

MINSU KIM

University of North Georgia
Department of Mathematics
Last updated August 2021

Contact Information

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Education

Aug. 2011 **Ph.D. in Mathematics** with an Emphasis in Research in Undergraduate Mathematics Education, University of Oklahoma, Norman, OK
Dissertation: *Differences in Beliefs and Teaching Practices between International and U.S. Domestic Mathematics Teaching Assistants*

Feb. 2002 **M.S. in Mathematics**, Changwon National University, South Korea
Thesis: *Proving Theorem 2.3 of $ir(1)$ perfect graphs*

Feb. 2002 **A.A. in Preschool Education**, Changwon College, South Korea

Feb. 2000 **B.S. in Applied Mathematics**, Changwon National University, South Korea

Professional Experience

Fall 2016 – Present Professor, Department of Mathematics
University of North Georgia (UNG), Gainesville Campus, GA

Fall 2011 – Spring 2016 Assistant Professor, Department of Mathematics
University of North Georgia (UNG), Gainesville Campus, GA

Fall 2004 – Fall 2011 Graduate Teaching Assistant, Department of Mathematics
University of Oklahoma, Norman, OK

Honors and Awards

- February 2018 • I can read Mathematics but I cannot write Mathematics
UNG Presidential Innovation Award with a \$5,000 Grant
- October 2017 • **2017 UNG Innovative Use of Technology Award**
- February 2017 • A Strategic Combination of Blended Learning, Bloom's Taxonomy, and Learning OER Platforms in Math Classrooms
UNG Presidential Innovation Award with a \$5,000 Grant
- February 2016 • Implementing an Integrated Mathematics OER Platform in Blended Learning
UNG Presidential Innovation Award with a \$5,000 Grant
- Fall 2015 • [No-cost Replacement of the High Cost Required Materials for Four Mathematics Courses](#) (College Algebra, Pre-Calculus, Elementary Statistics, and Calculus II)
Affordable Learning Georgia Textbook Transformation with a \$21,200 Grant
(Dr. Minsu Kim, Dr. Hashim Saber, Dr. Bikash Das, Mr. Thomas Hartfield)
- November 2014 • WeBWorK for Improving Teaching and Learning Quality in Mathematics
UNG Presidential Innovation Award with a \$5,000 Grant (Dr. Minsu Kim and Dr. Thinh Kieu)
- **UNG Student Technology Innovation Grant** for \$1,000 (Dr. Minsu Kim and Dr. Thinh Kieu)
- January 2014 • Accepted two projects at the 2014 UNG Grants Academy, UNG
- November 2013 • Making Professional Connections: Constant Student-Generated Reviews Using Social Networking Services and Blogs in Calculus II
UNG Presidential Academic Innovation Award with a \$1,000 Grant
- March 2012 • Enhanced Learning in Mathematics for College Students through Preview Lectures Using Camtatis Studio, Smart Board, and Power-Point Technologies
GSC Innovative Teaching Award with a \$2,400 Grant
- December 2010 • Robberson Conference Presentation & Creative Exhibition Travel Grant, University of Oklahoma
- Graduate Student Travel Grant to the 2011 Joint Mathematics Meetings, New Orleans, LA, American Mathematics Society
- College of Arts and Sciences Student Research and Educational Travel Funding Grant, University of Oklahoma
- 2010 - 2011 • David C. Steed Arts & Sciences Sooner Heritage Scholarship, University of Oklahoma

- October 2010 • College of Arts and Sciences Student Research and Educational Travel Funding Grant, University of Oklahoma
- April 2010 • Harold Huneke Graduate Scholarship Award from the Department of Mathematics, University of Oklahoma
- April 2009 • College of Arts and Sciences Student Research and Educational Travel Funding Grant, University of Oklahoma
- 2000 – 2002 • Three national scholarships and one school scholarship, Changwon National University, South Korea
• Two scholarships, Changwon College, South Korea
- 1995 – 2000 • Four national scholarships and two school scholarships, Changwon National University, South Korea

Selected Publications, Conference Proceedings, & Projects

Kim, M.S. (2020). Implementing an Integrated Mathematics OER Platform in Blended Learning. *Proceedings of the 23rd Annual Conference of the Special Interest Group of the Mathematical Association of America on Research in Undergraduate Mathematics Education*

Kim, M.S., (2020). I can read mathematics but I cannot write mathematics. *Proceedings of the 32nd Annual International Conference on Technology in Collegiate Mathematics*

Kim, M.S., Hebda B., Graveman J., Hebda P. (2018). Investigating the Corequisite Model for Remedial Mathematics Courses. [*MathAMATYC Educator*, 9\(3\)](#). (Peer reviewed.)

