Boğaziçi Üniversitesi Uçaksavar Kültür ve Spor Tesisleri Cengiz Topel Caddesi Etiler 34337, İstanbul ☎ 0506 9350022 ☑ oguzgurerk@gmail.com ☐ oguzgurerk.github.io

# Oğuz Gürerk

#### Education

2013-present B.Sc. in Mathematics with Honors, Boğaziçi University, Istanbul, Turkey.

Senior Project Supervisor: Ümit Işlak

Project Title: Outlier Analysis under Heavy Tails

2014-present **B.A. in Economics with Honors**, *Boğaziçi University*, Istanbul, Turkey.

01-05/2018 Exchange Program, McGill University, Montreal, Canada.

Courses taken: graduate stochastic processes, sp. topics in microeconomics,

honors econometrics II

#### **Research Interests**

Probability theory and related fields, nonparametric statistics, outlier analysis, random graphs, game theory, political economy of conflict

#### Working Papers

 A study on random permutation graphs, joint with Ümit Işlak and Mehmet Akif Yıldız; arXiv:1901.06678v1

#### In Preparation

- 1. Unfair trees and unfair permutation graphs, joint with Ümit Işlak and M. Akif Yıldız
- 2. A survey on Outlier Analysis

#### **Talks**

- $12/2018 \quad \textit{Concentration of Measure for Spheres}, \text{ student seminar at Boğaziçi University, Istanbul}$
- 10/2018 New perspectives on Outlier Analysis, IMBM Probability Days, Istanbul Center for Mathematical Sciences (IMBM), Boğaziçi University, Istanbul
- 07/2018 Stable Laws and the Generalized CLT, student seminar at Boğaziçi University, Istanbul
- 07/2018 Similarity Measures for Outlier Detection, student seminar at Boğaziçi University, Istanbul
- 12/2017 Outlier Analysis under Heavy tails: It's (mostly) Political, Senior thesis defense, Boğaziçi University, Istanbul
- 11/2017 Graph-theoretic Measures of Multivariate Association and Prediction, student seminar at Boğaziçi University, Istanbul
- 11/2017 An Unsupervised approach for Outlier Detection Methods, student seminar at Boğaziçi University, Istanbul

- 10/2017 Selected Topics in Outlier Analysis, 2. Spring Mathematics Meeting, Bilkent University, Ankara
- 10/2017 Basic Non-parametric Tests and Multivariate Generalizations, student seminar at Boğaziçi University, Istanbul
- 10/2017 Kolmogorov-Smirnov Test and its Multivariate Generalization, student seminar at Boğaziçi University, Istanbul
- 03/2017 Outliers, the Law of large Numbers, and Heavy Tails, 1. Spring Mathematics Meeting, Mimar Sinan University, Istanbul
- 01/2017 Outliers, Index of Stability, and Heavy Tails, The Nesin Mathematics Village, Şirince/Izmir
- 01/2017 Two lectures on "A simple model of herd behavior (Banerjee, 1992)", The Nesin Mathematics Village, Şirince/Izmir

#### Awards/Honors

- 2014-2018 2205-National Undergraduate Scholarship Programme, approx. USD 18.000
  - The Scientific and Technological Research Council of Turkey
  - > given to somewhat successful students
  - 06/2013 Ranked top 1.6percent among 2 million entrants at the University Entrance Exam in Turkey

#### Conference/Workshop Participation without Talk

- 06/2018 Workshop on Randomness in Complex Geometry and Complex Analysis, The Nesin Mathematics Village, Şirince/Izmir
- 02/2016 Combinatorial Algebraic Geometry Workshop, The Nesin Mathematics Village, Şirince/Izmir
- 06/2014 Annual Summer Workshop in Economics, Bilkent University, Ankara
- 07/2012 GAMES2012, The 4th Game Theory Congress, Bilgi University, Istanbul

#### Teaching Experience

Boğaziçi University, Student Assistant, Mathematics Department.

MATH 345 - Probability Theory, Summer 2018

MATH 344 - Statistics, Fall 2017

MATH 345 - Probability Theory, Summer 2017

## **Computer Skills**

R, C, C++, LaTeX

#### **Extra-curricular Activities**

My Personal Blog (or scratch) on methodology, ideology, aesthetics, and political economy: http://usavurmasanati.blogspot.com/

On summers through 2012-17

Voluntary service at The Nesin Mathematics Village

### Languages

Turkish (native), English (fluent), German (B1-level)

# References

- 1- Ümit Işlak, Associate Professor of Mathematics, Boğaziçi University, umit.islak1@boun.edu.tr
- 2- Ferit Özturk, Professor of Mathematics, Boğaziçi University, ferit.ozturk@boun.edu.tr
- 3- Serdar Altok, Associate Professor of Mathematics, Boğaziçi University, Scottsdale Collage serdar.altok@boun.edu.tr