

Curriculum Vitae

Zinayida Kensche (née Petrushyna)
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Born on July 12th, 1983 in Odessa, Ukraine



Academic Education

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|--------------------------------|--|
| March 2008
November 2015 | Doctoral Studies in Computer Science
at RWTH Aachen University
Title: Modeling Communities in Information Systems:
Informal Learning Communities in Social Media (A) |
| September 2005
January 2008 | Master in Software Systems Engineering (A)
at RWTH Aachen University
Title of Diploma Thesis: Network Modelling and Structural-
Semantic Analysis of E-learning Communities (A-) |
| September 2000
July 2004 | Bachelor in Computer Science at Odessa National
Polytechnic University (A) |

Positions Held

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| January 2016
Today | Postdoc researcher at the Databases and Information
Systems Chair (RWTH Aachen University)
advising bachelor and master students, organizing events,
writing research proposals and research publications |
| October 2015
February 2016 | Lecturer in HS Niederrhein, Web Science lecture and
exercises |
| March 2008
November 2015 | Research and Teaching assistant at the Databases and
Information Systems Chair (RWTH Aachen University)
14 bachelor, master and diploma students; 21 research
papers; three research projects (FP7 EU IP, LLP and
TEMPUS) with project management responsibilities and a
responsibility for staff management; organization and
supervision of "Web Science" lectures, three seminars and
one practical lab |
| June 2006
May 2007 | Student Research Assistant in the Advanced
Community Information Systems Working Group
(RWTH Aachen University)
developing and maintaining Plone CMS presentation layer
of the Prolearn Academy website and its services |

Projects

Investigation
online communities
employing behavioral
experiments with
non-random
virtual users
(INCENTIVE)

Together with colleagues from the Northeastern Network of Science Institute we connect what a person shares on an online public platform with his/her offline behavior by combining the study social media data with experiments performed on real human subjects. Currently we collect data from online platform and apply recent AI technologies for predicting behaviors of communities in the future.

Responsive Open
Learning Environments
([ROLE](#))

In this project I mainly explored the data of learners in the Web (several millions of entities) and detected their patterns and goals applying social network analysis, community detection and evolution, and text analysis. I cooperated with other partners in developing the methodology of the ROLE framework focusing on data analyses, their outcomes and their usage for ROLE applications and partners.

Teacher's Lifelong
Learning Network
([TeLLNet](#))

Here together with colleagues I designed a data warehouse that allows to perform numerous data analyses to find insights in collaborations between European teachers. I was responsible for a data exploration application that calculates teacher competences and visualizes their collaborations using social network analysis measures.

Cairo University
E-Learning Center
(CUELC)

Within this project, I conducted management and coordination tasks as well as tasks devoted to development of the e-learning center and international programming contests.

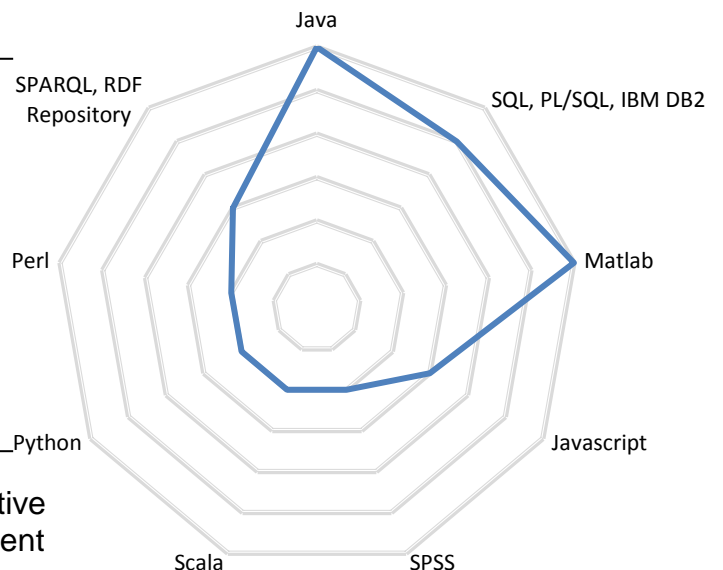
International Recruiting
at RWTH Aachen
University

In this project we developed the identity and image of the university institutes that aim to increase interest of international students in studying at the university.

