

Curriculum Vitae
ANGELA THOMPSON
Associate Professor of Mathematics Education
Governors State University
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Research Interests *My primary interest is in the intersection of language, culture, and mathematics in a classroom. Furthermore, I am particularly interested in providing resources and best practices for underserved populations of K-16 students and students who repeat mathematics courses. My research includes preservice and inservice professional development of the above, and activism in social justice and equity in mathematics education.*

Education

2012	Ph.D. Mathematics Education University of California, Santa Cruz
2023	M.S. Mathematics Chicago State University, Chicago
2001	M.Ed. Second Language Education Secondary Teaching Credential: Mathematics/Psychology University of Houston
1993	B.A. Psychology University of Colorado, Boulder

Academic Employment

2018-present, Associate Professor, Mathematics, Governors State University
2012-2018, Assistant Professor, Mathematics, Governors State University
2018-present, Director of First Year Mathematics
2014-2017, Coordinator Secondary Mathematics Education, Governors State University
2015-present, edTPA Coordinator, all content areas K-12, Governors State University
2014-present, edTPA scorer, Pearson
2006-2011, Research Fellow, NSF grant CEMELA¹, University of California Santa Cruz
2007, Consultant, TODOS/TI (Texas Instruments) project, Bakersfield, CA
2003-2006 Faculty English Lecturer, Chinese Culture University, Taipei, Taiwan

¹ National Science Foundation Grant for the Center for the Mathematics Education of Latinos/as

2004-2006 Faculty English Lecturer, National Yangming University, Taipei Taiwan
2000-2003 Secondary Mathematics/AVID teacher, Northbrook H.S., Houston, TX
1998-2000 Annenberg Research Fellow, University of Houston, Houston TX
1993-1994 Teacher Aide, Apollo High School, Glendale, AZ

Publications

- Thompson, A. (submitted). *Aftermath: Stories of people who struggled in math, but were successful in life*. The Journal of Mathematics and Science Education: Springer.
- Thompson, A., Hale, M., & Radosavljevic, A. (2020). Promoting bilingual mathematical practices in a classroom through modeling, roller coasters, and discourse. In L. de Oliveira & M. Civil (Eds.), *Teaching Mathematics to English Language Learners: Preparing Pre-Service and In-Service Teachers*. London: Palgrave Macmillan.
- Lawler, B.R., LaRochelle, R., & Thompson, A. (2017). Enhancing Activities in Mathematics Methods Courses to Achieve Sociopolitical Goals. In S. Kastberg, A. Tyminski, A. Lischka, & W. Sanchez (Eds.), *Building Support for Scholarly Practices in Mathematics Methods*. Charlotte, NC: Information Age Publishing.
- Thompson, A. & Radosavljevic, A. (2017). An Alternative Model of Online Mathematics Instruction to Promote Student Support. Proceedings of the 22nd Annual Asian Technology Conference in Mathematics, Taipei, Taiwan.
- Thompson, A. & Radosavljevic, A. (2015). Maximizing Algebra Access through Conversational Lecture and Tablet Technology. In A. Bright, H. Hansen-Thomas, & L. de Oliveira (Eds.), *The Common Core State Standards in Mathematics for English Language Learners: Grades 6-12*. New York: TESOL.
- Thompson, A. & Radosavljevic, A. (2014). Fostering Mathematical Discourse with Socratic Seminars. In M. Civil & E. Turner (Eds.), *The Common Core State Standards in Mathematics for English Language Learners: Grades K-8*. New York: TESOL, 81-94.
- Radosavljevic, A. & Thompson, A. (2013). *Mathematical Socialization through Game Activity: Common Core Standards for Mathematical Practice in an After-school club*. Proceedings of the 35th Annual North American Chapter of the Psychology of Mathematics Education Conference, Chicago, IL, 505-508.
- Thompson, A. (2012). *Teacher profiles and high school mathematics achievement: What do we know about the teachers of US Latino and ESL high school students?* Dissertation published by ProQuest.
- Thompson, A. (2012). *Using Large-Scale Assessment Data to Glean Teacher Characteristics that Predict Mathematics Achievement in Latinos/ESL*. Paper presented at the 36th Annual Psychology of Mathematics Education Conference, Taipei, Taiwan.
- Lin, Y.-C., Thompson, A., Kung, J.-T., Chieh, L.-W., Chou, S.-W., & Lin, J.-C. (2010). Functional isokinetic strength ratios in baseball players with injured elbows. *Journal of Sport Rehabilitation*, 19, 21-29.

