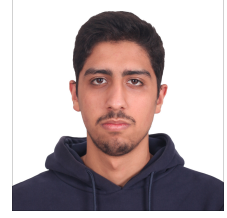


Muhammet Boran



Phone: +90 554 191 8647
Email Address: boranmet48@outlook.com
Google Scholar: [M.Boran-Scholar](#)
Linkedin: www.linkedin.com/in/MuhammetBoran

EDUCATION **Yildiz Technical University**, Istanbul, Turkey
B. Sc., Mathematics, GPA: 3.41/4.0 2020 - June 2024
Undergraduate Thesis: "Distribution of Primes in Arithmetic Progression: A Study on Dirichlet's Theorem" [Here](#)
Advisor: Prof. Dr. Murat Alan

RESEARCH INTERESTS Number Theory, Algebra, Analytic Number Theory, Algebraic Number Theory, Distribution of Prime Numbers.

ACADEMIC EXPERIENCES **Polymath Jr. REU** Undergraduate Research Student
Summer 2022 USA

- Number Theory Group under the supervisor Prof. Steven J. Miller.
- We did an investigation about a special arithmetic function which is v -palindrome.
- We characterized the conjecture "There is no prime v -palindrome."
- Works presented in the CANT 2023 conference and submitted the paper to conference proceedings.

TÜBİTAK REU Undergraduate Research Student
Nov 2022- April 2023 Sabancı University, Istanbul

- I did research about Real Zeros of Random Polynomials under the supervisor Assoc. Prof. Turgay Bayraktar.
- We tried to approximate the expected real zeros of standard normal distribution polynomials using the KAC integral formula.
- Research program supported by TÜBİTAK.

Polymath Jr. REU Undergraduate Research Student
Summer 2023 USA

- Number Theory Group under the supervisor Prof. Steven J. Miller.
- We did investigations about the "Sum of Powers of Primes" which related to the Prime Number Theorem and the Riemann Hypothesis.
- Our main purpose was to generalize the "Sum of Powers of Primes" into prime in arithmetic progression.
- We have submitted the paper and were presented at JMM 2024.

PUBLICATIONS	1. Muhammet Boran , Garam Choi, Steven J. Miller, Jesse Pruice, Daniel Tsai, " <i>Characterization of Prime v-palindrome</i> ", submitted to Springer (CANT) proceedings, (May 2023). Available at https://arxiv.org/abs/2307.00770	
	2. Muhammet Boran , John Byun, Zhangze Li, Steven J. Miller, Stephanie Reyes " <i>Sums of Powers of Primes in Arithmetic Progression</i> ", published in The PUMP Journal, 7 (2024), 29–50. Available at https://journals.calstate.edu/pump/article/view/3918	
	3. Chris Bisbels, Muhammet Boran , Garam Choi, Steven J. Miller, Jesse Pruice, Daniel Tsai, " <i>v-Palindromes: An Analogy to The Palindromes</i> ", submitted to The PUMP Journal (Oct 2023). Available at arxiv https://arxiv.org/abs/2405.05267 .	
TALKS	Combinatorial and Additive Number Theory Conferences (CANT) University of New York • Characterization of prime v -palindrome. See the slides presented in conference.	May 2023
	Join Mathematician Meeting (JMM) Boston • Investigations of v -palindromes and extensions to f -palindromes. See the slides presented in conference.	Jan 2023
	Join Mathematician Meeting (JMM) San Francisco Power Sums of Primes in Arithmetic Progression See the slides presented in conference.	Jan 2024
	Cahit Arf Fellowship November 2023-June 2024 <i>given by Turkish Mathematical Society</i>	TURKEY
	2247-C TÜBİTAK (Undergraduate Research Fellowship) November 2022-April 2023 <i>given by Sabancı University</i>	TURKEY
GRANTS, FELLOWSHIP, HONORS	Honor Student (Department of Mathematics) . <i>Yıldız Technical University</i>	TURKEY
	Turkey Mathematical Club (Türkiye Matematik Klübü) 2021 — 2022 • We're creating workshops about interesting areas in mathematics. See more details.	TURKEY
	Mathematics World (Matematik Dünyası) 2021 — 2023 • We write some of the old journals of the Matematik Dünyası on our website and make them easily accessible. See more details.	TURKEY
OTHER EXPERIENCES		
LANGUAGES	Kurdish (Native), Turkish (Native), English (Fluent) IELTS Academic 6.5.	
SKILLS	Java (intermediate), Phyton (Beginner), L ^A T _E X, Maple.	