

# Alexander Porshnev

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Nizhny Novgorod, Russia

Date of birth: June 25, 1976

Marital status: married

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## SUMMARY

At least four years of experience in Python, C, R development on Windows platform in research teams at National Research University Higher School of Economics. Work closely with natural language processing using graph analysis and other data mining techniques.

Ten years of experience of running multidisciplinary research projects, including psychology, psycholinguistics, computer science, behavioral finance, and management. Membership in IEEE (2013-2014), ISCAR (2005-2015), IACCP (2011-2013) societies. Reviewer for Analysis of Images, Social Networks and Texts conference (2014-2016). Reviewer for the International Journal of Organizational Analysis.

Excellent and experienced presenter with a deep understanding of the different problem areas. Fast learner with broad background. Obtain exceptional organizational skills. Have an ability to manage time and priorities efficiently. Possess strong interpersonal skills and have an outgoing personality. Speak English at advanced level.

## EDUCATION

PhD in Educational Psychology, 2002

Specialist in Applied Mathematics and Informatics, Nizhny Novgorod State University, 1998

## TECHNICAL ENVIRONMENT

*Languages:* Python, R

*Libraries/Technologies:* NLTK, NetworkX, SentiWordNet

*Software:* PyCharm, R, RapidMiner

*Operating Systems:* Windows XP/Vista/7, Linux (Ubuntu)

## CAREER HISTORY

**Apr 2018 – Present      National Research University Higher School of Economics, Saint Petersburg, Russia**

*Position: Senior research Fellow Laboratory of Internet Studies*

**Jan 2005 – Present      National Research University Higher School of Economics, Nizhny Novgorod, Russia**

*Position: Senior lecturer 2005-2009, since 2009 Associate Professor*

*Work in interdisciplinary projects, Curriculum development and teaching undergraduate courses (Business Research Methods, Making Management Decisions, Ontology Modelling (Knowledge Management), Behavioral Finance, Zotero: a free citation tool for everyone, Natural Language Processing, Social Aspects of Business, New Technologies in Education, Introduction to Learning Management System eFront, Cultural Studies). Supervision of Bachelor and Master theses at management, business-informatics and economics faculties.*

**Sept 2002 – 2005      Nizhny Novgorod State Pedagogical University, Nizhny Novgorod, Russia**

*Position: Lecturer.*

*Work in psychology projects, Curriculum development and teaching undergraduate courses (Educational Psychology, Experimental Psychology).*

## **MAJOR PROJECTS**

*2017-2018 Participation at scientific project "Online petition as a social and political mobilization frame (Russian and crosscultural perspectives)" supported by RFBR [18-011-00140](#) Functions: Data collection and preprocessing from [roi.ru](#) (Russian) and [change.org](#) (English, French, German, Russian)*

*2017 Participation at research project for Center of Sociological Studies "Analysis of partices of University involvement in solving regional development tasks in Russian Federation" Functions: Methodology development, Qualitative data analysis of semi-structured interviews, Writing report.*

*2016 Participation at scientific project "Problems of the cultural component in the Russian integration policy in the CIS countries: the challenges of identity and cultural extrusion" Functions: Data collection and preprocessing from Russian diaspora forums and Russian speaking forums).*

*2015-2016 Participation in SemEval 2016 contest (NRU-HSE team - [http://alt.qcri.org/semeval2016/task4/data/uploads/semeval2016\\_task4\\_results.pdf](http://alt.qcri.org/semeval2016/task4/data/uploads/semeval2016_task4_results.pdf)). Functions: Development of several functions responsible to Bayes calculations, using SentiWordNet Library and writing output of the project (Python).*

*2013-2015 Managing and data analysis for project: Using Twitter data for increasing accuracy of stock market forecast (R, Rapid Miner, Python). Development of methodology and data analysis using SVM, Random Forest, ARMA-GARCH models in Rapid Miner and R.*

*2014 Analysis of Web of science citation networks (Sci2, NetworkX). Creation of Python application providing coocurance analysis for citation graph parsed by Sci2.*