Kim, M.S. (2018). Implementing an Integrated Mathematics OER Platform in Blended Learning. [*Proceedings of the 29th Annual International Conference on Technology in Collegiate Mathematics*](#), Chicago, IL.

Kim, M.S. (2016). Just-in-time Pedagogical Support in Co-requisite Remedial Models in terms of Student Learning, Mathematics Self-efficacy, and Achievement. [*IOSR Journal of Research & Method in Education*, 6\(5\)](#), 36-42. (Peer reviewed.)

Kim, M.S. (2016). Implementing Short-Format Podcasts for Preview on Mathematics Self-Efficacy and Mathematical Achievement in Undergraduate Mathematics. [*International Journal for Innovation Education and Research*](#), 4(5), 166-182. (Peer reviewed.)

Kim, M.S. (2014). The Effect of 5-Minute Preview Video Lectures using Smart Board, Camtasia Studio, and Podcasting on Mathematical Achievement and Mathematics Self-Efficacy. [*Proceedings of the 17th Annual Conference on Research in Undergraduate Mathematics Education*](#), Denver, CO. (Peer reviewed.)

Kim, M. S. (2014). A Comparison of Pedagogical Practices and Beliefs in International and Domestic Mathematics Teaching Assistants. [*Journal of International Students*, 4\(1\)](#), 74-88. (Peer reviewed.)

- Kim, M. S. (2013). Using a Flipped Classroom Strategy to Enhance Students' Performance in Mathematics through Innovative Technologies. [*Proceedings of the 4th Annual Dalton State College Teaching and Learning Conference*, 1\(6\)](#), 15-16, Dalton, GA. (Peer reviewed.)
- Kim, M. S. (2011). Differences in Beliefs and Teaching Practices between International and U.S. Domestic Mathematics Teaching Assistants. [*Proceedings of the 14th Annual Conference on Research in Undergraduate Mathematics Education*](#), 3, 82 – 87, Portland, Oregon. (Peer reviewed.)

Academic and Professional Activities

Fall 2016 – Fall 2018	Reviewer, the SIGMAA on Research Undergraduate Mathematics Education proposals
Fall 2017	Reviewer, Affordable Learning Georgia Textbook Transformation Grants: Round Ten
Fall 2013	Reviewer, the SIGMAA on Research Undergraduate Mathematics Education XVII proposals
Spring 2013 – Fall 2014	Reviewer, Journal of International Students

Research Presentations and Professional Involvement

March 2020	<ul style="list-style-type: none"> ICTCM conference, online
February 2020	<ul style="list-style-type: none"> The 23rd Annual Conference of the Special Interest Group of the Mathematical Association of America on Research in Undergraduate Mathematics Education, Boston, MA
April 2019	<ul style="list-style-type: none"> I can read Mathematics, but I cannot write Mathematics Presented at the Mathematics Department Colloquium, UNG
March 2019	<ul style="list-style-type: none"> What Happens When Students Read and Write Mathematics? Presented at the Research-Based Teaching Series, UNG
January 2019	<ul style="list-style-type: none"> Effectiveness of Adopting Open Educational Resource Platforms in Blended Learning Presented at the JMM conference, Baltimore, MD
November 2018	<ul style="list-style-type: none"> Attended the AMATYC conference, Orlando, FL
March 2018	<ul style="list-style-type: none"> Blended Learning with OER Platforms in Undergraduate Mathematics Presented at the ICTCM 2018 Conference, Washington, DC
November 2017	<ul style="list-style-type: none"> Attended the AMATYC conference, San Diego, CA

