Rick Farouni | Curriculum Vitae

Department of Psychology, The Ohio State University

Fourth-year PhD student in quantitative psychology with a master's degree in statistics. Strong background in mathematical modelling, multivariate statistics, and Bayesian statistics. Strong technical and scientific computing skills.

Education	
Academic Qualifications.	
The Ohio State University PhD in Quantitative Psychology Advisor: Professor Robert Cudeck	Ohio, USA 2012-Present
The Ohio State University Master of Science in Statistics	Ohio, USA 2012-2014
The Ohio State University Master's Degree in Quantitative Psychology	Ohio, USA 2012-2014
Thesis Project: 'Latent Variable Modelling of Categorical Item Responses in a Hierarchical Bayesian Framework'	
The Pennsylvania State University Bachelor's Degree in Psychology	Pennsylvania, USA 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'	
Awards and Fellowships	

0	The Ohio State University Graduate Student Conference Presentation Award	2015
0	The Ohio State University The Center for Cognitive and Brain Sciences Summer Graduate Fellowship	2015
	Project Proposal: 'Decoding the Pixels of the Face Image from the Voxels of fMRI BOLD Activity Patterns'	
0	The Ohio State University The Social and Behavioral Sciences Summer Fellowship	2014
0	The Ohio State University University Fellowship	2012

Conference Presentations

Joint Statistical Meetings

Seattle

Poster Title: Across-Subject Predivtive Modeling of fMRI BOLD Responses to Faces

2015

Experience

The Ohio State University

Ohio, USA

Graduate Teaching Associate

2013-2015

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

Computing and Language Skills

Programming and Software Skills....

- **Programming Languages:** Proficient in numerical and statistical computing languages such as **Python**, **R**, and **Matlab**. Strong command of probabilistic programming languages such as **Stan**.
- Tools and Software: Experience with a variety of tools such as LATEX ,Linux OS, Git distributed revision control systems such as Github.
- **High Performance Computing:** Good knoweldge of running numerical analyses on the Ohio Supercomputer Center's main clusters.
- Web Technologies: Basic knowledge in using website development tools such as HTML, CSS, JQuery, and Jekyll.

Languages

Arabic: Native Proficiency.

o English: Primary Language.

• Russian: Professional Working Proficiency.

• Spanish: Limited Working Proficiency.

Research Interests

Quantitative

- Multivariate Statistics and Latent Variable Models
- Hierarchical and Nonparametric Bayesian Models

Methodological

- Multivariate Statistical Analysis of fMRI Activation Patterns
- Statistical Analysis of Neural Time Series Data

Substantive

- Neural Coding and Decoding: How information about the sensory environment becomes coded by neural activity in an increasingly abstract hierarchy of representations
- Object Recognition