Ivan Bocharov

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Education

2015–Current	**PhD student**, *Eindhoven University of Technology*. Research in personalized probabilistic acoustic scene classifiers
2012–2014	**M.Sc.**, *National Research University "Moscow Power Engineering Institute"*, Moscow. with honours
2008–2012	**B.Sc.**, *National Research University "Moscow Power Engineering Institute"*, Moscow. with honours

Master thesis

title	*Linear and non-linear models in text classification tasks*
supervisors	D. Sc., Prof. Falk. V.N., Shagraev A.G., PhD

Bachelor thesis

title	*Resrach and development of automated classification algorithm for news articles*
supervisors	D. Sc., Prof. Falk. V.N., Shagraev A.G., PhD

Experience

Professional experience

Jan,2015–Aug,2015	**Software Developer**, *Rambler&Co*, Moscow. Web development
Jul,2013–Dec,2014	**Software Developer**, *Mail.Ru Group*, Moscow. GIS Development ○ Support and development of geosearch engine ○ Development of tile rendering engine
Aug,2012–Jun,2013	**Assistant**, *ISP RAS*, Moscow. Software verification

Student supervision

M.Sc. students	○ Ismail Senoz, *"Generative Probabilistic Models for Audio Textures"* - Daily supervision

Teaching experience

Jan,2015– **Algorithms**, *NRU "MPEI"*, Teaching assistant.
Aug,2015 Teaching string algorithms, search data structures (heaps, search trees). Creation of problem sets and grading using automated contester.

Sep,2014– **Graph theory**, *NRU "MPEI"*, Teaching assistant.
Jan,2015 Teaching practical aspects of graph theory. Creation of problem sets and grading using automated contester.

Sep,2013– **Software development**, *NRU "MPEI"*, Teaching assistant.
Aug,2014 Teaching tutorials weekly. Grading problem sets and quizzes.

Miscellaneous

Oct,2014– **Junior Researcher**, *NRU "MPEI"*, Moscow.
Aug,2015 Research in machine learning, neural networks, NLP

Languages

English TOEFL IBT (2014) 113/120
Russian Native

Computer skills

Programming Python, Julia, C++
languages

Typesetting LATEX, Microsoft Office
systems

DBMS PostgreSQL

Publications

[1] Ivan Bocharov, Tjalling J. Tjalkens, and Bert de Vries. Acoustic scene classification from few examples. In *2018 26th European Signal Processing Conference (EUSIPCO 2018)*, Roma, Italy, September 2018.

[2] Thijs van de Laar, Marco Cox, Ismail Senoz, Ivan Bocharov, and Bert de Vries. Forneylab: A toolbox for biologically plausible free energy minimization in dynamic neural models. In *2018 Conference on Complex Systems*, September 2018.

[3] Ivan Bocharov, Bert de Vries, and Tjalling Tjalkens. K-shot learning of acoustic context. In *Proceedings of Workshop Machine Learning for Audio Signal Processing at NIPS*, 2017.

[4] Alexey Shagraev, Ivan Bocharov, and V.N. Falk. Transductive learning and logistic regression. *Programmnye produkty i sistemi (Software and Systems)*, 2 (106):114–118, April 2014.

[5] Ivan Bocharov, V.P. Kutepov, and Pavel Shamal. Type checking system for functional programming langue FPTL. *Programmnye produkty i sistemi (Software and Systems)*, 2 (106):11–17, April 2014.