Selected Other Creative Works

- Thompson, A. (2016). *Program Report for the Preparation of Secondary Mathematics Teachers, National Council of Teachers of Mathematics, Bachelor of Arts Mathematics Teacher Education*.
- Thompson, A. (2016). *Program Report for the Preparation of Secondary Mathematics Teachers, National Council of Teachers of Mathematics, Post-Baccalaureate*.
- Watters, M. & Thompson, A. (2016). *A Better Start: A Proposal to Revise the Governors State Early Start Workbooks*. Proposal dated March 4, 2016.
- Thompson, A. (2012). *Safe Spaces at GSU*. Proposal dated October 15, 2012 and updated January 14, 2014.
- Thompson, A. (2012). *Highly Effective Mathematics Instruction with Technology*. Proposal dated September 20, 2012.

Selected Conference Presentations:

- Manprisio, R.; Thompson, A., & Salam, M. (2025). *AI in Education: Addressing the Growing Divide and Ensuring Equity in the Digital Age*. To be presented at The Twenty-First International Conference on Technology, Knowledge, and Society, Changhua City, Taiwan, April 25.
- Thompson, A. (2024). *Narrative Research to Better Understand Students who Fail(ed)*. Presented at the Chicago Symposium Series, University Park, IL, February 23.
- Thompson, A., Manprisio, R., & Salam, M. (2024). *How Professional Development Helped Faculty Use AI for Good*. Poster presented at the NCTM Annual Research Conference, September 26.
- Thompson, A. (2024). *Refuting a Stereotype: Stories of Successful Taiwanese Adults Who Struggled With Mathematics*. Presented at the NCTM Annual Conference, September 26.
- Thompson, A. (2019). *Developing Freshmen Math without Developmental Math*. Invited poster presented at the Mathematical Association of America special interest group Research in Undergraduate Mathematics Education Annual Meeting, Oklahoma City, March 2.
- Coghill-Behrends, W., Kilpatrick, L., Palmer, E., Thompson, A., & Volgelgesang, K. (2018). *The <37 Panel: How does your institution support candidates who fail?* Presented at the annual IL-TPAC Conference, May 4.
- Thompson, A. & McCray, D. (2018). *Interpreting a Mass Spectrometry into Calculus*. Presented at the biannual Chicago Symposium Series, Chicago State University, March 2.
- Thompson, A. & Marrs, S. (2017). *Uncovering the Mathematics in Art Sculpture: A STEAM activity in your community*. Presented at the National Council of Teachers of Mathematics Regional Meeting, Chicago, November 30.
- Hale, M. & Thompson, A. (2017). *How to Reinforce Mathematical Concepts by Creating a Video Library for your Students*. Presented at the annual National Council of Teachers of Mathematics regional meeting, Chicago, December 1.
- Thompson, A. & Radosavljevic, A. (2017). *An Alternative Model of Online Mathematics*

