

Rick Farouni | Curriculum Vitae

Department of Psychology, The Ohio State University

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🌐 <http://rfarouni.github.io/>

I am currently a doctoral candidate in quantitative psychology at the Ohio State University. I also hold a master's degree in mathematical statistics from OSU. I have excellent skills in scientific computing and a strong background in machine learning, multivariate statistics, and Bayesian statistics. My research is focused both on the statistical analysis of fMRI neuroimaging data and on nonparametric Bayesian modeling of longitudinal and time-series data in psychology.

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 *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 *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**
The Ohio State University *2015*

- **The Center for Cognitive and Brain Sciences Summer Graduate Fellowship**
The Ohio State University 2015
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**
Journal Peer Reviewer 2015
- **Psychological Methods**
Journal Peer Reviewer 2015

Computing and Language Skills

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**. Experienced in building deep learning models. Basic familiarity with statically typed programming languages such as Java.
- **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.

Languages.....

- **English, Arabic, Russian, Spanish** (limited)