Stephan Spiegel. A Hybrid Approach to Recommender Systems based on Matrix Factorization, *Dipl.-Inform.*, Tech. Univ. Berlin, 2009. 
- Christian Banik. Recommending Wiki Articles using Collaborative Filtering, *Dipl.-Inform.*, Tech. Univ. Berlin, 2009. 
- Iris Breddin. Untersuchung der Klassifizierbarkeit und Klassifikation von Schweißnahtdaten, *Dipl.-Inform.*, Tech. Univ. Berlin, 2008. 

## Conference Organization

- [Joint International Workshop on Social Influence Analysis and Mining Actionable Insights from Social Networks](#) (SocInf+MAISoN) at the Int. Jt. Conf. on Artif. Intell. and Eur. Conf. on Artif. Intell. (IJCAI-ECAI), 2018, Stockholm, Sweden, Program Chair. 
- [WeST Off-Campus Meeting](#) (OCM), 2016, La Roche-en-Ardenne, Belgium, Chair. 
- [INFORMATIK](#) (largest German computer science conference), 2013, Koblenz, Germany, Publicity Chair. 
- [Web Science Conference](#), 2011, Koblenz, Germany, Publicity Chair. 
- [Special Session on Uncertainty in Network Mining](#) (UNM) at the Int. Conf. on Inf. Processing and Manag. of Uncertainty in Knowl.-based Syst. (IPMU), 2010, Dortmund, Germany, Technical Chair. 

## Articles

- [1] [Understanding Social Networks using Transfer Learning](#). Jun Sun, Steffen Staab, Jérôme Kunegis, *IEEE Comput. Mag.*, 51(6):52–60, 2018.  
- [2] [On the Ubiquity of Web Tracking: Insights from a Billion-Page Web Crawl](#). Sebastian Schelter, Jérôme Kunegis, *J. of Web Sci.*, 4(4):53–66, 2018.      
- [3] [The Problem of Action at a Distance in Networks and the Emergence of Preferential Attachment from Triadic Closure](#). Jérôme Kunegis, Fariba Karimi, Jun Sun, *J. of Interdiscip. Methodol. and Issues in Sci.*, 2, Graphs and Social Systems, 2017.    
- [4] [Continuous-Time Quantum Walks on Directed Bipartite Graphs](#). Beat Tödtli, Monika Laner, Jouri Semenov, Beatrice Paoli, Marcel Blattner, Jérôme Kunegis, *Phys. Rev. A*, 94(5):052338, 2016.   
- [5] [Linguistic Neighbourhoods: Explaining Cultural Borders on Wikipedia through Multilingual Co-editing Activity](#). Anna Samoilenko, Fariba Karimi, Daniel Edler, Jérôme Kunegis, Markus Strohmaier, *Eur. Phys. J. Data Sci.*, 5:9, 2016.    
- [6] [Glaubwürdigkeit und Vertrauen von Online-News](#). Ines C. Vogel, Jutta Milde, Karin Stengel, Steffen Staab, Christoph Carl Kling, Jérôme Kunegis, *Datenschutz und Datensicherheit*, 40(5):312–316, 2015. 
- [7] [Exploiting the Structure of Bipartite Graphs for Algebraic and Spectral Graph Theory Applications](#). Jérôme Kunegis, *Internet Math.*, 11(3):201–321, 2015.  












- [8] [Spectral Evolution in Dynamic Networks](#). Jérôme Kunegis, Damien Fay, Christian Bauckhage, *Knowl. and Inf. Syst.*, 37(1):1–36, 2013. 
- [9] [Discriminating Graphs through Spectral Projections](#). Damien Fay, Hamed Had-dadi, Steve Uhlig, Liam Kilmartin, Andrew W. Moore, Jérôme Kunegis, Marios Iliofotou, *Comput. Netw.*, 55(15):3458–3468, 2011. 
- [10] [Ein gradualisiertes Community-Modell zur Bildung wissenschaftlicher Gemein-schaften](#). Michael Hahne, Corinna Jung, Jérôme Kunegis, Andreas Lommatzsch, André Paus, In: *Analyse sozialer Netzwerke und Social Software – Grundlagen und Anwendungsbeispiele*, 2007.  

