Inyoung Ryu

riy520@tamu.edu

INTERESTS

Teichmuller Theory, Low-dimensional Topology, Geometric Group Theory

EDUCATION

Texas A&M University	Aug.2021 – Present
Ph.D. in Mathematics	*Texas, US*
Ulsan National Institute of Science and Technology(UNIST)	Mar.2017 – Jul.2021
Bachelor of Science in Mathematical Science	*Ulsan, Korea*

- Minor in Computer Science and Engineering
- Total GPA of 3.99 / 4.3 (95.9 / 100)

Sabanci University	Feb. 2020 – Jun. 2020
Exchange Student	*Istanbul, Turkey*

RESEARCH/STUDY EXPERIENCES

Reading Course with Prof. Tian Yang	Feb. 2022 – May. 2022
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

Reading Course with Prof. Irina Bobkova	Sep. 2022 – May. 2023
Texas A&M University	*Texas, US*

- Algebraic Topology, Stable Homotopy Theory

Interdisciplinary Project	Sep. 2020 – Feb. 2021
Ulsan National Institute of Science and Technology	*Ulsan, Korea*

- 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*

PARTICIPATED CONFERENCES/WORKSHOPS/SEMINARS

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
Winter school in singularities and low-dimensional topology	Jan. 2023
Rényi Institute	*Budapest, Hungary*

Workshop in Geometric Topology	Jun. 2023
Colorado College	*Colorado, US*
Summer School on Scissors Congruence, Algebraic K-Theory, and Trace Methods	Jun. 2023
Indiana University	*Indiana, US*
International Congress of Mathematicians(ICM)	Aug. 2014
	Seoul, Korea

Teaching Experiences

Teaching Assistant(Engineering Math I)	Aug. 2022 – Present
Texas A&M University	*Texas, US*
Teaching Assistant(Calculus I, Calculus II)	Mar. 2018 – Dec. 2019
Ulsan National Institute of Science and Technology	*Ulsan, Korea*
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