## $\underset{\scriptscriptstyle{\mathrm{riy}520@tamu.edu}}{\mathbf{Inyoung}} \underset{\scriptscriptstyle{\mathrm{Ryu}}}{\mathbf{Ryu}}$

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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)	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
Erasmus Program	Istanbul, Turkey
Research/Study Experiences	
Topology on Representation Spaces	Nov. 2023 – Current
Texas A&M University	$Texas, \ US$
• On the number of connected components of $\operatorname{Hom}(\pi, G)$	
Reading Course with Prof. Tian Yang	Feb. 2022 – Oct. 2023
Texas A&M University	$Texas, \ US$
• 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	Feb. 2022 – May. 2022
Texas A&M University	Texas, US
• Mapping Class Group and Teichmüller Theory	
• Knot Theory. Jones Polynomial and Alexander Polynomial	
Reading Course with Prof. Guoliang Yu	Feb. 2022 – May. 2022
Texas A&M University	$Texas,\ US$
• Fredholm Operator and Higher index Theory	
Reading Course with Prof. Irina Bobkova	Sep. 2022 – May. 2023
Texas A&M University	$Texas,\ US$
• Algebraic Topology, Stable Homotopy Theory	
Low dimensional Topology Seminar	Feb. 2022 – May. 2023
Texas A&M University	$Texas,\ US$
• Smooth 4-Manifolds and Intersection Forms	
• Teichmüller theory, Nielson-Thurston Classification	
Interdisciplinary Project	Sep. 2020 – Feb. 2021
UNIST	Ulsan, Korea
Undergraduate Research Assistant	Jul. 2019 - Aug. 2019
UNIST	Ulsan, Korea

## ${\bf PARTICIPATED~CONFERENCES/WORKSHOPS/SEMINARS}$

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 Tra	ace 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.202
The University of Texas at Dallas	$Texas, \ Us$
The South Central Topology Conference	Sep. 202
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
	Seoul, Korea
Talks	
Mapping Class Group Action on Teichmüller Space	Apr. 2022
Graduate Student Organization Seminar, Texas A&M University	Texas, US
ΓEACHING EXPERIENCES	
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	$Texas, \ Us$
Teaching Assistant(Calculus I, Calculus II)	Mar. 2018 – Dec. 2019
Ulsan National Institute of Science and Technology	Ulsan, Kore
Calculus I Open Lecture	6/2/2018
Ulsan National Institute of Science and Technology	Ulsan, Kore
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