Nurlan Gasimli

nurlan_gasimli@student.uml.edu
ngasimli.github.io

RESEARCH INTERESTS

My research interests lie in Algebraic and Differential Geometry, where I focus on Hodge Theory, algebraic cycles, and their applications in Algebraic Geometry. In Number Theory, I explore topics such as the Riemann Hypothesis, Langland's Program, and the Arithmetic of Elliptic Curves.

Algebraic and Differential Geometry, Hodge Theory … (from the most important to the least)

EDUCATION

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

AWARDS

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

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

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 syndeticity, 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