October 2017	<ul style="list-style-type: none"> • A Strategic Combination of Blended Learning, Bloom's Taxonomy, and Learning OER Platforms in Math Classrooms Presented at the Innovation in Teaching Conference, UGA
March 2017	<ul style="list-style-type: none"> • Implementing an Integrated Mathematics OER Platform in Blending Learning Presented at the ICTCM 2017 Conference, Chicago, IL
January 2017	<ul style="list-style-type: none"> • The right time and the right level utilizing learning OER platforms Presented at the Mathematics Department Colloquium, UNG
October 2016	<ul style="list-style-type: none"> • Implementing an Integrated Mathematics OER Platform in Blending Learning Presented at the Innovation in Teaching Conference, UGA
October 2015	<ul style="list-style-type: none"> • Effectiveness of Co-requisite Pedagogical Approaches Presented at the College of Education(COE) innovation in Teaching Conference, UGA • Attended the Research on Teaching and Learning SUMMIT at Kennesaw State University, GA • Attended the Grant Implementation and Training Kick-Off Event of Affordable Learning Georgia Textbook Transformation Grant at the Middle Georgia State University, Macon, GA
August 2015	<ul style="list-style-type: none"> • Adopting WeBWork Presented at the UNG Mathematics Department Colloquium, Gainesville campus, UNG • System-wide Co-requisite Pedagogical Approaches for Learning Support Mathematics Students Presented at the MAA MathFest 2015, Washington, DC
March 2015	<ul style="list-style-type: none"> • Making Professional Connections: Constant Student-Centered Reviews in Flipping Classrooms Presented at the ICTCM 2015 Conference, Las Vegas, NV
December 2014	<ul style="list-style-type: none"> • Math 1111 Pilot- Will Math 1111/0099 be a successful consolidation? Presented with Dr. Beata Hebda at the UNG Mathematics Department Colloquium, Gainesville campus, UNG
October 2014	<ul style="list-style-type: none"> • Making Professional Connections: Constant Student-Centered Reviews in Flipping Classrooms Presented at the 2014 COE Innovation in Teaching Conference, UGA
March 2014	<ul style="list-style-type: none"> • A Comparison of Pedagogical Practices and Beliefs in International and Domestic Mathematics Teaching Assistants Invited to present at the Faculty Research Colloquium, UNG

- Making Professional Connections through Constant Student-Generated Reviews Using Google Plus and Blogs in Calculus II
Presented at the Mathematics Department Seminar, UNG
- February 2014
 - The effect of 5-Minute Preview Video Lectures Using Smart Board, Camtasia Studio, and Podcasting on Mathematical Achievement and Mathematics Self-Efficacy
Presented at the SIGMAA on Research in Undergraduate Mathematics Education, Denver, CO
 - Making Professional Connections through Constant Student-Generated Reviews Using Google Plus and Blogs in Calculus II
Presented at the Research on Teaching and Learning Summit Conference at Kennesaw State University, GA
- January 2014
 - The effect of 5-Minute Preview Video Lectures Using Smart Board, Camtasia Studio, and Podcasting on Mathematical Achievement and Mathematics Self-Efficacy
Proposal accepted to present at the 2014 Joint Mathematics Meetings, Baltimore, MD
- March 2013
 - Using a Flipped Classroom Strategy to Enhance Students' Performance in Mathematics through Innovative Technologies
Presented at the 4th Annual Dalton State College Teaching and Learning Conference, Dalton, GA
 - Accepted a proposal at the Twenty-fifth Annual International Conference on Technology in Collegiate Mathematics, Boston, MA
 - Attended the Cengage Learning TeamUP Faculty Programs Mathematics Conference in Atlanta, GA
- February 2013
 - Enhancing Learning in Mathematics for College Students through Preview Video Lectures using Camtasia Studio, Smart Board, and PowerPoint
Presented at the Center for Excellence in Teaching and Learning conference, Kennesaw State University, GA
- January 2013
 - The Effect of Preview Video Lectures using Smart Board, Camtasia Studio, and Podcasting on Mathematics Achievement and Mathematics Self-Efficacy
Presented at the 2013 Joint Mathematics Meetings in San Diego, CA
- November 2012
 - Enhancing Learning in Mathematics for College Students through Preview Lectures using Camtasia Studio, Smart Board, and PowerPoint
Presented a paper at a workshop, University of North Georgia, Gainesville Campus, GA
 - Accepted a proposal at the Eagle Techxpo conference at Georgia Southern University, GA

- September 2012 • Enhancing Learning in Mathematics for College Students through Preview Lectures using Camtasia Studio, Smart Board, and PowerPoint
Presented at the Columbus State University Distance Learning Conference, GA

- March 2012 • Attended the Mathematical Association of America-Southeastern Section at Clayton State University, GA

- Attended the Cengage Learning TeamUP Faculty Programs Mathematics Conference in Atlanta, GA

