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, inferential statistics, outlier analysis, random graphs, game theory, political economy of conflict

In Preparation

Employing moving averages to give mathematically rigorous definitions of types of outliers: The underlying idea relies on using distances between different order statistics.

Talks

- 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
- 11/2018 An Unsupervised approach for Outlier Detection Methods, student seminar at Boğaziçi University, Istanbul
- 10/2017 1-hour introduction to 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, umitislak@gmail.com
- 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