

Koo Kim

Class of "2026", RuamRudee International School

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Introduction

Energetic and enthusiastic math and computer science lover seeking a research internship in pure or applied mathematics and an opportunity to write a geometry textbook for high school and middle school students. I have experience creating research papers independently and assisting others in Pre-Algebra up to Calculus I. In my free time, I enjoy working on machine learning projects, programming software, and working on data simulations. I am eager to learn from experts in this field and eventually earn my PhD.

Education

- **RuamRudee International School** (11th Grade)
2024 - 2025 (Present)
Key Courses: AP Calculus BC, AP Physics I, AP World History: Modern, IB English Lang and Lit, Introduction to Computer Science, Real Analysis I (Outside of School), Linear Algebra (Outside of School)
- **TMI Episcopal** (9th - 10th Grade)
2022 - 2024
 - 9th Grade: UW-GPA: 3.96, W-GPA: 4.24
 - * Honors Geometry: A+, Honors Physics I: A, Honors English I: A, Honors History: A, The Hebrew Scripture: A+, Band I: A, Spanish I: A
 - 10th Grade: UW-GPA: 3.91, W-GPA: 4.27
 - * Honors Algebra II: A+, Honors Chemistry I: A, Honors English II: A, AP World History: A, Creative Writing: A+, Digital Music Composition: A+, Spanish II: A

Research and Work Experience

- **Independent Research in Mathematical Game Theory and Probability Problems**
Ongoing research exploring mathematical game theory and probability problems, with plans for independent publication.
- **Research Project with CrowdMath Organization by MIT Primes and Art of Problem Solving**
Contributing to a research project with CrowdMath, focusing on advanced mathematical problems.

Honors, Awards, and Achievements

- First Freshman to Solve Steiner Lehmus Theorem at TMI Episcopal
- First Person to Solve 9-Point Circle Theorem at TMI Episcopal
- Mastered Scholar Mathematics skills that can spark research and competition success

Extracurriculars and Community Service

- **RICE Summer Tapia Camp**
- **TMI Episcopal Innovation and Design Camp**
- **Learn to Be Mathematics Tutor**
- **Clubs:**
 - Robotics Club, Stock Market Club, Math Tutoring Club, Sports Marketing Club
- **Dorm Quality of Life Vice President**

Skills

- Mathematical Problem Solving (Game Theory, Probability, Geometry)
- Programming (Python, C++, Machine Learning)
- Data Simulations and Statistical Analysis
- Strong analytical, logical, and creative thinking skills

Languages

- English (Fluent)
- Korean (Fluent)

References

Available upon request.