- February –April 2012 • Co-Presenter at Maple Workshops, UNG-Gainesville, GA
- February 2012 • Attended the Center for Excellence in Teaching and Learning Conference at Kennesaw State University, GA

- Spring 2012 • Completed Teaching Excellence Preparation Program, UNG-Gainesville

- February 2011 • Differences in Beliefs and Teaching Practices between International and U.S. Domestic Mathematics Teaching Assistants
Presented at the RUME Conference in Portland, OR

- January 2011 • Differences in Beliefs and Teaching Practices between International and U.S. Domestic Mathematics Teaching Assistants
Presented at the 2011 Joint Mathematics Meetings in New Orleans, LA

- November 2010 • Differences in Beliefs and Teaching Practices between International and U.S. Domestic Mathematics Teaching Assistants
Presented in the RUME Seminar at University of Oklahoma

- October 2010 • Attended the NCTM 2010 Regional Conference and Exposition in Denver, CO

- January 2010 • Attended the 2010 Joint Mathematics Meetings in San Francisco, CA

- November 2009 • Mathematics Teaching Assistants Learning to Teach: Developing Teaching Practice as Interdependent Relationships with Peer
Presented in the RUME Seminar at University of Oklahoma

- October 2009 • Mathematics Teaching Assistants Learning to Teach: Recasting Early Teaching Experiences as Rich Learning Opportunities
Presented in the RUME Seminar at University of Oklahoma

- April 2009 • Teacher Education: A Conduit to the Classroom
Presented in the RUME Seminar at University of Oklahoma

- February 2009 • Attended the RUME Conference in Raleigh, NC

- October 2008 • Proposal for a Framework to Analyze Mathematics Education in Eastern and Western Traditions

Presented in the RUME Seminar at University of Oklahoma

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| December 2001 | • Winter Com2MaC Open School (Advanced Mathematics Course) at Pohang University of Science and Technology, South Korea |
| Jun 2001 | • Summer Com2MaC Open School (Advanced Mathematics Course) at Pohang University of Science and Technology, South Korea |
| Jun 2000 | • Summer Com2MaC Open School (Advanced Mathematics Course) at Pohang University of Science and Technology, South Korea |

Professional Certifications

- Teaching Excellence Preparation (TEP) program at Gainesville State College in April 2012
- Endorsement for Preparation for Teaching Undergraduate Mathematics from the Department of Mathematics at University of Oklahoma in April 2010
- Child Caretaker's Certificate (2nd class), South Korea
- Preschool Physical Education Coach's Certificate (2nd class), South Korea
- Preschool Teacher's Certificate (2nd class), South Korea

Teaching

❖ Courses Development

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| Fall 2014 – Fall 2016 | Co-requisite College Algebra (Math 1111 and Math 0999), UNG-Gainesville |
| Fall 2017 | Developed Syllabus and Homework Suggestions for College Algebra |
| Spring 2017 | Core Assessment for College Algebra |
| Fall 2011 | Problem Solving for Secondary Math Learning (Math 4000), UNG-Gainesville |
| Spring 2013 | A hybrid College Algebra (Math 1111), UNG-Gainesville |

❖ Courses Taught

Assistant and Associate Professor at University of North Georgia:

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| Fall 2011 – Present | Math 4200 | Introduction to Real Analysis I |
| | Math 3112 | Data Analysis for Early Childhood Education |
| | Math 3110 | Informal Geometry |
| | Math 2460 | Calculus II |
| | Math 2400/1401 | Elementary Statistics |
| | Math 2040 | Brief Calculus |
| | Math 2008 | Foundations of Numbers and Operation |
| | Math 1450 | Calculus I |
| | Math 1113 | Pre-calculus |
| | Math 1111 | College Algebra |
| | Math 1001 | Quantitative Skills and Reasoning |

Math 0999	Support for College Algebra
Math 0099	Intermediate Algebra
Math 0989	Foundations for College Algebra
Math 0097	Introductory Algebra

Graduate Teaching Assistant at University of Oklahoma:

2008 – 2011	Calculus and Analytic Geometry II Discussion (MA 2423)
	Calculus and Analytic Geometry I Discussion (MA 1823)
	Pre-calculus for Business, Life and Social Sciences (MA 1643)
	Introduction to Elementary Function (MA 1523)