Technical Experience

CASE Tools
Eclipse, Yourkit Profiler, CVS, Git, sbt

Modeling
UML, XML Schema, Relational Model, *



Technical Experience

Russian
English, German, Ukrainian

Native
Fluent

Awards

BIT Research School Scholarship 2012-2015

Software System Engineering Scholarship at RWTH Aachen 2006-2008

Program Committee Member

European Conference on Technology Enhanced Learning
2013-2017

Joint Technology Enhanced Learning Summer School
2011-2017

International Conference on Social Eco-Informatics 2013-
2015

IADIS Web Based Communities and Social Media
Conference 2013-2015

The Doctoral Consortium at European Conference on
Technology Enhanced Learning 2014-2015

IADIS e-Learning Conference 2009-2014

eKNOW 2011, The Third International Conference
on Information, Process, and Knowledge Management

Reviewer for

“Sociak Network Analysis and Mining”, 2015-2016

Handbook of Learning Analytics and Educational Data
Mining, 2016

“ECTEL meets ECSCW 2013” Workshop on Collaborative
Technologies for Working and Learning

The Emerald Program: Electronic Library and Information
Systems Journal, 2012

Workshop on Exploring the Fitness and Evolvability of
Personal Learning Environments,
EFEPLE'11

Editorial Board

International Journal in Technology Enhanced Learning,
Special Issue on Learning Analytics, 2013

Scientific Conference Organization

The 10th International Conference on Web-based Learning,
2011

Joint Technology Enhanced Learning Summer School
2010- 2012 (Student committee, web support)

Teaching Experience

Web Science Seminar (summer term 2013, 2014)
Web Science Lecture (winter term 2009-2010, 2012-2013, 2015-2016(FH))
Entrepreneurship and New Media Lab
(winter term 2008-2009)
Network Analysis in a Network Age Seminar
(summer term 2009)

Students Advised

Lei Wang, Diplom *Application of Game Theory in the Long Tail of Learning, 2009*

Ognyana Hristova, MSc. *The Culture of Wikis – A Dynamic Network Analysis Approach, 2009*

Shuo Li, MSc. *Recognizing People, Places, Conferences and Events in the Web 2.0, 2010*

Julian Krenge, Diplom *Mining of community learning goals, 2011*

Jan-Martin Pulwitt, Diplom *Dynamic influence network models and weak signals in social media, 2011*

Ergang Song, Diplom *Competence Management with Social Network Analysis in the eTwinning Database, 2011*

Nachiketa Roy, BSc. *Effective visual representation of the semantic data of 500,000 Internet resources, 2012*

Alexander Ruppert, BSc. *A RESTful service for visualization of community models with i*, 2014*

Florian Obeloer, BSc. *Mapping and simulation of i* learning community models to Java-based agents, 2014*

Alex Tritthart, MSc. *Optimizing common algorithms of community evolution to the multi-core architecture GPU, 2015*

Alexandra Chueva, MSc. *A Cloud--Based Near Real--time Event Analysis Framework for Twitter, 2015*

Svetlana Pavlitskaya, BSc. *Prediction of Community Behavior in News Social Media using Deep Learning*

Julia Abelen, BSc. *Fluctuation of users in Internet communities*

Publications

- Zinayida Petrushyna: Predicting user movements between online forum communities. Poster session at 3rd GESIS Computational Social Science Winter Symposium 2016, Cologne, Germany
- Zinayida Petrushyna, Mohsen Shahriari, Ralf Klamma: Asking An Expert or a Friend? Simulating Forum Communities of Learners Using Reciprocity and Preferential Attachment, Poster session at 2nd GESIS Computational Social Science Winter Symposium 2015, Cologne, Germany
- Zinayida Petrushyna, Ralf Klamma, Milos Kravcik. On Modeling Learning Communities. In *Proceedings of 10th European Conference of Technology Enhanced Learning (EC-TEL)*, Toledo, Spain, September 16-18, 2015
- Zinayida Petrushyna, Ralf Klamma, Alexandra Chueva, Joachim Lanfermann. A Near-Real Time Application for Twitter Data Analysis. Published in *Proceedings of the 17th General Online Research Conference (GOR)*, Cologne, Germany, 18-19 March, 2015, pp. 44
- Zinayida Petrushyna, Ralf Klamma, Matthias Jarke. The Impact of Culture On Smart Community Technology: The Case of 13 Wikipedia Instances. *Interaction Design and Architecture(s) Journal - IxD&A*, N.22 (2014), pp. 34-47
- Zinayida Petrushyna, Alexander Ruppert, Ralf Klamma, Dominik Renzel, Matthias Jarke. i*-REST: Light-Weight Modeling with RESTful Web Services. Published in F. Dalpiaz, J. Horkoff (Eds.): *Proceedings of the Seventh International i* Workshop co-located with the 26th International Conference on Advanced Information Systems Engineering (CAiSE)*, Thessaloniki, Greece, June 16-17, 2014, CEUR Workshop Proceedings 1157, paper 15.
- Veronica Rivery-Pelayo, Maria Jesus Rodriguez-Triana, Zinayida Petrushyna, Simone Braun, Ana Loureiro, Ricardo Kawase: Editorial. *Int. J. Technology Enhanced Learning*, Vol. 5, No. 2, 2013
- Manh Pham, Yiwei Cao, Zinayida Petrushyna, Ralf Klamma. Learning Analytics in a Teachers' Social Network. Published in Hodgson, et al. (eds.): *Proceedings of the 8th International Conference on Networked Learning (NLC)*, Maastricht, the Netherlands, April 2-4, 2012, pp. 414 - 421.
- Zinayida Petrushyna, Milos Kravcik, Ralf Klamma. Learning Analytics for Communities of Lifelong Learners: a Forum Case. Published in *Proceedings of 11th IEEE International Conference on Advanced Learning Technologies (ICALT)*, Athens, GA, USA, 6-8 July, 2011, pp. 609-610
- Julian Krenge, Zinayida Petrushyna, Milos Kravcik, Ralf Klamma. Identification of Learning Goals in Forum-based Communities, Published in *Proceedings of 11th IEEE International Conference on Advanced Learning Technologies (ICALT)*, Athens, GA, USA, 6-8 July, 2011, pp. 307-309
- Milos Kravcik, Ralf Klamma, Zinayida Petrushyna, How can Psychology inform the Design of Learning Experiences? Published in *Proceedings of 11th IEEE International Conference on Advanced Learning Technologies (ICALT)*, Athens, GA, USA, 6-8 July, 2011, pp. 300-301
- Riina Vuorikari, Adriana Berlanga, Romina Cachia, Yiwei Cao, Sibren Fetter, Anne Gilleran, Ralf Klamma, Yves Punie, Santi Scimeca, Peter Sloep, Zinayida Petrushyna, ICT-Based School Collaboration, Teachers' Networks and their Opportunities for Teachers' Professional Development - A Case Study on eTwinning, Published in *Proceedings of 10th International*