- Instruction to Promote Student Support*. Presented at the 22nd Annual Asian Technology Conference in Mathematics, Taipei, Taiwan, December 17.
- Hale, M. & Thompson, A. (2016). *How to Create your own Khan Academy Style Video Library for your Classes*. Presented at the annual Metropolitan Mathematics Club of Chicago Conference, New Lenox, IL, February 6.
- Thompson, A. (2016). *Exploring Universal Design on Mathematics Exams with Writing Prompts*. Presented at the National Council of Teachers of Mathematics National meeting, San Francisco, April 15.
- Thompson, A., & Hale, M. (2016). *All Students Learn through Reflective Writing... On Exams*. Presented at the California Mathematics Council North, Asilomar, CA, December 1.
- Thompson, A. & Johnson, A. (2016). *Writing prompts on mathematics exams to promote Universal Design*. Presenting at the biennial TODOS: Mathematics for all conference, Phoenix, June 24.
- Thompson, A., Hale, M, & King, M. (2016). *Champions of edTPA: A discussion between faculty and edTPA graduates*. Presented at the annual Illinois Teacher Performance Assessment Consortium, Normal, IL, September 16.
- Thompson, A., Hale, M.; King, M., & Watters, M. (2016). *Co-Teaching Gen-Ed Mathematics Courses with Preservice Teachers*. Presented at the bi-annual Chicago Symposium Series, Chicago, IL, March 19.
- Thompson, A. (2015). *Mathematics Reading and Discourse Strategies for ELLs that work*. Presented at the National Council of Teachers of Mathematics Annual Meeting, Boston, April 17.
- Thompson, A. (2015). *Social Justice and Equity in Education: A discussion with Preservice Teachers*. Invited poster presented at the Scholarly Inquiry and Practices Conference for Mathematics Education Methods, Atlanta, October 1.
- Thompson, A., Johnson, A., & Smith, T. (2015). *Co-Teaching with your Preservice Teachers: A win, win, win*. Presented at the Annual Conference for the Advancement of Mathematics Teaching, Houston, June 25.
- Thompson, A. (2014). *Tablet PC as a learning tool for ELLs and struggling students*. Presented at the Chicago Symposium Series, Chicago, February 28.
- Thompson, A. (2014). *Tablet PC: Superior technology for ELLs and struggling students*. Presented at the National Council of Teachers of Mathematics Annual Meeting, New Orleans, April 10.
- Thompson, A. (2014). *Using a tablet to enhance learning for ELLs and struggling students*. Presented at the TODOS 2014 Beyond Awareness ~ Equity, Access and Achievement for ALL conference, Phoenix, June 27.
- Thompson, A. (2014). *Using a tablet to enhance learning for ELLs and struggling students*. Presented at the National Council of Teachers of Mathematics Regional meeting, Indianapolis, October 31.
- Willey, C., & Thompson, A. (2014). *Exploring Practices that Support the Common Core State Standards in Mathematics with English Language Learners*. Presented at the TODOS 2014

- Beyond Awareness ~ Equity, Access and Achievement for ALL conference, Phoenix, June 27.
- Radosavljevic, A. & Thompson, A. (2013). *Mathematical Socialization through Game Activity: Common Core Standards for Mathematical Practice in an After-school club*. Presented at the 35th Annual North American Chapter of the Psychology of Mathematics Education Conference, Kalamazoo, MI.
- Thompson, A. (2013). *What is a high-quality mathematics or science teacher?* Presentation at the Chicago Symposium Series, Chicago, IL.
- Thompson, A. (2013). *Using Socratic seminar to foster mathematics discourse for English language learners*. Professional development workshop facilitated for Plano School District #88.
- Thompson, A., & Radosavljevic, A. (2013). *Algebra Reasoning, Common Core Standards, and English Language Learners: Analyzing Motion Graphs*. Presentation at the National Council of Teachers of Mathematics Annual Meeting, Denver, CO.
- Thompson, A. (2012). *Exploring teacher profiles and secondary mathematics achievement of Latino/ELL students*. Paper presented at the American Educational Research Association, Vancouver, BC.
- Thompson, A. (2012). *Teacher profiles and high school mathematics achievement: What do we know about the teachers of US Latino and ESL high school students?* Paper to be presented at the 12th International Congress of Mathematical Education, Seoul, Korea.
- Thompson, A. (2012). *Using Large-Scale Assessment Data to Glean Teacher Characteristics that Predict Mathematics Achievement in Latinos/ESL*. Presentation at the 36th Annual Psychology of Mathematics Education Conference, Taipei, Taiwan.
- Thompson, A. (2012). *Mathematics discourse for English learners using Socratic seminar*. Presentation at the Metropolitan Mathematics Club of Chicago, Chicago, IL.
- Thompson, A., & Radosavljevic, A. (2012). *Your Contributions to Equity in STEM Education*. Presented at the Chicago Symposium Series, Evanston, IL.
- Thompson, A., Lopez Leiva, C., Radosavljevic, A., & Willey, C. (2011). *Mathematics education, language, and Latinos/as: Prospects for the future*. Presented at the Chicago Symposium Series, Chicago, IL.
- Thompson, A. (2010). *Mathematics discourse for English learners using Socratic seminar*. Paper presented at the National Council of Teachers of Mathematics Annual Meeting, San Diego, CA.
- Thompson, A., & Tellez, K. (2010). *Shaping the concept of academic language: A case study of five exemplary beginning teachers*. Paper presented at the American Educational Research Association, Denver, CO.
- Thompson, A. (2009). *Research using video as a metacognitive professional development forum for teachers*. Paper presented at the annual symposium of the Center for Mathematics Education of Latinos/as, Albuquerque, NM.