## Conference Papers

- [11] [‘Dark Germany’: Hidden Patterns of Participation in Online Far-Right Protests Against Refugee Housing](#). Sebastian Schelter, Jérôme Kunegis, In: *Proc. Int. Conf. on Soc. Inform.*, pp. 277–288, 2017.  
- [12] [Tracking the Trackers: A Large-Scale Analysis of Embedded Web Trackers](#). Se-bastian Schelter, Jérôme Kunegis, In: *Proc. Int. Conf. on Web and Soc. Media*, pp. 679–682, 2016.    
- [13] [Private-Collective Invention and Open Source Software: Longitudinal Insights from Linux Kernel Development](#). Dirk Homscheid, Jérôme Kunegis, Mario Schaar-schmidt, In: *Proc. IFIP Conf. on e-Business, e-Services and e-Society*, pp. 299–313, 2015.  
- [14] [Voting Behaviour and Power in Online Democracy: A Study of LiquidFeedback in Germany’s Pirate Party](#). Christoph Carl Kling, Jérôme Kunegis, Heinrich Hart-mann, Markus Strohmaier, Steffen Staab, In: *Proc. Int. Conf. on Weblogs and Soc. Media*, pp. 208–217, 2015. (Won Best Paper Honorable Mention)     
- [15] [Detecting Non-Gaussian Geographical Topics in Tagged Photo Collections](#). Chris-topth Carl Kling, Jérôme Kunegis, Sergej Sizov, Steffen Staab, In: *Proc. Int. Conf. on Web Search and Data Min.*, pp. 603–612, 2014.  
- [16] [Preferential Attachment in Online Networks: Measurement and Explanations](#). Jérôme Kunegis, Marcel Blattner, Christine Moser, In: *Proc. Web Sci. Conf.*, pp. 205–214, 2013.    
- [17] [What Is the Added Value of Negative Links in Online Social Networks?](#) Jérôme Kunegis, Julia Preusse, Felix Schwagereit, In: *Proc. Int. World Wide Web Conf.*, pp. 727–736, 2013.   
- [18] [Centrality and Mode Detection in Dynamic Contact Graphs; a Joint Diagonal-isation Approach](#). Damien Fay, Jérôme Kunegis, Eiko Yoneki, In: *Proc. Int. Conf. on Advances in Soc. Netw. Anal. and Min.*, pp. 41–48, 2013. 
- [19] [Structural Dynamics of Knowledge Networks](#). Julia Preusse, Jérôme Kunegis, Matthias Thimm, Thomas Gottron, Steffen Staab, In: *Proc. Int. Conf. on Web-logs and Soc. Media*, pp. 506–515, 2013.  
- [20] [Predicting Directed Links using Nondiagonal Matrix Decompositions](#). Jérôme Kunegis, Jörg Fliege, In: *Proc. Int. Conf. on Data Min.*, pp. 948–953, 2012.  
- [21] [Fairness on the Web: Alternatives to the Power Law](#). Jérôme Kunegis, Julia Preusse, In: *Proc. Web Sci. Conf.*, pp. 175–184, 2012.    
- [22] [Diversity Dynamics in Online Networks](#). Jérôme Kunegis, Sergej Sizov, Felix Schwagereit, Damien Fay, In: *Proc. Conf. on Hypertext and Soc. Media*, pp. 255–264, 2012. (Nelson Newcomer Award Nominee)   
- [23] [Searching Microblogs: Coping with Sparsity and Document Quality](#). Nasir Naveed, Thomas Gottron, Jérôme Kunegis, Arifah Che Alhadi, In: *Proc. Int. Conf. on Inf. and Knowl. Manag.*, pp. 183–188, 2011.   
- [24] [Bad News Travels Fast: A Content-based Analysis of Interestingness on Twitter](#). Nasir Naveed, Thomas Gottron, Jérôme Kunegis, Arifah Che Alhadi, In: *Proc. Web Sci. Conf.*, 2011.     

- [25] [Network Growth and the Spectral Evolution Model](#). Jérôme Kunegis, Damien Fay, Christian Bauckhage, In: *Proc. Int. Conf. on Inf. and Knowl. Manag.*, pp. 739–748, 2010. (Won Student Travel Award)   
- [26] [The Link Prediction Problem in Bipartite Networks](#). Jérôme Kunegis, Ernesto W. De Luca, Şahin Albayrak, In: *Proc. Int. Conf. in Inf. Process. and Manag. of Uncertain. in Knowl.-based Syst.*, pp. 380–389, 2010.    
- [27] [Spectral Analysis of Signed Graphs for Clustering, Prediction and Visualization](#). Jérôme Kunegis, Stephan Schmidt, Andreas Lommatzsch, Jürgen Lerner, In: *Proc. SIAM Int. Conf. on Data Min.*, pp. 559–570, 2010. (Won Student Travel Fellowship Award)      
- [28] [Connecting Senior Citizens through Interactive TV](#). Barış Karataş, Torsten Schmidt, Jérôme Kunegis, Till Plumbaum, In: *Proc. Ambient Assist. Living*, 2010. 
- [29] [Learning Spectral Graph Transformations for Link Prediction](#). Jérôme Kunegis, Andreas Lommatzsch, In: *Proc. Int. Conf. on Mach. Learn.*, pp. 561–568, 2009.     
- [30] [The Slashdot Zoo: Mining a Social Network with Negative Edges](#). Jérôme Kunegis, Andreas Lommatzsch, Christian Bauckhage, In: *Proc. Int. World Wide Web Conf.*, pp. 741–750, 2009.     
- [31] [Alternative Similarity Functions for Graph Kernels](#). Jérôme Kunegis, Andreas Lommatzsch, Christian Bauckhage, In: *Proc. Int. Conf. on Pattern Recognit.*, 2008.   
- [32] [Modeling Collaborative Similarity with the Signed Resistance Distance Kernel](#). Jérôme Kunegis, Stephan Schmidt, Christian Bauckhage, Martin Mehlitz, Şahin Albayrak, In: *Proc. Eur. Conf. on Artif. Intell.*, pp. 261–265, 2008.   
- [33] [Assessing the Value of Unrated Items in Collaborative Filtering](#). Jérôme Kunegis, Andreas Lommatzsch, Martin Mehlitz, Şahin Albayrak, In: *Proc. Int. Conf. on Digital Inf. Manag.*, pp. 212–216, 2007.  
- [34] [Adapting Ratings in Memory-Based Collaborative Filtering using Linear Regression](#). Jérôme Kunegis, Şahin Albayrak, In: *Proc. Int. Conf. on Inf. Reuse and Integration*, pp. 49–54, 2007.  
- [35] [Collaborative Filtering using Electrical Resistance Network Models with Negative Edges](#). Jérôme Kunegis, Stephan Schmidt, In: *Proc. Industrial Conf. on Data Min.*, pp. 269–282, 2007. (Best Paper Nominee)  
- [36] [A Multi-agent Framework for Personalized Information Filtering](#). Andreas Lommatzsch, Martin Mehlitz, Jérôme Kunegis, In: *Proc. German e-Science*, 2007.  
- [37] [Using Novel IR Measures to Learn Optimal Cluster Structures for Web Information Retrieval](#). Martin Mehlitz, Jérôme Kunegis, Şahin Albayrak, In: *Proc. Int. Conf. on Web Intell.*, pp. 312–316, 2007. 
- [38] [Scalable Bandwidth Optimization in Advance Reservation Networks](#). Stephan Schmidt, Jérôme Kunegis, In: *Proc. Int. Conf. on Netw.*, pp. 95–100, 2007. 
- [39] [A New Evaluation Measure for Information Retrieval Systems](#). Martin Mehlitz, Christian Bauckhage, Jérôme Kunegis, Şahin Albayrak, In: *Proc. Int. Conf. on Syst., Man and Cybern.*, pp. 1200–1204, 2007. 

