BYEONGSU YU

Texas A&M University - Department of Mathematics

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EDUCATION

Ph.D. in Mathematics Advisor: Dr. Laura Felicia Matusevich	Texas A&M University
M.Sc. in Mathematics Advisor: Dr. Woong Kook and Dr. Hyuk Kim (Co-advising)	Seoul National University
B.B.A. in Business Administration B.Sc. in Mathematics	Yonsei University

PUBLICATIONS

B.A. in Philosophy

 Standard pairs of monomial ideals over non-normal affine semigroups in SageMath Byeongsu Yu Submitted 	ď
 Standard pairs for monomial ideals in semigroup rings Laura Felicia Matusevich and Byeongsu Yu Submitted. 	ď
3. A study on establishing legal causation of collective hazardous substances cases in a statistical viewpoint 을 Dohyun Park and Byeongsu Yu 공익과 인권 (en: Public Interest and Human Rights), Vol. 15, pp. 209-261, 2015	ď

AWARDS & HONORS

>	Best Prize in Undergraduate Research Yonsei Univ. (Computational Science and Engineering)	ਛ Sep 2014
>	Award of Excellence in Economics Dissertation Contest Maeil Business Newspaper (Seoul, South Korea)	ਜ਼ Nov 2009

TALKS AND PRESENTATIONS

P(OSTERS Standard pairs for monomial ideals in semigroup rings • Algebra, Geometry and Combinatorics Day - XVIIII	• UIUC	ਜ਼ Mar 07, 202	∠ 20
T/->	ALKS Monomial ideals in affine semigroup rings CombinaTexas 2021	▼ Texas A&M Univ.	iii Feb 2021	ď
>	Monomial ideals in affine semigroup rings Graduate Algebra Symposium	• (Online)	⊞ Oct 2020	ď
>	Universal Property via Yoneda LemmaGraduate Student Seminar	Texas A&M Univ.	⊞ Nov 2019	
>	Generalized Ishida Complex • Algebra and Combinatorics Seminar	Texas A&M Univ.	⊞ Nov 2019	
>	Integrate $ xy(x+y) $ over \mathbb{Z}_p with Haar measure • Gathering in Graduate Expository Mathematics (GIGEM)	▼ Texas A&M Univ.	ਜ਼ Feb 2019	ď

>	Topological Data Analysis on Single-Nucleotide Polymorphism • Graduate Student Seminar	data ◆ Texas A&M Univ.	ਜ਼ Nov 2018	
>	Effective Resistance Preserving IsomorphismGraduate Student Seminar	▼ Texas A&M Univ.	ਜ਼ Oct 2017	ď
T.	EACHING & MENTORING			
>	Explorations in Mathematics (MATH 167) – Instructor Gave lectures via face-to-face and online simultaneously, w weekly office hours.	▼ Texas A&M Univ. = Fall rote lecture notes and 4 exam		eld
>	Business Calculus (MATH 142) – Instructor Gave lectures via face-to-face and online, wrote/graded 3 n weekly office hours.	Texas A&M Univ. Sum		
>	AWM Peer Mentor Peer-mentor for the first-year mathematics graduate studer bilities.	Texas A&M Univ.	·	'
>	Directed Reading Program Mentor Discussed weekly with an undergraduate mentee to study rwork.	•	of the undergraduate course	'
>	Engineering Calculus I/II (MATH 151/152) - Teaching Assistant		nmer(2nd) 2020, Fall 2019, nmer(2nd) 2018	
>	Wrote/graded weekly Python lab assignments and solution Functions, Trigonometry and Linear Systems (MATH 150) - Teaching Assistant Lead weekly recitation, wrote and graded biweekly quizzes.	▼ Texas A&M Univ.	ng 2021, Spring 2019, 2018	
>	Engineering Mathematics III (MATH 251) & Business Calculus (MATH 142) & Applied Algebra (MATH 433) – Grader	L IDV36 (\A,IVI I INIV	nmer 2019, Summer(1st) 201 ng 2018	18,
>	Graded (bi)weekly assignments or quizzes. Linear Algebra (MATH 304/311/323) - Help Session Tutoring undergraduate students about junior-level linear al	▼ Texas A&M Univ.	2017	
SI	ERVICES & OUTREACH			
Se	mbinaTexas 2021 ession Chair		= Feb 20-21, 2021	
	dent Working Seminar for Algebra and Geometry O-Organizer (w. Pablo Ocal)		ਜ਼ Fall 2020	ď
	nerican Mathematical Society Graduate Student Chapter		ii Fall 2019 - Spring 2020)
Stu	dent Working Seminar for Category Theory rganizer		■ Summer 2019 - Fall 20	ď
	mbinaTexas 2019 ession Moderator		ii Mar 23, 2019	

m Mar 26, 2018

🛱 Feb 3, 2018

d Oct 21, 2017

Integral Bee

Volunteer STEMFest

Volunteer

Volunteer Math Circle

High School Math Contest

BUSINESS EXPERIENCE

- - Squad leader for the human resource department of the headquarters of the 307 th independent artillery battalion.
 - Reported the quinquennial financial status of the battalion for the financial audit of the Korean Army Headquarters.

LANGUAGES

English, Korean			
LET _E X/TikZ			
Python, C, Macaulay2			
C++			