**Research fellow at the School of Psychology (Russian Postdoctoral Fellowship Programme)**

from 110,000 rubles (gross)

National Research University "Higher School of Economics"

Moscow

Required work experience: at least 3 years

Full-time

Term of work: 1 year with the possibility of extension for a second year

We, **the Higher School of Economics**, are one of the largest universities in Russia, a leading center for education, research and development. Today, HSE has more than 45,000 undergraduate and graduate students, more than 7,000 teachers, scientists and administrative staff.

Currently, we have an open competition for Russian Postdoctoral Fellowship Programme. Within the framework of the competition, a position of a **postdoc (researcher) at the School of Psychology** is available.

**Project name**: Computer models of top-down attention and eye movement control: the role of complex visual tasks.

**Project objective:** The postdoc will work specifically on the role of top down attention in realistic visual tasks. We effortlessly allocate our attention in every tasks like visual search, memorisation and foraging, and this allocation differs based on our goals and strategies. Our larger project is to model the interaction of top down and bottom up attention based on the theoretical proposal of a 'priority map', and the post doc will work on a subset of this project.

**Tasks of the project:**

Specifically, we are looking for a researcher with experience in vision, attention, and eye tracking to run experiments on a foraging task that will answer key questions for our theoetical and computational model. Since foraging requires a complex strategy to select many targets amongst many distractors, we get an excellent sample of how the bottom up salience of these items influence the top down selection strategies of the participants. The post doc will, a) design and implement new experiments on visual foraging b) collect data from both touch screen and eye tracking responses, c) analyze the data and d) work with other members of the lab to publish the results. If the candidate is also interested in computer modelling, there will also be an opportunity to collaborate on bringing the results to our computer modelling work.

**From successful candidates for this position we expect:**

* Russian citizenship;
* A degree (ученая степень кандидата наук, успешная защита кандидатской диссертации, степень PhD);
* Knowledge of some experiment software (Psychopy, psychophysics toolbox, Opensesame, etc);
* Knowledge of statistics, preferably R;
* Experience with English academic writing;
* Research in human vision, eye movements and/or attention.

**We offer:**

* Working place in the Vision Modelling Laboratory, Krivokillenii Ul. 3, Room 211, Moscow;
* Equipped workplace at the lab;
* Access to information resources, databases and electronic subscriptions of HSE University;
* Participation in scientific and educational events and programs of HSE University;
* Working in an international and interdisciplinary research team.