## Workshop Papers

















- [40] [Predicting User Roles in Social Networks using Transfer Learning with Feature Transformation](#). Jun Sun, Jérôme Kunegis, Steffen Staab, In: *Proc. Int. Conf. on Data Min. Workshops*, pp. 128–135, Int. Workshop on Data Min. in Netw., 2016.   
- [41] [KONECT – The Koblenz Network Collection](#). Jérôme Kunegis, In: *Proc. Int. Conf. on World Wide Web Companion*, pp. 1343–1350, Web Obs. Workshop, 2013.    
- [42] [Online Dating Recommender Systems: The Split-complex Number Approach](#). Jérôme Kunegis, Gerd Gröner, Thomas Gottron, In: *Proc. RecSys Workshop on Recomm. Syst. and the Soc. Web*, pp. 37–44, 2012.    

	[43] <a href="#">KONECT Cloud – Large Scale Network Mining in the Cloud</a> . Jérôme Kunegis, In: <i>Proc. Spring 2012 Future SOC Lab Day</i> , pp. 107–110, HPI Technical Report Series, 2012.	   
	[44] <a href="#">Link Prediction on Evolving Data using Tensor Factorization</a> . Stephan Spiegel, Jan Clausen, Şahin Albayrak, Jérôme Kunegis, In: <i>Proc. Int. Conf. on Data Min. Workshops</i> , pp. 262–269, Workshop on Behav. Informat., 2011.	 
	[45] <a href="#">Multilingual Ontology-based User Profile Enrichment</a> . Ernesto W. De Luca, Till Plumbaum, Jérôme Kunegis, Şahin Albayrak, In: <i>Proc. Int. Conf. on World Wide Web Companion</i> , pp. 41–42, Workshop on the Multiling. Semant. Web, 2010.	
	[46] <a href="#">Hydra: A Hybrid Recommender System [Cross-Linked Rating and Content Information]</a> . Stephan Spiegel, Jérôme Kunegis, Fang Li, In: <i>Proc. Int. Workshop on Complex Netw. Meet Inf. and Knowl. Manag.</i> , pp. 75–80, 2009.	
	[47] <a href="#">On the Scalability of Graph Kernels Applied to Collaborative Recommenders</a> . Jérôme Kunegis, Andreas Lommatzsch, Christian Bauckhage, Şahin Albayrak, In: <i>Proc. Eur. Conf. on Artif. Intell. Workshops</i> , pp. 35–38, Workshop on Recomm. Syst., 2008.	 
	[48] <a href="#">Resource-Aware Update Policy for Highly Dynamic P2P Networks</a> . Dragan Milošević, Jérôme Kunegis, Şahin Albayrak, In: <i>Proc. Int. Conf. on Web Intell. and Intell. Agent Tech. Workshops</i> , pp. 419–423, Int. Workshop on P2P Comput. and Auton. Agents, 2007.	
<b>Reference Works</b>	[49] <a href="#">Spectral Evolution of Social Networks</a> . Jérôme Kunegis, <i>Encyclopedia of Soc. Netw. Anal. and Min.</i> , Springer, 2013, 2017.	
	[50] <a href="#">Social Network Datasets</a> . Jérôme Kunegis, <i>Encyclopedia of Soc. Netw. Anal. and Min.</i> , Springer, 2013, 2017.	
<b>Abstracts</b>	[51] <a href="#">The Role of Cultural Importance in Sister City Relationships</a> . Mridul Seth, Jérôme Kunegis, Renaud Lambiotte, In: <i>Proc. Wiki Workshop</i> , 2018.	
	[52] <a href="#">SynGraphy: Succinct Summarisation of Large Networks via Small Synthetic Representative Graphs</a> . Jérôme Kunegis, Pawan Kumar Jun Sun, Giuseppe Pirrò, In: <i>Proc. Int. Sch. and Conf. on Netw. Sci.</i> , 2018.	
	[53] <a href="#">SynGraphy: Succinct Summarisation of Large Networks via Small Synthetic Representative Graphs</a> . Jérôme Kunegis, Pawan Kumar, Jun Sun, Giuseppe Pirrò, Anna Samoilenko, In: <i>Proc. Belg. Netw. Res. Meet.</i> , 2017.	 
	[54] <a href="#">Socio-semantic Aspects of Wikipedia Usage across Five Languages</a> . Yérali Gandica, Jérôme Kunegis, In: <i>Proc. Eur. Conf. on Soc. Netw.</i> , 2017.	
	[55] <a href="#">Linguistic Neighbourhoods: Explaining Cultural Borders on Wikipedia Through Multilingual Co-editing Activity</a> . Anna Samoilenko, Fariba Karimi, Daniel Edler, Jérôme Kunegis, Markus Strohmaier, In: <i>Proc. Int. Conf. on Comput. Soc. Sci.</i> , 2017.	
	[56] <a href="#">‘Dark Germany’: Temporal Characteristics and Connectivity Patterns in Online Far-Right Protests Against Refugee Housing</a> . Sebastian Schelter, Jérôme Kunegis, In: <i>Proc. Web Sci. Conf. Extended Abstracts</i> , 2017.	 
	[57] <a href="#">The Problem of Action at a Distance in Networks and the Emergence of Preferential Attachment from Triadic Closure</a> . Jérôme Kunegis, Fariba Karimi, Jun Sun, In: <i>Proc. Int. Sch. and Conf. on Netw. Sci.</i> , 2017.	 
	[58] <a href="#">A Random Graph Model based on a Given Set of Networks</a> . Jérôme Kunegis, Jun Sun, Eiko Yoneki, In: <i>Proc. Int. Sch. and Conf. on Netw. Sci.</i> , 2016.	
	[59] <a href="#">Social Networking by Proxy: Analysis of Dogster, Catster and Hamsterster</a> . Daniel Dünker, Jérôme Kunegis, In: <i>Proc. Int. Conf. on World Wide Web Companion</i> , pp. 361–362, 2015.	 







