Inyoung Ryu riv520@tamu.edu

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Teichmuller Theory, Low-dimensional Topology, Geometric Group Theory

EDUCATION

Aug.2021 - Present Texas A&M University Ph.D. in Mathematics Texas, US Ulsan National Institute of Science and Technology(UNIST) Mar.2017 - Jul.2021Bachelor of Science in Mathematical Science Ulsan, Korea • Minor in Computer Science and Engineering • Awarded Academic Performance Scholarships for seven out of seven semesters • Total GPA of 3.99 / 4.3 (95.9 / 100)

RESEARCH/STUDY EXPERIENCES

Sabanci University

Exchange Student

Feb. 2022 - May. 2022Reading Course with Prof. Tian Yang Texas A&M University Texas, US

• Knot Theory. Jones Polynomial and Alexander Polynomial

Reading Course with Prof. Guoliang Yu Feb. 2022 – May. 2022 Texas A&M University Texas, US

• Higher index Theory

Interdisciplinary Project Sep. 2020 – Feb. 2021

Ulsan National Institute of Science and Technology

Ulsan, Korea

Feb. 2020 - Jun. 2020

Istanbul, Turkey

- Cooperating with Prof. Sun and two members to develop an understanding of Modular form
- Participating in the study of Modular curves as Riemann Surfaces
- Computed the dimension-counting formulas for spaces of modular forms, found the 1-dimensional specific cusp form space with the formula
- Seminars: 'The Structure of Elliptic Curves', 'Modular Curves as Riemann Surfaces', 'Introduction to Automorphic forms & orders of functions on Modular curves'

Undergraduate Research Assistant

Jul. 2019 – Aug. 2019

Ulsan National Institute of Science and Technology

Ulsan, Korea

- Cooperated with Prof. Jun to develop an understanding of Algebraic Topology
- Constructed an Atlas for Smooth Manifold and Computed Homology groups

Participated Conferences/Seminars/Forums

The South Central Topology Conference	Sep. 2021
Texas A&M University	Texas, US
Texas Geometry and Topology Conference	Feb.2022
The University of Texas at Dallas	Texas, US
Graduate Student Topology and Geometry Conference	Apr. 2022
Georgia Institute of Technology	$Georgia,\ US$
Arizona Winter School	Jan.2021- $Feb.2021$
	$Arizona,\ US$
International Congress of Mathematicians(ICM)	Aug. 2014
	Seoul, Korea

TEACHING EXPERIENCES

Teaching Assistant (Engineering Math I)

Texas A&M University

Aug. 2022 – Present Texas, US

- Had a class twice a week for Three sections (Total more than 100 students)
- Supplementary lecture and Q & A session
- Taught Python, Supported problem solving in lab sessions
- Graded quizzes & lab homeworks

Teaching Assistant(Calculus I, Calculus II)

Ulsan National Institute of Science and Technology

Mar. 2018 – Dec. 2019

Ulsan, Korea

- Supported problem solving in discussion sessions(approximately 100 students)
- Graded midterms & final exams

Calculus I Open Lecture

6/2/2018

Ulsan National Institute of Science and Technology

Ulsan, Korea

LEADERSHIP EXPERIENCES

Treasurer

Aug.2022 - May.2023

Association for Women in Mathematics (Texas A&M, 60 members)

Texas, US

- Women in Math Mentoring Lunch
- AWM peer mentoring program