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JEONG GYU IM

EDUCATION

MSci Mathematics, University College London

London, Sep 2019 – Present

- Expected First Class. Top 4% in 3rd year.
- Modules Include: Groups and Rings - 94%, Algebraic Number Theory - 91%, Galois Theory - 90%, Electromagnetism - 90%.

RESEARCH EXPERIENCE

Class Field Theory

London, Nov 2022 - Mar 2022

- Independently studied main results of Class Field Theory. Consequently applied the theory to prove Reciprocity laws and Inverse Galois Problem for D_{2n} .

Analytic Class Number Formula

London, Jul 2022 - Aug 2022

- Proved the analytic class number formula. Used the result in order to prove equivalent definition of Regular primes via Bernoulli numbers.

Iwasawa Theory

London, Sep 2022 - Dec 2022

- Studied new techniques and methods introduced by Iwasawa in 1950's. Proved Herbrand's Theorem and used Iwasawa's construction of p -adic L -functions in order to prove that class numbers of infinite extensions are well-behaved.

SOCIETIES AND EXTRA-CURRICULAR ACTIVITIES

Co-director of UCL Maths Colloquium

London, Aug 2022 – Jun 2023

- Organised and successfully launched the first UCL Integration Competition with over 20 students in attendance.
- Provided talks on various topics in Number Theory: Abelian extensions of $\mathbf{Q}(i)$, Impossible Geometric Constructions, Primes of the form $x^2 + 27y^2$, Projective Surfaces over Finite Fields etc.

Lead guitarist in UCL Live Music Society

London, Nov 2021 – Jan 2023

- Part of Rhapsody 2022 and 2023; role: Lead Guitarist for Van Halen medley.

WORK EXPERIENCE

Love Learning Tutors

London, Aug 2021 – Apr 2022

- Taught A-level Maths and Physics.

The Petite Coree

London, Aug 2021 – Dec 2021

- Worked in a kitchen as a kitchen porter.

SKILLS

Languages

- Russian (native), English (fluent), Korean (beginner)

Programming Languages

- Python (Intermediate)
- HTML, CSS, Javascript (Intermediate)
- LaTeX (Proficient)

Music

- Guitar (Proficient)