- [60] [Twitter as a Political Network – Predicting the Following and Unfollowing Behavior of German Politicians](#). Julia Perl, Claudia Wagner, Jérôme Kunegis, Steffen Staab, In: *Proc. Web Sci. Conf.*, 2015. 
- [61] [Linguistic Influence Patterns within the Global Network of Wikipedia Language Editions](#). Anna Samoilenko, Fariba Karimi, Jérôme Kunegis, Daniel Edler, Markus Strohmaier, In: *Proc. Web Sci. Conf.*, 2015. 
- [62] [KONECT – The Koblenz Network Collection](#). Jérôme Kunegis, Steffen Staab, Daniel Dünker, In: *Proc. Int. Sch. and Conf. on Netw. Sci.*, 2012. 
- [63] [LiveTweet: Monitoring and Predicting Interesting Microblog Posts](#). Arifah Che Alhadi, Thomas Gottron, Jérôme Kunegis, Nasir Naveed, In: *Proc. Eur. Conf. on Inf. Retrieval Demonstrations*, pp. 569–570, 2012.  
- [64] [Time-Aware Centrality in Contact Network Analysis](#). Eiko Yoneki, Damien Fay, Jérôme Kunegis, In: *Proc. Eur. Conf. on Complex Syst.*, pp. 58, 2011. 
- [65] [LiveTweet: Microblog Retrieval Based on Interestingness and an Adaptation of the Vector Space Model](#). Arifah Che Alhadi, Thomas Gottron, Jérôme Kunegis, Nasir Naveed, In: *Proc. Text Retrieval Conf.*, 2011. 
- [66] [One Community Does Not Rule Them All](#). Thomas Gottron, Jérôme Kunegis, Ansgar Scherp, Steffen Staab, In: *Proc. Web Sci. Conf.*, 2011. 
- [67] [Challenges in Mining Social Media: Sparsity and Quality](#). Thomas Gottron, Nasir Naveed, Jérôme Kunegis, Arifah Che Alhadi, In: *Proc. Challenges in Document Min. (Dagstuhl Seminar 11171)*, 2011.
- [68] [Exploiting Hierarchical Tags for Context-awareness](#). Alan Said, Jérôme Kunegis, Ernesto W. De Luca, Şahin Albayrak, In: *Proc. Workshop on Exploiting Semantic Annotations for Inf. Retrieval*, pp. 35–36, 2010.  



## Other Publications

- [69] [Guided Graph Generation: Evaluation of Graph Generators in Terms of Network Statistics, and a New Algorithm](#). Jérôme Kunegis, Jun Sun, Eiko Yoneki, *CoRR*, abs/2303.00635, 2023. 
- [70] [SynGraphy: Succinct Summarisation of Large Networks via Small Synthetic Representative Graphs](#). Jérôme Kunegis, Pawan Kumar, Jun Sun, Anna Samoilenko, Giuseppe Pirró, *CoRR*, abs/2302.07755, 2023. 
- [71] [Modeling the Evolution of Networks as Shrinking Structural Diversity](#). Jérôme Kunegis, *CoRR*, abs/2009.09764, 2020. 
- [72] [Handbook of Network Analysis \[KONECT project\]](#). Jérôme Kunegis, *CoRR*, abs/1402.5500(v4), 2017.  
- [73] [Social Networking by Proxy: A Case Study of Catster, Dogster and Hamsterster](#). Daniel Dünker, Jérôme Kunegis, *CoRR*, abs/1501.04527, 2015. 
- [74] [Applications of Structural Balance in Signed Social Networks](#). Jérôme Kunegis, *CoRR*, abs/1402.6865, 2014. 
- [75] [DecLiNe – Models for Decay of Links in Networks](#). Julia Preusse, Jérôme Kunegis, Matthias Thimm, Sergej Sizov, *CoRR*, abs/1403.4415, 2014. 
- [76] [Polcovar: Software for Computing the Mean and Variance of Subgraph Counts in Random Graphs](#). Jérôme Kunegis, *CoRR*, abs/1402.5835, 2014.  
- [77] [On Joint Diagonalisation for Dynamic Network Analysis](#). Damien Fay, Jérôme Kunegis, Eiko Yoneki, Technical report, University of Cambridge, 2011.  
- [78] [Semantic Engine](#). Andreas Lommatzsch, Jérôme Kunegis, Torsten Schmidt, Stefan Marx, White paper, 2010.  
- [79] [The Universal Recommender](#). Jérôme Kunegis, Alan Said, Winfried Umbrath, White paper, 2009.  

## Keynotes and Invited Talks

- [T1] Cats, Dogs, and Hamsters: The Secret Online Network of Pet Owners, [DataBeers Brussels](#), 2017. 
- [T2] [Algebraic Graph-theoretic Measures of Conflict](#), [Journée Graphes et Systèmes Sociaux](#) (Seminar on Graphs and Soc. Syst.), 2016. 
- [T3] Measuring Conflict in Signed Social Networks, [Application of Netw. Theory on Comput. Soc. Sci. \(Workshop\)](#), 2015.
- [T4] Large Network Collections: The Power of Many Datasets, [Int. Workshop on Soc. Netw. Anal. \(ARS\)](#), 2015. 
- [T5] [Network Analysis Tools for Online Communities: The Koblenz Network Collection](#). Keynote, [Workshop on Metrics, Anal. and Tools for Online Community Manag. \(MAMA\)](#), 2013. 







