

Elena Khusainova

Yale University
elena.r.khusainova@gmail.com
+1(203)843-4223

Education

- **Yale University** 2014-present
PhD in Statistics and Data Science (expected 2020)
Advisors: David Pollard, Yihong Wu
Research interests: *random matrices, random matrix eigenvalues properties, perturbation theory, respondent driven sampling, Markov chains.*
- **Moscow State University**, Russia 2007-2012
BSc and MS in Mathematics, GPA 3.9, diploma with honors
Thesis: *Urn schemes and their applications: drawing from an urn with big variety of colors*, with professor Andrey Zubkov.

Internship and work experience

- Technical Intern for AT&T Labs Research summer, 2018
Analysis of DIRECTV viewership data: modeling TV viewership and understanding evolution of viewing patterns.

Collaboration experience

- Statistical Consultant for Center for Science and Social Science Information, Yale University 2017-present
Statistical consulting in support of researchers from different departments; preparing and leading workshops.
- Project Assistant and Data Programmer for the Environmental Performance Index, Yale University summer, 2017
Data analysis and software design, visualization with R shiny.
- Research Assistant for Environmental Performance Index, Yale University summer, 2015
Data scraping, data analysis and visualization.
- Research project with professor Claire Bowern, Linguistics Department, Yale University 2015-2016
Random Forests for Language Classification.

Programming skills

- **R**
Data analysis, visualization (ggplot, Shiny), web scraping, basic C/C++ interface, writing R extensions, RCloud, working with big data.
- **Python**
Data analysis, visualization, web scraping.
- **C/C++**
Beginner.

Selected teaching experience

- Teaching assistant for:
 - Statistical Case Studies (S&DS 625a), Yale University fall, 2019
 - Statistical Computing (S&DS 662), Yale University spring, 2018
 - Advanced Probability (STAT 330b/600b), Yale University spring, 2017
 - Introductory Data Analysis (STAT 230a/530a), Yale University fall, 2016
 - Data Mining and Machine Learning (STAT 365b/665b), Yale University spring, 2016
- High School Mathematics teacher, Moscow State 57th school, Russia 2012-2014
Curriculum included: linear algebra, calculus, graph theory, mathematical analysis.

Other

- Languages:
 - Russian (native), English (fluent), German (basic).