Elena Khusainova

Yale University
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Education

Yale University 2014-2020
PhD in Statistics and Data Science
Advisors: David Pollard, Yihong Wu
Research interests: random matrices, random matrix eigenvalues properties, perturbation theory, respondent driven sampling, Markov chains, interpretable machine learning

Lomonosov Moscow State University (Russia) 2007-2012
Specialist (equivalent of MSc) in Mathematics, GPA 3.9, diploma with honors
Advisor: Andrey Zubkov
Thesis: Urn schemes and their applications: drawing from an urn with big variety of colors

Internship and work experience

Department of Statistics and Data Science, Yale University 2020-present
Lecturer
- taught Statistical Case Studies (S&DS 425), Intro to Stat: Data Analysis (S&DS 106), Data Analysis (S&DS 661) and YData: An Introduction to Data Science (S&DS 123)

AT&T Labs Research summer, 2018
Technical PhD Intern
- worked with big data: DIRECTV viewership
- introduced new visualization approach to reveal user behavioral patterns
- designed variables from raw data to capture viewer behavior
- classified and modeled behavior of TV viewers

Center for Science and Social Science Information, Yale University 2017-2019
Statistical Consultant
- supported researchers throughout the university in need of statistical analysis
- created and led monthly workshops for 30+ participants with various backgrounds

Moscow State 57th school (Russia) 2012-2014
High School Mathematics Teacher
- curriculum included: Linear Algebra, Calculus, Graph Theory, Mathematical Analysis

Collaboration experience

AT&T Labs Research 2018-present
Research project: Rule-based Classification for Positive, Negative and Ambiguous Cases
- developed a new algorithm addressing limitations of an older one
- independently built R package with implementation of both algorithms
- presented the work at Joint Statistical Meetings 2020

Environmental Performance Index, Yale University summer, 2015 and 2017
Data Programmer and Research Assistant
- scraped, analyzed and visualized data
- built an R Shiny visualization and data exploration tool for non-technical users

Linguistics Department, Yale University 2015-2016
Research project with professor Claire Bowern: Random Forest for Language Classification

Programming skills

R
Data analysis, visualization (ggplot, Shiny), web scraping, C/C++ interface, RCloud, working with big data

Python
Data analysis, visualization, web scraping

C/C++
Beginner

Interests

Indoor rock climbing, baking, learning German