## Academic Tutorials

- [T6] [Network Analysis in the Age of Large Network Dataset Collections – Challenges, Solutions and Applications](#). Jérôme Kunegis, Renaud Lambiotte, [Int. Conf. on Inf. and Knowl. Manag.](#), 2017. 
- [T7] [Web Science in Practice: Web Observatories](#). Jérôme Kunegis, Steffen Staab, [WSTNet Web Sci. Summer Sch.](#), 2016. 





## Other Talks



- [T8] Prediction of Network Semantics from Network Structure: Approaches Based on Large Network Collections. Univ. of Mons, 2018.
- [T9] [What Is the Difference between a Social and a Hyperlink Network? – How the Type of Network Can Be Determined from the Network Structure Alone](#). Workshop on Network Comparison, Univ. of Oxford, 2017. 
- [T10] [Measuring the Conflict in a Social Network with Friends and Foes: A Recent Algebraic Approach](#). Tech. Univ. Berlin, 2017. 
- [T11] [The New KONECT Project at the University of Namur](#). Univ. of Namur, 2017. 
- [T12] [Generating Networks with Realistic Properties Based on a Given \(Set of\) Network\(s\), and a Short Overview of the KONECT Project](#). Univ. of Namur, 2016. 
- [T13] [It's Really about Hamsters](#). [Int. Conf. on Weblogs and Soc. Media Sci. Slam](#), 2016. (Won First Prize) 
- [T14] [KONECT: The Koblenz Network Collection – Towards a Broad Analysis of Complex Systems](#). ETH Zürich, 2015. 
- [T15] [Modeling the Evolution of Networks as Shrinking Structural Diversity](#). Univ. of Koblenz–Landau, 2015. 
- [T16] [Trust in Networks](#). KoMePol Project, 2013. 
- [T17] [Observing the Web: The Koblenz Network Collection](#). Bournemouth Univ., 2013. 
- [T18] [Eight Formalisms for Defining Graph Models](#). Univ. of Koblenz–Landau, 2013. 
- [T19] [Diversity vs Uniformity: Understanding the Evolution of Large Networks](#). ROBUST Project, 2012. 
- [T20] [Linguistic Network Analysis with the Koblenz Network Collection](#). Workshop on Modeling Linguist. Networks, 2012. 
- [T21] Growth and Decay: Using Machine Learning to Predict the Web's Future, Workshop on Artif. Intell. on the Web, 2012.
- [T22] Models of Like, Dislike, Similarity and Dissimilarity using Split-complex Numbers, Univ. Coll. Dublin, 2012.
- [T23] [Why Is Beyoncé More Popular Than Me: Fairness, Diversity and Other Measures of Network Equality](#). Univ. of Freiburg, 2012. 
- [T24] Fairness on the Web: Alternatives to the Power Law. Leibniz-Institut für Sozialwissenschaften, Cologne, 2012.
- [T25] [KONECT – The Koblenz Network Collection](#). WSTNet Meeting, 2012. 
- [T26] On the Spectral Evolution of Large Networks. Univ. Coll. Cork, 2011.







- [T27] [Spectral Analysis of the Vector Space Model \(and Explicit Semantic Analysis\)](#). Jérôme Kunegis, Thomas Gottron, Univ. of Koblenz–Landau, 2011. 
- [T28] On the Spectral Evolution of Large Networks. Fraunhofer IAIS, St. Augustin, 2011.
- [T29] On the Spectral Evolution of Large Networks. Tech. Univ. Berlin, 2011.
- [T30] The Slashdot Zoo: Mining a Social Network with Negative Edges. Data and Knowl. Engineering Research Colloquium, Otto von Guericke Univ. Magdeburg, 2010.
- [T31] The Slashdot Zoo: Mining a Social Network with Negative Edges. Univ. of Koblenz–Landau, 2010.
- [T32] The Slashdot Zoo: Mining a Social Network with Negative Edges. Univ. of Hannover, 2010.
- [T33] [Kernel Methods](#). Competence Center for Information Retrieval and Machine Learning (CC IRML) Journal Club, DAI Laboratory, 2008. 
- [T34] [PIA+COMM – an Intelligent Search Engine](#). Michael Hahne, Corinna Jung, Jérôme Kunegis, Andreas Lommatzsch and André Paus. Workshop on the Formation of Soc. Netw. in Soc. Software Applications, INFORMATIK, 2006. 
- [T35] [Research at the DAI Laboratory](#). 2006. 
- [T36] [Schach und Computer](#). Seminar *Geschichte der Entwicklung des Computers*, Tech. Univ. Berlin, 2005. 
- [T37] [Wettkampf Kasparow – Deep Blue](#). Ahmad Haj Fares and Jérôme Kunegis. Seminar *Computerschach*, 2003. 

