

Rick Farouni | Curriculum Vitae

Department of Psychology, The Ohio State University
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I am currently a doctoral candidate in quantitative psychology at the Ohio State University. I hold a master's degree in mathematical statistics. I have excellent skills in scientific computing and a strong background in machine learning, multivariate statistics, and Bayesian statistics. My research is focused on latent variable modelling and the statistical analysis of fMRI neuroimaging data. I am passionate about the open access movement in education, research, and academia and I am dedicated to rigorous science in the public interest.

Education

Academic Qualifications.....

- **The Ohio State University** **Ohio, USA**
PhD in Quantitative Psychology 2012–Present
Advisor: Professor Robert Cudeck
- **The Ohio State University** **Ohio, USA**
Master of Science in Statistics [GPA 3.80/4] 2012-2014
- **The Ohio State University** **Ohio, USA**
Master's Degree in Quantitative Psychology 2012-2014
Thesis Project: 'Latent Variable Modelling of Categorical Item Responses in a Hierarchical Bayesian Framework'
- **The Pennsylvania State University** **Pennsylvania, USA**
Bachelor's Degree in Psychology with High Distinction [GPA 3.93/4] 2011-2012

Course Projects.....

- **Multivariate Statistics** (STAT 7560): 'Retinotopic Mapping of the Human Visual Cortex Using Independent Component Analysis'
- **Advanced Computational Statistics** (STAT 7730): 'Bayesian Analysis of Noisy Images Using Markov Random Fields'
- **Statistical Consulting** (STAT 6750): 'Modelling Categorical Perception of Speech Sounds using Beta Regression'

Conference Presentations

- **Joint Statistical Meetings** **Seattle**
Poster Title: Across-Subject Predictive Modeling of fMRI BOLD Responses to Faces 2015

Awards and Fellowships

- **Graduate Student Conference Presentation Award** 2015
The Ohio State University
- **The Center for Cognitive and Brain Sciences Summer Graduate Fellowship** 2015
The Ohio State University

Project Proposal: 'Decoding the Pixels of the Face Image from the Voxels of fMRI BOLD Activity Patterns'

- **The Social and Behavioral Sciences Summer Fellowship**
The Ohio State University 2014
- **University Fellowship**
The Ohio State University 2012

Experience

Teaching Experience.....

- **Graduate Teaching Associate** Ohio, USA
The Ohio State University 2013–present
Teaching Assistant for Psychology 2220: Data Analysis in Psychology
- **Test Preparation Instructor** Moscow, Russia
Instructor of the Graduate Management Admission Test (GMAT) 2009-2012
- **Teacher of English as a Foreign Language** Moscow, Russia
Teacher of General and Academic English 2001-2009

Journal Review Service.....

- **Psychometrika**
Ad Hoc Reviewer 2015
- **Psychological Methods**
Ad Hoc Reviewer 2016

Programming and Software Skills

- **Programming Languages:** Proficient in numerical and statistical computing languages. Comfortable working with and transitioning between **Julia**, **R**, **Python**, and **Matlab** depending on computing goals. Strong command of probabilistic programming languages such as **Stan** and **Venture** (to a lesser extent). Experienced in training deep learning models on GPUs using **Caffe**, **MXNet**, and **Neon** frameworks. Experienced in using neuroimaging analysis software such as **Nipype**, **PyMVPA**, **FreeSurfer**, **Pycortex**, **SPM** and **FSL**.
- **Computing Tools and Software:** Experience with a variety of technologies such as \LaTeX , Linux OS, Git. Basic knowledge in website development tools such as HTML, CSS, and Jekyll.
- **Supercomputing:** Good knowledge of running numerical analyses on the Ohio Supercomputer Center's main clusters.

Personal Details

- **Country of Previous Residence:** Russia (12 years)
- **Marital Status:** Married
- **Interests and Hobbies:** Evolutionary Biology, World Cuisines, Experimental Music
- **Languages Spoken:** English, Arabic, Russian, Spanish (limited)