

Oğuzhan Yürük

Curriculum Vitae

23/06/1993, Bursa-TURKEY
Department of Mathematics, TU Berlin
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Education

2017–2020(Expected) **PhD Student in Mathematics, TU Berlin, Berlin, Researcher in Emmy Noether Junior**

Advisor : Timo de Wolff

2015–2017 **Master of Science in Mathematics, Central European University, Budapest.**

First of the class with GPA: 3.79

Jan 2014–Jun 2014 **Erasmus Exchange, Stockholm University, Stockholm.**

2011–2015 **Bachelor of Science in Mathematics, Bilkent University, Ankara.**

First of the class with GPA: 3.77

Masters Thesis

Title *A geometric relation between the roots and critical points of finite Blaschke products: Gauss-Lucas' theorem in hyperbolic geometry*

Supervisor Professor Róbert Szöke

Description An analogous result of Gauss-Lucas' theorem with hyperbolic geometrical setting and Blaschke products is proven in this thesis.

Awards-Grants

2019 SIAM Student Travel Award for SIAM AG19

2017 CEU Outstanding Academic Achievement Award

2015–2017 CEU Master's Excellence Scholarship

2014 Orhan Alisbah Award for Academic Excellency from Bilkent University Mathematics Department

2014 Erasmus Exchange Grant

2013 Vehbi Koç Foundation Full Grant for Undergraduate Studies

2011–2015 Full Tuition Scholarship from Bilkent University

Vocational Experience

2014–2015 **Grading Assistant, BILKENT UNIVERSITY, Ankara.**

Worked as a homework and quiz grader of the course MATH 124- Abstract Mathematics II

2013–2014 **Grading Assistant, BILKENT UNIVERSITY, Ankara.**

Worked as a homework and quiz grader of the course MATH 123- Abstract Mathematics I

- 2013–2014 **Grading Assistant**, BILKENT UNIVERSITY, Ankara.
Worked as a homework and quiz grader of the course PHYS 102- Physics II
- 2012–2013 **Grading Assistant**, BILKENT UNIVERSITY, Ankara.
Worked as a homework and quiz grader of the course PHYS 101- Physics I

Talks & Presentations

- July 2019 **SIAM AG19**, UNIVERSITÄT BERN, Bern, Switzerland.
Talk in Minisymposia on sparsity in polynomial systems and applications - *Initial Steps in the Classification of Maximal Mediated Sets*
- June 2019 **MEGA 2019**, UNIVERSIDAD COMPLUTENSE DE MADRID, Madrid, Spain.
Poster Presentation - *Initial Steps in the Classification of Maximal Mediated Sets*
- June 2019 **Workshop on Applied Algebra**, TU BRAUNSCHWEIG, Braunschweig, Germany.
Poster Presentation - *Initial Steps in the Classification of Maximal Mediated Sets*
- February 2019 **7th BMS Student Conference**, TU BERLIN, Berlin, Germany.
Contributed Talk - *An Experimental Classification of Maximal Mediated Sets*
- September 2018 **SFB TRR 195 Annual Meeting**, TÄJJBINGEN EBERHARD KARLS UNIVERSITY, TÄjbbingen, Germany.
Snapshot Talk - *An Experimental Classification of Maximal Mediated Sets*
- September 2018 **Turkish Mathematical Society Summer Schools for Graduate and Undergraduate Students**, NESIN MATHEMATICS VILLAGE, Izmir, Turkey.
Short Lecture - *Introduction to Convex Optimization*
- June 2018 **Summer School on Numerical Computing in Algebraic Geometry**, MPI MIS, Leipzig, Germany.
Poster Presentation - *An Experimental Classification of Maximal Mediated Sets*
- May 2018 **IB Days 2018**, TED BURSA COLLEGE, Bursa, Turkey.
Outreach Talk - *Questioning the Questioning*
- July 2015 **Turkish Mathemtical Society Summer School 2015**, NESIN MATHEMATICS VILLAGE, Izmir, Turkey.
Public talk - *Classification of Riemann Surfaces with Riemann-Roch Theorem*
- May 2015 **Senior project defense**, BILKENT UNIVSERSITY, Ankara, Turkey.
Calculating the Picard Number of Fermat Quartic Surface, supervised by Prof. Ali Sinan Sertöz
- December 2014 **Senior project defense**, BILKENT UNIVSERSITY, Ankara, Turkey.
Riemann-Roch Theorem and Its Applications, supervised by Prof. Ali Sinan Sertöz