- Thompson, A. (2009). *Using Socratic seminar to foster mathematics discourse for English language learners*. Presented at the California Mathematics Council South, Palm Springs, CA.
- Thompson, A. (2009). *Using Socratic seminar to foster mathematics discourse for English language learners*. Presented at the California Mathematics Council North, Asilomar, CA.
- Thompson, A. (2009). *Using video as a metacognitive professional development forum for teachers*. Paper presented at the California Lesson Study, Asilomar, CA.
- Thompson, A. (2008). *Using video technology to provide a professional development forum for reflection on the use of academic language for mathematics in elementary school teachers*. Paper presented at the California Mathematics Council North, Asilomar, CA.
- Tellez, K., & Thompson, A. (2007). *Video equipment demonstration for use in PACT*. Paper presented at the 1st Annual PACT Meeting, Santa Barbara, CA.
- Thompson, A. (2005). *An historical account of ethics in biomedical technology*. Paper presented at the Biomedical and Ethics Symposium, Taipei, Taiwan.
- Thompson, A. (2002). *Using CBRs and CBLs in algebra instruction for ELLs*. Paper presented at the Conoco/Philips Summer Technology Conference, Houston, TX.

Selected Professional Development Participation:

- 2018 Regional Transitional Math Summit, sponsored by the South Metropolitan Higher Education Consortium and ISBE, South Suburban College, September 7.
- 2018 Reducing Remediation Workshop: Co-requisite Model. Workshop by IBHE at Illinois State University, September 24.
- 2018 Understanding and Designing for Equitable STEM Learning. Research presentation by Dr. Na'illah Nasir, President, Spencer Foundation, November 2.
- 2018 *Looking at my (real) world through mathematics: Memories and imaginaries of STEM learning*. Research presentation by Dr. Patricia Buenrostro, Learning Sciences Research Institute, University of Illinois Chicago, September 28.
- 2018 *Islamophobia: Identifying the Problem, Exploring Solutions*, all-day workshop presented by The Center for Middle Eastern Studies at the University of Chicago, February 17.
- 2018 *Access and Equity: Promoting High-Quality Mathematics Pre-K-12*, webinar presented on January 31 by authors Anthony Fernandes, Sandra Crespo, and Marta Civil
- 2017 *Academic Language and the edTPA*, webinar presented on Sept. 15 by IL-TPAC and Hundley, M.
- 2017 *New to the edTPA Coordinator Position*, webinar presented on Sept. 15 by IL-TPAC and Ragland, R., Bush, J., & Palmer, E.
- 2017 *New to the edTPA*, webinar presented on Sept. 15 by IL-TPAC and Ragland, R., McQuillin, J., & Snakenborg, J.
- 2017 *Black Minds Matter: A Focus on Black Boys and Men in Education*. Online course by Dr. J.L. Wood, San Diego State University, CA, 10/2017 to 12/2017.

2017 *IL-TPAC Summit*, Sept 11 at Northern Illinois University, IL.

2017 *Quality Support Workshop*, August 10-12 in Minneapolis, MN by AACTE.

2017 *Effective Teaching Model Using a Fully Digital Approach in Mathematics*, webinar presented on March 31 by Cengage.

2017 *Understanding and Redressing Intersecting Oppressions of Racism, Sexism, and Classism*, webinar presented on February 17 by the Great Lakes Equity Center, Indianapolis, IN.

2016 *Annual Nepantla Teachers Mini Conference*, DePaul University, August 5-6.

2016 Maker Lab 3 hour workshops: *Using Fusion 360*, Richton Park, IL.

2016 *edTPA Results Analyzer Training*, University of St. Francis, March 1.

2016 TODOS Webinar: *Our Questions and Their Discourse are the Keys to Their Engagement and Learning*, by Steve Leinwand.

2016 *Special Education edTPA: Lessons Learned* webinar by Dr. John Snakenborg.

2015 *CAEP webinar: Annual report for mathematics education*

2015 *Metropolitan Mathematics Club of Chicago* featuring Dr. Rochelle Gutierrez.

2015 *Implementing Social and Emotional Learning to Improve Student Achievement*, CASEL (the Collaborative for Academic, Social, and Emotional Learning), Governors State University.

2015 *Scholarly Inquiry and Practices Conference* for mathematics education methods, Atlanta, GA. Funded by a National Science Foundation grant, this invitation-only meeting resulted in an edited book published in 2017.

