

Üzeyir Saçıkay

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Personal Info	Date of Birth: 2 November 1997 Nationality: Turkish
Education	Boğaziçi University, Istanbul, Turkey <ul style="list-style-type: none">B.Sc. in Physics 2017 - 2021Double Major in Mathematics 2018 - 2021 Combined GPA: 3.51/4.0 (High Honor), Graduated as the Valedictorian of Physics Department. B.S. in Physics, Bilkent University, Ankara, Turkey 2016-2017 Transferred to Boğaziçi University at the end of 1st year, GPA: 3.75
Research Experience	<ul style="list-style-type: none">Studied non-perturbative effects and Stokes phenomenon for one semester with Prof. Dieter Van den Bleeken under the elective course Phys 492: Introduction to Research in Physics.Studied representation theory of semisimple Lie algebras following the textbook Representation Theory: A First Course by Fulton & Harris for one semester with Prof. Arzu Boysal.
Job Experience	<ul style="list-style-type: none"><u>Data Scientist at Swarmnect</u>: I worked on Driver Behavior Analysis (DBA) problems, utilizing the on-board vehicle diagnostics data. 04/2022 - 09/2022<u>Software Engineer II at Trilogry Inc.</u>: I got hired through Crossover for Work and worked remotely as a software engineer under the role of Software Engineer II. I mainly worked on the backend service, did refactoring and bugfixes before the product is deployed. I used C#, TypeScript and SQL. 10/2021 - 12/2021
Scientific Events and Activities	I. Talks/Presentations Given <ul style="list-style-type: none">Neural Networks and Deep Learning, Summer 2022 Directed Reading Program (DRP) Turkey 2022, İstanbulSerre-Swan theorem, Fall 2021 Math 58D course at Boğaziçi University, İstanbulAlgebraic structure and properties of $C^\infty(M)$ and $\Gamma(TM)$, Fall 2021 Phys 58H course at Boğaziçi University, İstanbulA group mod its center, $G/Z(G) \cong \text{Inn}(G)$ and the universal cover of a Lie group mod its fundamental group, $G \cong \tilde{G}/\pi_1(G)$ quotient constructions, Fall 2021 Phys 58H course at Boğaziçi University, İstanbulManifold structure of projective spaces \mathbb{RP}^n and \mathbb{CP}^n, Fall 2021 Phys 58H course at Boğaziçi University, İstanbulRepresentation theory of semisimple Lie algebras, Spring 2020 Boğaziçi University, İstanbulIrreducible representations of $\mathfrak{sl}_2(\mathbb{C})$, Spring 2020 7th Bahar Mathematics Meeting, İstanbulHilbert spaces and Hermitian operators in Quantum Mechanics, Spring 2020 Math 436 course at Boğaziçi University, İstanbul

- Clifford algebras and spin groups, Math 58Y course at Boğaziçi University, İstanbul Fall 2019
- Spaces of constant curvature in Lorentzian signature, Math 474 course at Boğaziçi University, İstanbul Fall 2019
- Non-perturbative effects and Stokes phenomenon, Boğaziçi University, İstanbul Spring 2019
- Minimal surfaces, Math 475 course at Boğaziçi University Spring 2019
- On non-planarity of hypercube graphs Q_n for $n > 4$, Nesin Mathematics Village, Şirince/İzmir Summer 2017

II. Seminars, Workshops and Summer Schools Participated

- Khovanov Homology Student Workshop, Gökova Geometry Topology Institute, Muğla, Turkey Spring 2022
- Algebraic Geometry in the Time of COVID, Online, Ran by Ravi Vakil Summer 2020
- Lectures on Category-theoretical Formulations of Field Theories, IMBM, Boğaziçi University Fall 2019
- Introduction to Quantum Programming Workshop, Boğaziçi University, İstanbul Summer 2019
- The 2nd Geometry and Topology Summer School, Nesin Mathematics Village, Şirince, İzmir, Turkey Summer 2019
- Lectures on General Relativity: The Theory of Gravitation, Nesin Mathematics Village, Şirince, İzmir, Turkey Summer 2019
- International School of Subnuclear Physics (ISSP), Awarded Full Scholarship, EMFCSC, Erice, Sicily, Italy Summer 2019
- Introduction to Quantum Programming, Boğaziçi University Spring 2019
- 2nd Istanbul Theoretical Physics Days, Mimar Sinan Fine Arts University Physics Department, Istanbul Spring 2019
- Phase Transitions and Renormalization Group, Kadir Has University, Istanbul, One semester open-course by Prof. Nihat Berker Spring 2019
- Workshop on Complex analysis and Functional analysis, TMD Ankara, Middle Earth Technical University, Ankara Fall 2019
- Attended various Mathematics and Physics lectures at Nesin Mathematics Village every summer and winter between 2017-2019

Scholarships • Undergraduate Scholarship for Natural Science 09/2016 - 09/2020
Students awarded by TÜBİTAK Scientific Council

Language Skills Turkish: Native || English: Fluent (IELTS: 8/9) || French: Intermediate

Programming Skills Python || C/C++ || SQL || C# || MATLAB || TypeScript
Python Libraries: NumPy, pandas, scikit-learn, TensorFlow, keras, matplotlib, plotly

I participated in national olympiads in informatics during my high school years.