TEXAS STATE VITA

I. Academic/Professional Background

A. Name: Hongseok Chang Title: Ph.D.

B. Educational Background

Degree	*Year*	*University*	*Major*	*Thesis/Dissertation*
Doctor of Philosophy	*2015~ 2023*	*University of California-Irvine*	*Mathematics*	*Obstructions to the Extension of Vector Bundles*
Master of Science	*2015~ 2017*	*University of California-Irvine*	*Mathematics*	*Ph.D. Advancement: Extension of a Vector Bundle in the Formal Neighborhood*
Bachelor of Science	*2010~ 2014*	*Ateneo de Manila University*	*Mathematics*	*Undergraduate Thesis Paper: Introduction to the Congruent Number Problem*

C. University Experience: University of California – Irvine (September 2015 - June 2020, September 2022 – June 2023)

- Studied mathematics and performed graduate research as a Ph.D. student.
- Gave an advance to Ph.D. candidacy presentation “Extension of a Vector Bundle in the Formal Neighborhood”
- Wrote and submitted the paper “Obstructions of Extension of Vector Bundles” and adapted it as my Ph.D. Thesis/Dissertation.

II. TEACHING

A. Courses Taught: List of Courses Taught as a Teaching Assistant at UCI
   1) Math 2A: Single-Variable Calculus I
      a. Period: Fall 2016, Winter 2017
      b. Textbook: Calculus: Early Transcendentals 8th Edition by James Stewart
   2) Math 2B: Single-Variable Calculus II
      a. Period: Spring 2017
      b. Textbook: Calculus: Early Transcendentals 8th Edition by James Stewart
   3) Math 2D: Multivariable Calculus I
      a. Period: Fall 2017, Winter 2018, Spring 2018, Fall 2018
      b. Textbook: Calculus: Early Transcendentals 8th Edition by James Stewart
   4) Math 2E: Multivariable Calculus II
      a. Period: Winter 2019, Winter 2020

   b. Textbook: Calculus: Early Transcendentals 8th Edition by James Stewart
5) Math 3A: Introduction to Linear Algebra
   a. Period: Spring 2019
   b. Textbook: "Linear Algebra and its Applications" by David C. Lay
6) Math 4: Math for Economists
   a. Period: Summer 2017, Summer 2018, Summer 2019
   b. Textbook: Mathematics for Economics by Hoy, Livernois, et al.
7) Math 13: Introduction to Abstract Mathematics
   a. Period: Spring 2020
   b. Textbook: An Introduction to Abstract Mathematics by Neil Donaldson, Alessandra Pantano
8) Math 120A: Introduction to Abstract Algebra: Groups
   a. Period: Fall 2019
   b. Textbook: Abstract Algebra: Theory and Applications by Thomas W. Judson
9) Math 120B: Introduction to Abstract Algebra: Rings and Fields
   a. Period: Winter 2023
   b. Textbook: A First Course in Abstract Algebra, 7th Edition, by John Fraleigh
10) Math 121A: Linear Algebra I
   a. Period: Fall 2022
   b. Textbook: Linear Algebra Fourth Edition by Stephen H. Friedberg, Arnold J. Insel, Lawrence E. Spence

B. Courses Taught: List of Courses Taught as a Lecturer / Assistant Professor of Instruction at Texas State University
1) Math 1319: Mathematics for Business and Economics I
   i. Period: Fall 2023, Fall 2025, Summer 2026, Fall 2026
   ii. Textbook: Applied Mathematics for the managerial, life, and social sciences, Tan, 7th ed
2) Math 1329: Mathematics for Business and Economics II
   i. Period: Fall 2023, Spring 2025, Spring 2026
   ii. Textbook: Applied Mathematics for the managerial, life, and social sciences, Tan, 7th ed
3) Math 1300: Elementary Algebra
   i. Period: Spring 2024
   ii. Textbook: Using & Understanding Mathematics: A Quantitative Reasoning Approach 7th Edition by Jeffrey Bennett, William Briggs
4) Math 2471: Calculus I
   i. Period: Spring 2024, Summer 2024
   ii. Textbook: Calculus: Early Transcendentals 9th Edition by James Stewart
5) Math 1315: College Algebra
   i. Period: Fall 2024
   ii. Textbook: College Algebra 2e, 2nd edition by Jay Abramson et al.

6) Math 2321: Calculus for Life Science I
   i. Period: Fall 2024
   ii. Textbook: Calculus with Applications, 12th edition by Lial, Greenwell & Ritchey
7) Math 2393: Calculus III
   i. Period: Spring 2025, Summer 2025, Spring 2026
   ii. Textbook: Calculus: Early Transcendentals 9th Edition by James Stewart
8) Math 2472: Calculus II
   i. Period: Fall 2024, Spring 2025, Fall 2025
   ii. Textbook: Calculus: Early Transcendentals 9th Edition by James Stewart
9) Math 2417: Pre-Calculus Mathematics
   i. Period: Spring 2026
   ii. Textbook: Precalculus Pathways to Calculus by Marilyn P. Carlson, Alan O'Bryan, Michael Oehrtman, Kevin Moore
10) Math 2473: Integral Calculus with Multivariables and Series
   i. Period: Fall 2026
   ii. Textbook: Calculus: Early Transcendentals 9th Edition by James Stewart

III. SCHOLARLY/CREATIVE

B. Works Not in Print:

1. Invited Talks, Lectures, and Presentations: Joined and Participated on Multiple Algebra Study Group Learning Seminars (September 2015 – June 2023)

2. Other Works not in Print:

   a. Works "submitted" or "under review": "Obstructions of Extension of Vector Bundles", Submitted on October 01, 2022. https://arxiv.org/abs/2210.00195

   b. "Obstructions to the Extension of Vector Bundles": Thesis/Dissertation submitted to the UCI library as a requirement for the completion of the doctoral degree in June 2023. https://escholarship.org/uc/item/0rh6n4rh

   c. "Extension of a Vector Bundle in the Formal Neighborhood": Advancement to Ph.D. candidacy presented as a requirement for the completion of both the master's and doctoral degree.

   d. "Introduction to the Congruent Number Problem": An expository undergraduate thesis paper submitted as a requirement for the completion of the bachelor's degree.

IV. SERVICE

A. Institutional

1. University: Ateneo de Manila University
   A. Ateneo Mathematics Society (June 2010 - March 2014)
      i. Became a member and mostly engaged in the Math Tutoring Service Program offered to all university students.
   B. National Service Training Program (NSTP) (June 2011 - March 2012)
      i. Participated in the weekly math teaching program offered by the university during the sophomore year where university students visit high schools every Saturday to help students who need some help in math.

B. Community: Republic of Korea Army (August 2020 - February 2022)
   1. Completed the mandatory national military service for 18 months.