Nurlan Gasimli

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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.

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 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