Curriculum Vitae

Polina Iamshchinina

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Nationality: Russian

Date of birth: 11.01.1989

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Education

• Free University Amsterdam, Faculty of Psychology and Education, 2014-2016

Research Master: Cognitive Neuropsychology (cum laude).

• Saint-Petersburg State University, Department of Psychology, 2008-2013

Cognitive Psychology.

Additional Education

• Radboud Summer School, Neurocomputational approaches to Decision-Making: From Perception to Social Cognition (August, 9-14, 2015)

• Brain diagnostics using Mitsar-EEG system (February, 10-28, 2014)

• Helsinki Summer School, Cognitive Neuroscience unit (August, 5-21, 2013)

• Scientific school: Methods of data processing in EEG/MEG. Applied aspects of magneto- and electroencephalographic neuroimaging (Moscow, April, 5-13, 2013)

• Neuroeconomics 2013: neurobiology of decision-making (Moscow, February, 2013)

• Saint-Petersburg State University – Winter School of Psychology, Cognitive Psychology track (Saint-Petersburg, February, 1-8, 2011)

• Moscow State University Exchange program (Moscow, September-February, 2010-2011)

• The 8th Annual New York – St. Petersburg Institute of Linguistics, Cognition and Culture (Saint-Petersburg, July—August, 2010)

Work experience

• Research position (August, 2017 - onwards) in Free University Berlin under supervision of Dr. Cichy.

• Research position (September, 2016 - December, 2016) in Charité Universitätsmedizin Berlin under the supervision of Prof. Haynes and Dr. Christophel.

• Research Assistant (June, 2016 - August, 2016) - Organizing scanning sessions and scanning participants for the study on eating disorders conducted by Dr. phil. Sabrina Strang, University of Lübeck.

• Research Assistant (2012 – 2014) – Working on research projects mentioned below, organization of workshops and seminars, coordination of scientific activity of postgraduate students held by the Department of Psychology (2012-2013);

• Tutoring students on Anatomy of Central Nervous System (Student Union of Saint Petersburg State University, 2012-2014)

Grants and Awards

• Travel Grant for attendance of International Convention for Psychological Science (March, 23 - 25, 2017)

• Humboldt Research Track Scholarship recipient (December, 2016 - May, 2017)

• Erasmus+ Scholarship 2016 for a research internship in the laboratory of Prof. John-Dylan Haynes, Berlin Center for Advanced Neuroimaging, Charite- Universitatsmedizin Berlin, Germany

• Berlin School of Mind and Brain: Travel Award 2015

• The VU Fellowship Programme (VUFP) recipient (2014-2016)

• Prize and honorary medal for the best degree work at the Department of Psychology, SPSU (September, 2013)

• Travel scholarship for outstanding students from Saint Petersburg State University used for attending Helsinki Summer School, Cognitive Neuroscience unit (August, 2013)

• Saint-Petersburg State University Award for Outstanding Students (November, 2012; April, 2013).

Programming skills

MATLAB (Psychtoolbox, SPM12, EEGlab), Python

Participation in research projects

• Decoding attended and unattended items in working memory: No evidence for activity-silent memory representations

under supervision of prof. J.-D. Haynes and Dr. Christophel

Charite Universitätsmedizin Berlin

My Master thesis focused on differential states of attention to working memory representations. The research question is whether there are different brain mechanisms for storage of attended and unattended items in working memory. I collected the data from 90 participants employing fMRI and used multivariate pattern analysis.

Published paper:

- Christophel, Iamshchinina, Allefeld, Yan & Haynes (in press). Cortical specialization for attended versus unattended working memory. *Nature Neuroscience*

• Do eyes reflect what people have learnt (2015-2016)

under supervision of prof. C.N.L. Olivers and prof. A. Belopolsky

Cognitive Psychology Department, Faculty of Behavioral and Movement Sciences, VU Amsterdam

During my first year of master Cognitive Neuropsychology track, I have completed a research internship. In several experiments I investigated differences in eye movement patterns to objects that needed to be memorized versus objects that did not need to be remembered. I ran several eye-tracking experiments and analyzed the data. Grade for the internship 8.0. During my second year of Master's programme, I did research on individual differences in working memory. Grade for the internship 9.5