*2014-2015 Data analysis in for project No. 14-03-00617 "Regional Identity in the Conditions of Social and Economic Changes (on the example of the Nizhny Novgorod region in 2002 – 2014 years)", supported by Russian Foundation for Humanities 2014/2015 (R and Rapid Miner).*

*2008-2009 Data analysis (including structural equation modelling in EQS) and development of a web-site for cross-cultural project (Drupal)*

*1999-2002 Development of a computer-aided language learning program for Windows 98 (MS Visual Studio)*

## MAJOR PUBLICATIONS

1. **Porshnev**, Alexander. "Success Factors of Electronic Petitions at Russian Public Initiative Project: The Role of Informativeness, Topic and Lexical Information." In *Social Informatics*, edited by Steffen Staab, Olessia Koltsova, and Dmitry I. Ignatov, 11186:243–50. Cham: Springer International Publishing, 2018. [https://doi.org/10.1007/978-3-030-01159-8\\_23](https://doi.org/10.1007/978-3-030-01159-8_23).
2. Schmalz X., **Porshnev A.**, Marinus E. Evidence for two distinct parsing stages in nonword reading aloud: Evidence from Russian // *The Quarterly Journal of Experimental Psychology*. 2017. Vol. 70. No. 12. P. 2548-2559
3. **Porshnev A.**, Lakshina V. V., Редькин И. Е. Could Emotional Markers in Twitter Posts Add Information to the Stock Market Armax-Garch Model / NRU Higher School of Economics. Series FE "Financial Economics". 2016. No. WP BRP 54/FE/2016
4. **Porshnev Alexander V.**, Redkin Ilya E., Karpov Nikolay V. Modelling movement of stock market indexes with data from emoticons of Twitter users // In: *Proceedings of RuSSIR 2014 and the associated Young Scientist Conference* / D. I. Ignatov, N. Karpov. (Eds.), 2015.
5. Shashkin Pavel, **Porshnev Alexander**, Am I really happy when I write "happy" in my post? // M.Yu. Khachay, N. Konstantinova, A. Panchenko, D.I. Ignatov, G.V. Labunets (Eds.): *Analysis of Images, Social Networks and Texts. Fourth International Conference, AIST 2015, Yekaterinburg, Russia, April 9-11, 2015, Revised Selected Papers. Communications in Computer and Information Science*, Vol. 542, Springer
6. **Porshnev Alexander V.**, Redkin Ilya E. Analysis of Twitter users' Mood for Prediction of Gold and Silver Prices in the Stock Market // *Analysis of Images, Social Networks and Texts /Third International Conference, AIST 2014, Yekaterinburg, Russia, April 10–12, 2014, Revised Selected Papers* / Eds.: D. I. Ignatov, Mikhail Yu. Khachay and others, 2014. PP. 190-197, doi 10.1007/978-3-319-12580-0\_19
7. **Porshnev Alexander**, Kazakov Maxim. Possible Ways of Applying Citations Network Analysis to a Scientific Writing Assistant. In M. V. Batsyn, V. A. Kalyagin, & P. M. Pardalos (Eds.), *Models, Algorithms and Technologies for Network Analysis*. Springer International Publishing. 2014. PP.119-126, doi 10.1007/978-3-319-09758-9\_10
8. **Porshnev A.**, Redkin I. E., Shevchenko A. V. Improving prediction of stock market indices by analyzing the psychological states of Twitter users. / *Working papers by NRU Higher School of Economics. Series FE "Financial Economics"*. 2013. No. 22.
9. **Porshnev A.**, Redkin I. E., Shevchenko A. V. Machine learning in prediction of stock market indicators based on historical data and data from Twitter sentiment analysis. , in: *2013 IEEE 13th International Conference on Data Mining Workshops*. Los Alamitos : IEEE Computer Society Conference Publishing Services (CPS), 2013. Ch. 9.3. P. 440-444, doi 10.1109/ICDMW.2013.111