Activities & Past Events

- July 2019 **SIAM AG19**, UNIVERSITÄT BERN, Bern, Switzerland.
- July 2019 **Trieste Algebraic Geometry Summer School - Algebraic Geometry Towards Applications**, ICTP TRIESTE, Trieste, Italy.
- June 2019 **MEGA 2019**, UNIVERSIDAD COMPLUTENSE DE MADRID, Spain, Germany.
- June 2019 **TES International Conference on Network Games, Tropical Geometry, and Quantum Communication**, ZUSE INSTITUTE BERLIN, Berlin, Germany.
- June 2019 **Workshop on Applied Algebra**, TU BRAUNSCHWEIG, Braunschweig, Germany.
- March 2019 **Spring School and Workshop on Polytopes**, RUHR-UNIVERSITÄT BOCHUM, Bochum, Germany.

- February 2019 **7th BMS Student Conference**, TU BERLIN, Berlin, Germany.
- October 2018 **Einstein Workshop Geometric and Topological Combinatorics**, FU BERLIN, Berlin, Germany.
- September 2018 **SFB TRR 195 Annual Meeting**, TÄIJBINGEN EBERHARD KARLS UNIVERSITY, TÄijbingen, Germany.
- August 2018 **Summer School on Numerical Computing in Algebraic Geometry**, MPI MIS, Leipzig, Germany.
- June 2018 **Summer School on Hyperbolic Polynomials, Sums of Squares and Optimization**, GEORGIA INSTITUTE OF TECHNOLOGY, Atlanta, GA, USA.
- June 2018 **A Frankfurt-Darmstadt Afternoon on Optimization**, GOETHE UNIVERSITY, Frankfurt am Main, Germany.
- May 2018 **Introduction Course to Algebraic Statistics**, FU BERLIN, Berlin, Germany.
- May 2018 **Combinatorics Day**, MPI MIS, Leipzig, Germany.
- March 2018 **Einstein Workshop on Discrete Geometry and Topology**, FU BERLIN, Berlin, Germany.
- February 2018 **Optimization Day**, MPI MIS, Leipzig, Germany.
- December 2017 **Berlin-Leipzig Seminars on Algebra, Geometry and Combinatorics**, TU BERLIN, Berlin, Germany.
- December 2017 **Open Source Computer Algebra Research**, MPI MIS, Leipzig, Germany.
- December 2017 **Geometrietag**, OTTO VON GUERICKE UNIVERSITY , Magdeburg, Germany.
- November 2017 **Berlin-Leipzig Seminars on Algebra, Geometry and Combinatorics**, FU BERLIN, Berlin, Germany.
- May 2017 **Antalya Algebra Days XIX**, NESIN MATHEMATICS VILLAGE, İzmir, Turkey.
- July 2016 **Turkish Mathematical Society Analysis Summer School**, BOGAZICI UNIVERSITY, İstanbul, Turkey.
- 2008–Present **Nesin Mathematics Village and Turkish Mathematical Society Summer Schools for Graduate and Undergraduate Students**, NESIN MATHEMATICS VILLAGE, İzmir, Turkey.

Organizational-Management Skills

- June 2019 **Co-organizer of Workshop on Applied Algebra**, TU BRAUNSCHWEIG, Braunschweig, Germany.
- 2012–2015 **Vice-President and the Founding Member of Student Club, Bilkent Mathematical Society**, BILKENT UNIVERSITY, Ankara, Turkey.

Computer skills

- Programming Languages PYTHON, JAVA, MatLab, R
- Other Useful Softwares L^AT_EX, Git