**Posters without Publication**

- [P1] Linguistic Neighbourhoods: Explaining Cultural Borders on Wikipedia through Multilingual Co-editing Activity. Anna Samoilenko, Fariba Karimi, Daniel Edler, Jérôme Kunegis, Markus Strohmaier, Int. Sch. and Conf. on Netw. Sci. (NetSciX), 2016. (Won Best Poster Award)  ★
- [P2] Do You Use Stu? Soon, You'll Do. Jérôme Kunegis, WeST Institute Off-Campus Meeting (OCM), 2016. 
- [P3] Social Network Observatory. Jérôme Kunegis, Markus Strohmaier, Steffen Staab. Computat. Soc. Sci. Winter Symp. (CSSWS), 2015. 
- [P4] Quantifying Cultural Similarity through Language Co-occurrences in Wikipedia Editing Activity. Anna Samoilenko, Fariba Karimi, Daniel Edler, Jérôme Kunegis, Markus Strohmaier. Comput. Soc. Sci. Winter Symp. (CSSWS), 2015.
- [P5] Polarisation in Voting Platforms: A Case Study of LiquidFeedback in the German Pirate Party. Manuel Mittler, Christoph Carl Kling, Jérôme Kunegis, Markus Strohmaier, Comput. Soc. Sci. Winter Symp. (CSSWS), 2015.
- [P6] Twitter as a Political Network – Predicting the Following and Unfollowing Behavior of German Politicians. Julia Perl, Claudia Wagner, Jérôme Kunegis, Steffen Staab, Web Sci. Conf., 2015.
- [P7] Online Delegative Democracy: A Case Study of the German Pirate Party's Voting Platform. Christoph Carl Kling, Jérôme Kunegis, Heinrich Hartmann. Comput. Soc. Sci. Winter Symp. (CSSWS), 2014.
- [P8] Social Networking By Proxy: A Case Study of Catster, Dogster and Hamsterster. Comput. Soc. Sci. Winter Symp. (CSSWS), 2014.
- [P9] A Theory-Driven Approach for Link and Unlink Predictions in Directed Social Networks. Julia Perl, Claudia Wagner, Jérôme Kunegis, Steffen Staab. Comput. Soc. Sci. Winter Symp. (CSSWS), 2014.
- [P10] Large Scale Network Analysis [KONECT – The Koblenz Network Collection]. Jérôme Kunegis, Tag der Computervisualistik (CV-Tag), University of Koblenz–Landau, 2013. 





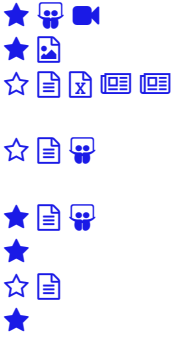
- [P11] Need Networks? KONECT – The Koblenz Network Collection. Eur. Summer Sch. on Inf. Retrieval (ESSIR), 2011.
- [P12] KONECT – The Koblenz Network Collection. Web Sci. Conf., 2011.
- [P13] Uncovering Multi-modal Spread Modes using Joint Diagonalization in Dynamic Human Contact Networks. Damien Fay, Jérôme Kunegis, Eiko Yoneki. Interdiscip. Workshop on Inf. and Decision in Soc. Netw., 2011.
- [P14] On the Spectral Evolution of Large Networks. Postersession für Nachwuchswissenschaftler/innen, Univ. of Koblenz–Landau, 2011. 
- [P15] On the Spectral Evolution of Large Networks. SIAM Conf. on Data Min. Doctoral Forum (SIAM SDM), 2010. 

## Demonstrations

- [D1] Schülerinformationstage, Institute for Web Science and Technologies, Univ. of Koblenz–Landau, 2011, 2013, 2015, 2016. 
- [D2] Institute for Web Science and Technologies, conference booth. [INFORMATIK 2013](#).
- [D3] LiveTweet: Monitoring and Predicting Interesting Microblog Posts, [Eur. Conf. on Inf. Retrieval \(ECIR\)](#), 2012.  
- [D4] PIA, Spree, CeBIT, 2010.
- [D5] PIA+COMM, CeBIT, 2007. 
- [D6] PIA, Lange Nacht der Wissenschaften Berlin/Potsdam, 2006.

## Program Committees

- [Int. Conf. on Complex Netw. and Their Applications](#) [*Workshop* in 2016], 2016, 2017, 2018.
- [Int. AAAI Conf. on Web and Soc. Media \(ICWSM\)](#), 2016.
- [Workshop on Soc. News on the Web \(SNOW\)](#) at the World Wide Web Conf. (WWW), 2014, 2016.
- [Workshop on Soc. Semant. Anal. \(SALSA\)](#), 2016.
- [#FAIL! – The Workshop Series](#) at the Internet Research Conf. (IR), 2015.
- [Web Sci. Track](#), Int. World Wide Web Conf. (WWW), 2014, 2015.
- [#FAIL! – The Workshop Series](#) at the Web Sci. Conf. (WebSci), 2015.
- [Web Sci. Conf.](#), 2011, 2012, 2013, 2014.
- [Workshop on Connecting Online & Offline Life \(COOL\)](#) at the World Wide Web Conf. (WWW), 2014.
- [Int. Joint Conf. on Artif. Intell. \(IJCAI\)](#), 2013.
- [Web Sci. Education Workshop](#) at the Web Sci. Conf., 2013.
- [Conf. on Semant. Tech. and Inf. Retrieval \(STAIR\)](#), 2013.
- [Int. Workshop on Semant. Personalized Inf. Manag. \(SPIM\)](#) at the Int. Conf. on Web Search and Data Min. (WSDM), 2013.
- [Eur. Conf. on Inf. Retrieval \(ECIR\)](#), 2013.
- [Workshop on Metrics, Anal. and Tools for Online Community Manag. \(MAMA\)](#), at INFORMATIK, 2013
- [Eur. Conf. on Inf. Retrieval \(ECIR\)](#), poster track, 2012.
- [Conf. on Natural Language Processing \(KONVENS\)](#), 2012.
- [Workshop on Personalized Inf. Manag.: Linking Soc. and Semant. Web \(SPIM\)](#) at the Int. Conf. on Web Engineering (ICWE), 2012.
- [Int. Conf. on Inf. and Knowl. Manag. \(CIKM\)](#), 2011.
- [Int. Conf. on Knowl. Discovery and Data Min. \(KDD\)](#), research track, 2011.
- [Challenge on Context-aware Movie Recomm. \(CAMRa\)](#) at the Conf. on Recomm. Syst. (RecSys), 2010.
- [Special Session on Uncertainty in Netw. Min. \(UNM\)](#) at the Int. Conf. on Inf. Processing and Manag. of Uncertainty in Knowl.-based Syst. (IPMU), 2010.

