

# Elena Khusainova\*

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## 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 Bower, 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).