Conference on Advances in Web-Based Learning (ICWL), Hong Kong, December 2011, Lecture Notes in Computer Science, vol. 7048, pp. 112-121, Springer Verlag

- Ergang Song, Zinayida Petrushyna, Yiwei Cao, Ralf Klamma. Learning Analytics at Large: The Lifelong Learning Network of 160, 000 European Teachers, Published in Carlos Delgado Kloos, Denis Gillet, Raquel M. Crespo García, Fridolin Wild, Martin Wolpers (Eds.): *Towards Ubiquitous Learning – Proceedings of 6th European Conference of Technology Enhanced Learning (EC-TEL)*, Palermo, Italy, September 20-23, 2011, pp. 398-411
- Felix Mödritscher, Zinayida Petrushyna, and Effie Lai-Chong Law. The Application of Pattern Repositories for Sharing PLE Practices in Networked Communities. *J. UCS* 17.10 (2011): pp. 1492-1510.
- Felix Mödritscher, Zinayida Petrushyna, and Effie Lai-Chong Law. Utilising pattern repositories for capturing and sharing PLE practices in networked communities. Published in *Proceedings of the International Conference on Knowledge Management (I-KNOW)*, Graz, Austria, September, 1-3, 2010
- Zinayida Petrushyna, Self-modeling and Self-reflection of E-learning communities, Published in *Proceedings of the 5th Doctoral Consortium at 5th European Conference on Technology Enhanced Learning (EC-TEL)*, Barcelona, Spain, 28 September – 1 October. 2010, pp. 61-66
- Ralf Klamma, Zinayida Petrushyna, Pattern-Based Competence Management: On the Gap between Intentions and Reality, Published in *Proceedings of 11th IFIP WG 5.5 Working Conference on Virtual Enterprises (PRO-VE)*, St. Etienne, France, October 11-13, 2010, pp. 364-371
- Zinayida Petrushyna, Ralf Klamma, Milos Kravcik, Designing During Use: Modeling of Communities of Practice, Published in *Proceedings of 4th IEEE International Conference on Digital Ecosystems and Technologies (DEST)*, Dubai, U.A.E., 13-16 April 2010, pp. 612-617
- Zinayida Petrushyna, Ralf Klamma, No Guru, No Method, No Teacher: Self-Observation and Self-Modelling of E-Learning Communities, Published in *Proceedings of 3rd European Conference on Technology Enhanced Learning (EC-TEL)*, Maastricht, The Netherlands, Springer-Verlag, LNCS 5192, pp.354-365
- Ralf Klamma, Zinayida Petrushyna, The Troll Under the Bridge: Data Management for Huge Web Science Mediabases, Published in H.-GT. Hegering, A. Lehmann, J. Ohlbach, C. Scheideler (eds.): *Proceedings of the 38. Jahrestagung der Gesellschaft für Informatik e.V. (GI), die INFORMATIK*, 8-13 September 2008, Munich, Germany, pp. 923-928
- Yiwei Cao, Anna Hannemann, Ralf Klamma, Zinayida Petrushyna, Getting to "Know" People on the Web 2.0, Published in K. Tochtermann et. al. (Eds.): *Proceedings of International Conferences on Knowledge Management and New Media Technology (I-KNOW)*, Graz, Austria, September 3-5, 2008, pp.169-176