$\underset{\scriptscriptstyle{\text{riy}520@tamu.edu}}{\textbf{Inyoung}} \underset{\scriptscriptstyle{\text{Ryu}}}{\textbf{Ryu}}$

Interests

Character Variety, Mapping Class Groups and Teichmüller space, Teichmüller 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) Bachelor of Science in Mathematical Science	Mar.2017 – Jul.2021 Ulsan, Korea
 Minor in Computer Science and Engineering Total GPA of 3.99 / 4.3 (95.9 / 100) 	
Sabanci University Erasmus Program	Feb. 2020 – Jun. 2020 Istanbul, Turkey
Research/Study Experiences	
In Progress - Topology on Representation Spaces Texas A&M University	Nov. 2023 – Current Texas, US
Reading Course with Prof. Tian Yang Texas A&M University	Feb. $2022 - Oct. 2023$ Texas, US
 Teichmüller Theory and Nielsen-Thurston Classification Mapping Class Group and Teichmüller Space, Moduli Space Knot Theory. Jones Polynomial and Alexander Polynomial 	
Reading Course with Prof. Tian Yang Texas A&M University	Feb. $2022 - \text{May. } 2022$ $Texas, US$
 Mapping Class Group and Teichmüller Theory Knot Theory. Jones Polynomial and Alexander Polynomial 	
Reading Course with Prof. Guoliang Yu Texas A&M University	Feb. $2022 - \text{May.} 2022$ $Texas, US$
• Fredholm Operator and Higher index Theory	
Reading Course with Prof. Irina Bobkova Texas A&M University	Sep. $2022 - May. 2023$ Texas, US
• Algebraic Topology, Stable Homotopy Theory	
Low dimensional Topology Seminar Texas A&M University	Feb. $2022 - \text{May.} 2023$ $Texas, US$
 Smooth 4-Manifolds and Intersection Forms Teichmüller theory, Nielson-Thurston Classification 	
Interdisciplinary Project UNIST	Sep. 2020 – Feb. 2021 <i>Ulsan, Korea</i>
$\begin{array}{c} \textbf{Undergraduate Research Assistant} \\ \textit{UNIST} \end{array}$	Jul. 2019 – Aug. 2019 <i>Ulsan, Korea</i>

PARTICIPATED CONFERENCES/WORKSHOPS

PARTICIPATED CONFERENCES/WORKSHOPS	
Canaryfest - Moving to higher rank: from hyperbolic to Anosov	July. 2024
Grand Hotel St. Michele	Cetraro, Italy
AlMaRe Conference	July. 2024
Fourier Institute	Grenoble, France
Conference on Quantum Topology and Connections to Mathematical Phys	sics May. 2024
Texas A&M University	$Texas, \ US$
GIGEM Conference	April. 2024
Texas A&M University	Texas, US
Joint Mathematics Meeting (JMM)	Jan. 2024
Moscone Center	$California,\ US$
Winter School on Low-dimensional Topology and Related Topics	Dec. 2023
Institute for Basic Science	Pohang, Korea
Texas Geometry and Topology Conference.	Nov. 2023
Rice University	Texas, US
Conference on Characters and Moduli of Surfaces	Jul. 2023
Kyoto University	Kyoto, Japan
Summer School on Scissors Congruence, Algebraic K-Theory, and Trace N	Methods Jun. 2023
Indiana University	$Indiana,\ US$
Workshop in Geometric Topology	Jun. 2023
Colorado College	$Colorado,\ US$
Graduate Student Topology and Geometry Conference	Mar. 2022
Georgia Institute of Technology	$Georgia,\ US$
Winter school in singularities and low-dimensional topology	Jan. 2023
Rényi Institute	Budapest, Hungary
Graduate Student Topology and Geometry Conference	Apr. 2022
Georgia Institute of Technology	$Georgia,\ US$
Texas Geometry and Topology Conference	Feb.2022
The University of Texas at Dallas	Texas, US
The South Central Topology Conference	Sep. 2021
Texas A&M University	Texas, US
Arizona Winter School	Jan.2021-Feb.2021
University of Arizona	Arizona, US
International Congress of Mathematicians(ICM)	Aug. 2014
international Congress of Mathematicans (1014)	Seoul, Kored
Talks	20000,
Nielsen-Thurston Classification	Apr. 2024
GIGEM Conference, Texas A&M University	Texas, US
Mapping Class Group Action on Teichmüller Space	Apr. 2024
Graduate Student Organization Seminar, Texas A&M University	Texas, US
ΓEACHING EXPERIENCES	
Houston A&M Mothers' Club Outstanding TA Award	July. 2024
Texas A&M University	Texas, US
Teaching Assistant (Engineering Math II)	Jan. 2023 – May. 2023
Texas A&M University	$Texas,\ US$
Teaching Assistant (Engineering Math I)	Aug. 2022 – Dec. 2022
Texas A&M University	Texas, US
v	
Teaching Assistant (Calculus I. Calculus II)	Mar. Z010 = Dec. Z013
Teaching Assistant (Calculus I, Calculus II) Ulsan National Institute of Science and Technology	
Teaching Assistant (Calculus I, Calculus II) Ulsan National Institute of Science and Technology Calculus I Open Lecture	Mar. 2018 – Dec. 2019 <i>Ulsan, Korea</i> June.2018

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