

Bilal Aytekin

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EDUCATION

Boğaziçi University , Istanbul, Turkey <i>Computer Engineering B.Sc., Mathematics B.Sc.</i>	2018–2023
University of Maryland <i>Mathematics, Ph.D.</i>	2023–

RESEARCH INTERESTS

Number theory, arithmetic geometry, formalization.

PUBLICATIONS

1. **An Alexandrov Topology for Maximal Cohen-Macaulay Modules** (w/ Mert Akdenizli, Baran Çetin, and Özgür Esentepe),
Journal of Pure and Applied Algebra, Volume 228, Issue 1

RESEARCH EXPERIENCE

Working Group on the Arithmetic of Elliptic Curves Supervisor: Mohammad Sadek, Sabancı University	June '22 – November '22 <i>Arithmetic Statistics</i>
Research on Arithmetic Dynamics Supervisor: Alp Bassa, Boğaziçi University	March '22 – June '22 <i>Arithmetic Dynamics</i>
Counting Varieties with Complex Multiplication Supervisor: Ayhan Günaydın, Boğaziçi University	October '21 – August '22 <i>Arithmetic Geometry</i>
Research Group on Cohomology Annihilators Supervisor: Özgür Esentepe, University of Leeds	September '21 – October '22 <i>Homological Algebra</i>

SERVICE

Grader for Introduction to Probability and Statistics for Computer Engineers, Fall '22.

Assistant for Graduate Algebra II, Fall '22.

Teaching Assistant for Calculus II (Fall '23, Fall '24), Calculus III (Spring '24).

TALKS

Local and Global Root Numbers of Elliptic Curves Summer School on Applied Arithmetic	June 10, 2022
Torsion Subgroups of Elliptic Curves Directed Reading Program Turkey Symposium 2021	September 12, 2021

REFERENCES

- Assoc. Prof. Alp Bassa, Boğaziçi University.
- Assoc. Prof. Ayhan Günaydın, Boğaziçi University.
- Dr. Özgür Esentepe, University of Leeds.