

Sofia Krasovskaya

Personal

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Education

- PhD programme 2018 - present
Higher School of Economics (Psychophysiology)
Supervisor: W. J. MacInnes
Thesis title: “Improvement of spatiotopic models of vision with retinotopic input and vector based saccadic generation”
- Master’s programme 2016 - 2018
Higher School of Economics (Cognitive Sciences and Technologies: from Neuron to Cognition)
Supervisor: W. J. MacInnes
Thesis title: “Deep Learning Neural Nets as a Model of Saccadic Generation”
- Bachelor of Linguistics 2009 - 2013
Moscow State Linguistic University
Supervisor: Tsibulya N. B.
Thesis title: THE CORRELATION BETWEEN PROSODIC AND NON-VERBAL MEANS IN CROSS-CULTURAL COMMUNICATION

Research Experience

- Higher School of Economics – Research Assistant
During the study period, I aided professor Joseph MacInnes in organizational issues, as well as data collection and eye-tracking research within the project for the creation of salient models of vision.
- Higher School of Economics – member of the ‘Attention, Computational Models and Eye Movements’ Research and Study Group’
Contributed to research regarding salience, Leaky integrate-and-fire algorithms and eyetracking.
- Higher School of Economics – member of the Vision Modelling Laboratory

Work Experience

Research Assistant Vision Modelling Lab, NRU HSE	2018 - present
<u>Sofia Krasovskaya</u>	
Foreign Affairs Manager, Interpreter “Moscow’s Media Dome” (former LLC “Synthesis”, Tesla.Place)	October 2014 – March 2016
Assistant International Events Manager “Moscow Raceway” Racetrack	March 2014 – October 2014
Analyst, Translator Construction and Design Bureau “Almaz-Antei”	August 2013 – November 2013
Translator (Freelance)	2009 – present
English language tutor (Freelance)	2010 – present

Conferences and Publications

- Poster presentation at the 40th European Conference on Visual Perception in Berlin, 2017:
- Krasovskaya, S. & MacInnes, W. J. (2017, August). Training restricted Boltzmann machines to generate human-like eye movements. Poster presented at the European Conference of Visual Perception 2017, Berlin, Germany. Retrieved from:
<http://journals.sagepub.com/page/pec/collections/ecvp-abstracts/index/ecvp-2017>.
- Poster presentation at the 41st European Conference on Visual Perception in Trieste, 2018:
- Krasovskaya S., [Zhulikov G.](#), [Merzon L.](#), [MacInnes W.](#) [Temporal distribution of saccades with deep learning salience maps](#), in: *41st European Conference on Visual Perception ECVF 2018*. Trieste, Italy: , 2018. (in press)
- [Merzon L.](#), [Zhulikov G.](#), [Malevich T.](#), Krasovskaya S., [MacInnes W.](#) [Temporal Limitations Of The Standard Leaky Integrate And Fire Model](#) / NRU HSE Publishing House. Series WP BRP "PSYCHOLOGY". 2018. No. 94/PSY/2018.
- Krasovskaya S., [Zhulikov G.](#), [MacInnes W.](#) [Deep Learning Neural Networks as a Model of Saccadic Generation](#) / NRU HSE Publishing House. Series WP BRP "PSYCHOLOGY". 2018. No. 93/PSY/2018.

Language Skills

Russian (mother tongue); English
(fluent);

French (intermediate);

Malay (elementary).

Computer and Technical Skills

- MatLab: created a deep-learning neural network for saccadic generation; knowledge of eyetracking experiment setup using Psychtoolbox; ability to perform debugging and data computation and analysis.
- R: basic knowledge of libraries; performing statistical analyses; working with arrays and data tables; creating projects in R Markdown.
- Java: currently in the process of learning. Basic knowledge of function creation in Eclipse; ability to write a small experiment with a division into trials; solving logical problems and working with strings; file reading and processing skills; basic drawing and animation skills using JPanel and Graphics2D.
- Amos: basic knowledge permitting to perform a confirmatory factor analysis.
- Eyelink eye-tracking software: able to calibrate and set up an eye-tracking experiment on human participants
- MatLab BrainStorm toolbox: basic knowledge of data preprocessing, artifact rejection, ERPs, induced activity analysis and source modelling.

Other Academic Achievements

- Participated and won the HSE Olympiad Competition for University Students and Graduates in 2016.

Other Interests

- I am a dedicated athlete and have participated in official state swimming and squash competitions in Malaysia. I am currently training for a powerlifting competition.
- I am a car enthusiast, and take satisfaction in building and improving my car in my free time.