Service

❖ Advisement

Spring 2019 – Fall 2019	81 Advisees, Computer Science Majors
Spring 2018 – Fall 2018	39 Advisees, Computer Science Majors
Spring 2017 – Fall 2017	159 Advisees, Computer Science Majors
Spring 2016 – Fall 2016	174 Advisees, Computer Science Majors
Fall 2015	78 Advisees, Computer Science Majors
Spring 2013 – Summer 2016	About 100 Learning Support Math Students Each Semester (Voluntarily)
Fall 2013 – Summer 2015	269 Advisees, Computer Science Majors
Fall 2015 – Present	Advisor for Mathematics Club, UNG-Gainesville
Spring 2014 – Spring 2015	Co-advisor for Mathematics Club, UNG-Gainesville
Fall 2013 – Fall 2014	Co-advisor for Phi Theta Kappa, UNG-Gainesville
Fall 2012 – Fall 2014	Co-advisor for Asian Student Association, UNG-Gainesville

❖ Committee Service

- Department Committees

Spring 2019	Math Search Committee Chair for two lecture positions, UNG-Cumming
Spring 2018	Post-Tenure Review Committee Chair, UNG
Fall 2017 – Spring 2018	Mentor for New Mathematics Faculty

Spring 2014 – Present	Course Coordinator for College Algebra, UNG
Spring 2015 – Present	Coordinator, Mathematics Tournament, UNG-Gainesville
Fall 2013 – Present	Website Editor, Mathematics Tournament, UNG
Spring 2017	Math Search Committee for tenured-track positions, UNG-Gainesville Math Grading Committee for a senior project, UNG-Gainesville
Fall 2015- present	Physical Set-Up/Hospitality Committee, Math Tournament, UNG-Gainesville
Fall 2015 – Fall 2016	Co-requisite College Algebra committee, UNG-Gainesville
Spring 2016	Math department senior project committee, UNG-Gainesville
Spring 2015	Arbitration and Physical Set-Up/Hospitality Committee, Math Tournament, UNG-Gainesville
Spring 2014	Course coordinator for College Algebra, UNG Co-coordinator, Mathematics Tournament, UNG-Gainesville Arbitration and Typing Committee, Mathematics Tournament, UNG-Gainesville
Spring 2013	Problem Writing Committee, Mathematics Tournament, UNG-Gainesville Grading Committee, Mathematics Tournament, UNG-Gainesville
Spring 2012	Problem Writing Committee, Mathematics Tournament, UNG-Gainesville Grading Committee, Mathematics Tournament, UNG-Gainesville

- ***School Committees***

Summer 2014	Biology Search Committee, UNG-Gainesville
Fall 2012 & Fall 2013	Organizational Committee for STEM Poster Session, UNG-Gainesville

- ***University Committees***

Fall 2019 – Spring 2021	Student Grade Appeals Committee (Faculty Senate)
Fall 2019 – Spring 2020	Technology Committee (Faculty Senate)
Summer 2019 – Present	A CTLL Faculty Fellow
Fall 2018 – Spring 2020	Leadership and Appointments Committee (Faculty Senate)
Fall 2018 – May 2019	A SoTL Academy Mentor
Fall 2014	UNG Presidential Semester Scholar Award committee
Fall 2013	Presidential Professional Engagement Committee, UNG
Fall 2012 – Spring 2013	Library and ACTT committee at UNG
	Proposal Review Committee, the Faculty-Undergraduate Summer Engagement (FUSE) program, UNG
Fall 2011 – Fall 2013	Representative during 5 semesters, the Open House, UNG-Gainesville

- National or International Committees

Fall 2017	Reviewer, Affordable Learning Georgia Textbook Transformation Grants: Round Ten
Spring 2014	Co-Chair, the 2014 International Workshop on Wireless Vehicular Network (WVN)

❖ Other Types

Fall 2012 – Spring 2013	Voluntary tutor at the Military Service Center at UNG-Gainesville
February 2013	Interviewer, Governor's Honors Program Interviews, GA

Professional Affiliations

Fall 2017 – Present	AMATYC - American Mathematical Association of Two-Year Colleges
2010 – Present	NCTM –National Council of Teachers of Mathematics
2004 – Fall 2018	MAA - Mathematical Association America
2009 - Fall 2018	SIGMAA on RUME - Special Interest Group of the MAA on Research in Undergraduate Mathematics Education