Nurlan Gasimli

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ngasimli.github.io

RESEARCH INTERESTS

Algebraic and Differential Geometry, Hodge Theory, algebraic cycles and their applications in Algebraic Geometry, Ricci Flow, Minimal Surfaces and their applications in Differential Geometry.
Algebraic and Analytic Number Theory, Riemann Hypothesis, Langland's Program, Arithmetic of Elliptic Curves and Diophantine Geometry.

EDUCATION

University of Massachusetts Lowell — Lowell, MA
B.S. in Mathematics — Expected May 2024

AWARDS

Competition Winner — 2020

- 2nd Place in the UMass Lowell Mathematics Competition as a freshman, competing against junior and senior students among the entire undergraduate cohort.

International Scholarship — 2020

- Recognized with a $12,500 annual scholarship for academic excellence

EMPLOYMENT

University of Massachusetts Lowell — Lowell, MA
Research Assistant — Summer, 2021

- Collaborated on Ramsey Theory research under the guidance of Professor Daniel Glasscock.
- Focused particularly on quasi-arithmetic progressions and various aspects of integer Ramsey Theory.
- Explored topics such as topological dynamics and ergodic theory, with direct applications to Number Theory.

PUBLICATIONS & PREPRINTS

Ergodic Ramsey Theory: Piecewise Syndeticity Constant
Nurlan Gasimli, Daniel Glasscock
https://ngasimli.github.io/assets/ergodic_ramsey_theory.pdf

SKILLS

Language English, Azerbaijani, Turkish,
Programming Python

LEASURE INTEREST

Chess, Brain Ring Games