Other Reviewing	<ul style="list-style-type: none"> <li>• Royal Military Academy, Belgium, 2018.</li> <li>• <a href="#">Netw. Sci.</a>, 2015, 2016.</li> <li>• <a href="#">ACM Comput. Surveys</a>, 2014, 2015.</li> <li>• <a href="#">The J. of Web Sci.</a>, 2014, 2018.</li> <li>• <a href="#">ACM Trans. on Internet Tech. (TOIT)</a>, 2014.</li> <li>• Special Issue on “Propagation Phenomenon in Complex Networks: Theory and Practice”, <a href="#">New Generation Comput.</a>, 2014.</li> <li>• <a href="#">Int. Semant. Web Conf. (ISWC)</a>, 2013.</li> <li>• <a href="#">Int. Conf. on Comput. Stat. (COMPSTAT)</a>, 2012.</li> <li>• <a href="#">Int. J. of Comput. and Telecommunications Netw. (COMNET)</a>, 2012.</li> <li>• <a href="#">IEEE Trans. on Neural Netw. (TNN)</a>, 2011.</li> <li>• <a href="#">J. on Auton. Agents and Multi-agent Syst. (AAMAS)</a>, Special Issue on Agent Mining, 2011.</li> <li>• <a href="#">ACM Trans. on Knowl. Discovery from Data (TKDD)</a>, 2011.</li> <li>• <a href="#">TV Content Anal. (TVCA)</a>, 2011.</li> <li>• <a href="#">Workshop on Ontologies and Lexical Resources (OntoLex)</a> at the <a href="#">Int. Conf. on Comput. Linguist. (COLING)</a>, 2010.</li> </ul>	
Volunteering	<ul style="list-style-type: none"> <li>• <a href="#">WSTNet Web Science Summer School (WWSSS)</a>, Koblenz, 2016.</li> <li>• <a href="#">Festival of Ideas</a>, Cambridge, 2013.</li> <li>• <a href="#">International Semantic Web Conference (ISWC)</a>, Bonn, 2011</li> <li>• <a href="#">European Summer School on Information Retrieval (ESSIR)</a>, Koblenz, 2011.</li> </ul>	
Software Authorship	<ul style="list-style-type: none"> <li>• <a href="#">Stu</a>, build automation (C++14)</li> <li>• <a href="#">KONECT Toolbox</a>, network analysis toolbox (Matlab, C99)</li> <li>• <a href="#">Polcovar</a>, counting subgraph patterns in random graphs (Matlab)</li> <li>• <a href="#">Universal Recommender</a>, recommendation library (Java)</li> <li>• <a href="#">BabyChess</a>, chess engine and GUI (C++98)</li> <li>• More: see <a href="https://github.com/kunegis">github.com/kunegis</a></li> </ul>	
Other	<ul style="list-style-type: none"> <li>• <i>Paphiopedilum</i> Belgian Sunshine, first cultivation of hybrid orchid.</li> </ul>	
Mentions in Media	<ul style="list-style-type: none"> <li>• <a href="#">Die Abstimmungssoftware LiquidFeedback in der Piratenpartei: wegweisend für Demokratie 2.0?</a> (in German), <a href="http://www.piratenpartei.de">www.piratenpartei.de</a>, May 2015.</li> <li>• <a href="#">Come ha funzionato davvero la democrazia liquida dei Pirati tedeschi</a> (in Italian), <a href="#">Wired Italia</a>, April 2015.</li> </ul>	 
Awards and Nominations	<ul style="list-style-type: none"> <li>• First Prize, <a href="#">Int. Conf. on Web and Soc. Media (ICWSM) Science Slam</a>, 2016.</li> <li>• Best Poster Award, <a href="#">Int. Sch. and Conf. on Netw. Sci. (NetSciX)</a>, 2016.</li> <li>• Best Paper Honorable Mention, <a href="#">Int. Conf. on Web and Soc. Media (ICWSM)</a>, 2015.</li> <li>• Ted Nelson Newcomer Award Nominee, <a href="#">Conf. on Hypertext and Soc. Media (HT)</a>, 2012.</li> <li>• Student Travel Award, <a href="#">Int. Conf. on Inf. and Knowl. Manag. (CIKM)</a>, 2010.</li> <li>• Student Travel Fellowship Award, <a href="#">SIAM Conf. on Data Min. (SDM)</a>, 2010.</li> <li>• Best Paper Nominee, <a href="#">Industrial Conf. on Data Min. (IndCDM)</a>, 2007.</li> <li>• First Prize, <a href="#">Rallye mathématique d’Alsace, Terminale (Alsace Mathematical Rally, 12<sup>th</sup> grade)</a>, 1999.</li> </ul>	

## Popularization

- [i] [Game Dependency Graph: Day of the Tentacle](#). 2021.
- [ii] [Game Dependency Graph: The Curse of Monkey Island](#). 2020.
- [iii] [Game Dependency Graph: Monkey Island 2: LeChuck's Revenge](#). 2020.
- [iv] [Network of Characters in Harry Potter](#). 2019.
- [v] [Phylogenetic Tree of My Houseplants](#). 2019.
- [vi] [Game Dependency Graph: The Secret of Monkey Island](#). 2019.
- [vii] [Binary Fluorine Compounds](#). 2017.
- [viii] [How to Pronounce German Vowels](#). 2017.
- [ix] [Pronunciation of English Vowels](#). 2015.
- [x] [Taxonomy of  \$n \times n\$  Matrices](#). 2012.