• Psychophysiological correlates of inattentional blindness (2011-2014)

under supervision of Prof. M. Kuvaldina,

Faculty of Psychology, Saint-Petersburg State University, Russia

I investigated whether inattentional blindness occurs due to absence of awareness or to absence of attention to the unnoticed object. I conducted an ERP study differentiating processes of visual awareness and object-based attention within the inattentional blindness paradigm. I programmed the experimental

procedure in PsychoPy and analyzed physiological data in EEGlab. I was doing this research in collaboration with several laboratories (laboratory of the Institute of Human Brain, Russian Academy of Science, Higher Nervous Activity laboratory, Saint-Petersburg State University, and Psychophysiology laboratory, Higher School of Economics). Also I was participating in fMRI part of the project dedicated to exploring neuronal markers of inattentional blindness in visual object tracking task, where I was responsible for data analysis using SPM8.

Published abstracts:

- Pechenkova, E., Kuvaldina, M., Litvinova, L., Rumshiskaya, A., Iamshchinina, P., & Sinitsyn, V. (2015). Looking for neural correlates of sustained inattentional blindness with single trial per subject design in fMRI. *Journal of vision*, *15*(12), 447-447.

- Kuvaldina M., Pechenkova E., Rumshiskaya A., Litvinova L., Iamshchinina P. (2014). Unconscious Attention Allocation in Sustained Inattentional Blindness Task: fMRI Study. "Neurocognitive mechanisms of conscious and unconscious visual perception." In International Journal of Psychology, vol. 43, no. 3-4, pp. 740

- Kuvaldina, M. & Iamshchinina, P. (2013) Space-based Attention and Visual Awareness in Inattentional Blindness Task. Perception, 42 ECVP Abstract Supplement, 25

- Iamshchinina, P. & Kuvaldina, M. (2013) Visual Awareness in Inattentional Blindness Task. Methods of data processing in EEG/MEG. Applied aspects of magneto- and electroencephalographic neuroimaging, pp. 17-18

- Shelepin, Y., Kuvaldina, M., Harauzov, A., Vakhrameeva, O., Pronin, S. & Yamschinina, P. (2012) Investigation of the inattentional blindness for dynamic events as a result of saccadic suppression. Perception, 41 ECVP Abstract Supplement, 229.

In Russian:

- Kuvaldina, M. & Iamshchinina, P. (2013). Eye movements in dynamic paradigm of inattentional blindness. Journal of Saint-Petersburg University, 16 , 3-14

Conference talks and poster presentations:

- "Correlates of consciousness in inattentional blindness task". Talk at "History effects and attentional functions" workshop with Arni Kristjansson (University of Iceland, Reykjavik) in Saint-Petersburg State University, November, 2013

- "fMRI-study of dynamic inattentional blindness". Talk at the workshop "fMRI: science and practice" organized by Treatment and Rehabilitation Center of the Ministry of Health Care of Russia, April, 2014

• Factors inducing false memories (2011-2013)

Under supervision of Prof. V. Gershkovich,

Faculty of Psychology, Saint-Petersburg State University, Russia

Within this project I studied factors that bias participants towards developing false memories. In one of my experiments I investigated how misinformation affects participants' memories over time. I developed and programmed the experimental procedure in which participants engaged in a forced-choice task and could be later misinformed about their choice. To assess the factor of time I asked my participants to come several times. I collected the data from more than a hundred participants and also interviewed each of them after the experimental procedure. I analyzed data myself and I found that participants forget misinformation faster than their own memories. The results of the experiments were reported at different conferences and published in abstracts.

In Russian:

- Iamshchinina, P. (2013) The influence of choice criterion on decision making in misinformation condition. International Conference of Young Researchers "Lomonosov 2013", 1-3

- Iamshchinina, P. (2012) Interpretation of previously made choice induces false memory about it. Russian Scientific Conference "Experimental method in psychological knowledge", 328-333

- Iamshchinina, P. (2011). Aftereffects of choice blindness in preference task (using reproductions of famous paintings). Psychology-XXI: Proceedings of the International Conference for Young Researchers,

106-107

Conference talks and poster presentations:

- “Decline of misinformation effect over time: study with a forced-choice task”. Talk at a conference “Cognitive Science in Moscow: New Research” (Moscow, June, 16, 2015).

- “Influence of implicit and explicit learning on choice blindness susceptibility”. Talk at a workshop “Theoretical and applied aspects of cognitive psychology” in memory of Karl Duncker (Moscow, August, 3 - September, 4, 2013).