## Skills

- **Languages:** French (native), German (native), English (advanced, C2), Dutch (beginner, A2), Spanish (intermediate), Portuguese (beginner).
- **Programming languages:** Major work performed in: C (C90, C99), C++ (experience with C++98, C++14, C++17, C++20), Java (SE 6, SE 8), Matlab (2009), Perl (5), Python (3), shell scripting (POSIX, Bash, KSH); work performed in: Ada, AWK, BASIC, JavaScript, Julia, Logo, Object Pascal, Octave, PHP, Turbo Pascal, Tcl.
- **Operating systems:** Major work performed on: GNU/Linux (Ubuntu, Red Hat), Windows, AIX; work performed on: FreeBSD, macOS.
- **Source code management and bug tracking:** Bugzilla, CVS, Git, Gitlab/Github/Bitbucket, Jira, Kanban, Subversion/SVN.
- **Build systems and continuous integration/delivery (CI/CD):** Ant, Autotools/Autoconf/Automake, CMake, Conan, Cook, Jenkins, Make, Maven, Stu (I am the author).
- **Programming environments and editors:** Eclipse, Emacs, IntelliJ, vi.
- **Query, data processing and representation technologies:** CSV/TSV, RDF, relational databases, sed, SQL, XSLT.
- **Typesetting and layouting:** CSS, HTML, JSP, Tex/Latex.
- **Programming methodologies and topics:** Agent-oriented programming, agile software development, character encodings, chess programming, data manipulation / data engineering, internationalization, linear programming / optimization, machine learning, message passing, numerical computing, object oriented programming, parsing, regular expressions, scrum, systems programming, visualization / plotting.
- **Networking and organizational skills:** Organisation of conferences, workshops, off-campus meetings, use of Twitter/Facebook for outreach, popularization of scientific topics.
- **Teaching and didactical skills:** Lectures, seminars, projects, supervision of bachelor/master/PhD theses, drafting and correcting exams. I have given both lectures and academic talks in English, French and German.
- **Scientific topics:** Algebraic graph theory, complex networks, data mining, databases / relational algebra, game theory, graph theory, linear algebra, machine learning, matrix decompositions, network science, network theory, random graphs, recommender systems, search engines / information retrieval, semantic web, web science.
- **Research highlights:** First study and large published dataset about social networks with negative ‘enemy’ edges [30], large-scale study of web tracking [12], algebraic analysis of bipartite networks [26] and signed graphs [27], invented a machine learning technique for link prediction [29], introduced the spectral evolution model for networks [25], introduced measures for the skewness of degree distributions [21].

## Software Development















- **Swift's Solution for CREST (CREST over SwiftNet)** 2023–present  
Message passing platform (C, C++)
- **Tracking Analysis** 2018  
Analysis of large-scale web tracking data (shell script, Matlab)
- **Sant ** 2018–present  
Health data mining and analysis (Python)
- **Social Information Processing** 2014–2017  
Cloud infrastructure for intra-department collaboration on computing projects (acquisition and management of 18-machine cloud)
- **REVEAL** 2014–2016  
Latent data discovery (Octave)
- **LiquidFeedback** 2014–2015  
Extraction and analysis of data from a liquid democracy platform (Python, shell scripting)
- **Polcovar** 2013  
Symbolic calculation of the number of arbitrary subgraph counts in Erd s–R nyi graphs (Matlab, Octave)
- **SynGraphy** 2013–2015  
A library for graph generation based on arbitrary graph properties (Matlab)
- **Petster** 2013–2017  
Crawling and analysis of social media data from pet social networks (shell scripting, Matlab, Python)
- **SocialSensor** 2013–2014  
Social media content analysis platform (Java)
- **KONECT-Toolbox** 2012–2022  
Toolbox for calculation of network statistics, matrix decompositions and other characteristics (Matlab, Octave)
- **Stu** 2012–present  
Build system for large data analysis projects (C++14)
- **KONECT-Web** 2011–present  
Website of the KONECT project (HTML, shell scripting, Perl, Octave, Stu)
- **KONECT-Analysis** 2011–2022  
Analysis code of KONECT, creation of plots and visualizations (C++11, shell scripting, Matlab, Octave, Julia, Perl)
- **KONECT-Extr** 2010–2019  
Extraction library for the 1000+ KONECT network datasets (shell scripting, C99, Perl)
- **ROBUST** 2010–2013  
Analysis of business communities (Java)
- **LiveTweet** 2010–2011  
Extraction and analysis of Twitter trends (Java, Matlab)
- **Learning Semantic Recommenders** 2010  
Link prediction library on network data with semantic relationships (Java)
- **SmartSenior** 2009–2010  
Intelligent services for elderly people (Java)
- **WebTV** 2008–2010  
Recommender system for smart TVs (Java)
- **Slashdot Zoo** 2008–2009  
Crawling Slashdot.org and analysis of friend/foe relationships (shell scripting, Matlab)
- **Universal Recommender** 2007–2010  
Library for building recommender systems (Java)

- **Search Results Optimization via Linear Integer Programming** 2006  
Search engine using linear integer programming to support hard and soft constraints (Java)
- **DDDC** 2005–2010  
Monitoring tool for continuous deployment (shell scripting)
- **PIA – Personal Information Agent** 2002–2010  
Search engine and social exchange site for scientific documents (Java, HTML, CSS)
- **BabyChess** 1998–2006  
Chess engine and desktop application (C++98)

## Miscellaneous

- Birthday: March 27

## Legend

 Publication is available  
  Publication is available on arXiv  
  Poster is available  
  Slides are available  
  Publication has 100+ citations  
  Publication/event has an accompanying website  
  Dataset is available  
  Source code is available  
  Video of talk is available  
  A blog article was written about the topic  
  Official registration of hybrid orchid  
  Publication has media coverage  
  I won a prize for this work  
  Nomination for a prize