2015 *Smarter Balanced Performance Task Development Face-to-Face Meeting*, Chicago, IL.

2015 *Transforming Post-Secondary Education in Mathematics (TPSE)* annual meeting, by invitation only, Chicago State University, IL.

2015 *Safe Zones* Implementer and participant, Governors State University, IL.

2014 *Restorative Justice Drive-In Conference* Participant, Governors State University, IL.

2014 *Cultural Competence in working with LGBTQ Youth*. Participant, Chicago, IL.

2013 edTPA official Pearson scoring. Online participant.

2013 *How to Learn Math* by Jo Boaler. Stanford online course completed.

2013 *Best Practices in Co-Teaching with Marilyn Friend*. Participant, Chicago, IL.

2013 *Formative Assessment in the age of Common Core: What can we learn from SBAC and PARCC?* Online participant.

2004 *Advancement Via Individual Determination* Trained to lead an AVID program at Northbrook High School and to teach the curriculum of AVID. Oakland, CA.

Invited Presentations at Governors State University

- Manprisio, R.; Thompson, A., & Salam, M. (2024). *AI in Education: Addressing the Growing Divide and Ensuring Equity in the Digital Age*. Professional Development Workshop at Governors State University AI Summit II, October 30.
- Manprisio, R.; Salam, M.; & Thompson, A. (2024). *Using AI to Enhance Learning in your Classroom and Beyond*. Professional Development Workshop at the Governors State University AI Summit, March 22.
- Robinson, K., & Thompson, A (2024). Writing Recommendation Letters. Professional development workshop at the University of Illinois Chicago IRACDA group meeting, April 17.
- Thompson, A. & Radosavljevic (2022). Science Education Research Guide. Presented at the UIC-GSU IRACDA Program Retreat, August 26.
- 2018 *Teacher Panel*, sponsored by the Student Education Association & Kappa Delta Pi. Panelist on edTPA and first year teaching, September 18.
- 2018 *Careers and career paths in STEAM*. Panel moderator for a discussion sponsored by the GSU School of Extended Learning; April 6.
- 2015 *Getting Connected with edTPA* by Tellez, K. (University of California, Santa Cruz), & Thompson, A., March 12-13.
- 2014 *Redesigning a Midterm Exam using Universal Design*. Co-Presented at the 2014 GSU Faculty Summer Institute with GSU alumni: **Ty Acosta, Andrea Johnson, Tim Smith.**
- 2014 *How to analyze (and code) classroom video data like a qualitative researcher*. Co-Presented at the 2014 GSU Faculty Summer Institute with GSU alumni: **Ty Acosta, Andrea Johnson, Tim Smith.**
- 2014 *Isn't it Time to Use Universal Design?* Workshop co-presented to GSU faculty March 13.
- 2013: *edTPA academic language and video analysis*. Planned, designed, and facilitated this 90-minute workshop to assist students in understanding the Academic Language requirements and video analysis for edTPA. This presentation has been repeated in K-12 methods classrooms and seminars, 2013 to present.
- 2012 *Social Justice and Equity in Education*. Authored and facilitated this 90-minute professional development every semester for GSU preservice secondary teachers, 2012-2014.
- 2012 *Help! I have English learners and bilingual students! What should I do?* Authored and facilitated this 90-minute professional development every semester for GSU preservice secondary teachers. 2012-2014. It is now a part of a course I designed.

Professional Development Leader

2024-present Mini professional development each semester for all DSMT faculty.

2018 **Hale, M.** & Thompson, A. *How to Create your own Khan Academy Style Video Library for your Classes*. By special invitation: presented at the 2018 Northern Illinois Association of Teachers of Mathematics, Rockford, IL, April 19.

2016 Maximizing Algebra Access through Conversational Lecture and Tablet technology.

Authored and facilitated this one-hour webinar which is now recorded and available to the public. (See https://zoom.us/recording/play/LnU6FvkYHYZi81OU_B4P-Wr32KVfoYcg5e5JAEbz1YzXwQmwhLmTj4d_S_JofXPt).

- 2013 *Content Reading and Discourse for English Learners Using Socratic Seminar*. Authored and facilitated this 3-hour professional development for secondary teachers by invitation at Plano, IL district #88 and two Chicago Public School District middle schools.
- 2011 *Leadership for the Future of the Mathematics Education of Latin@s*, participant and presenter in a professional leadership development for CEMELA Fellows, Principal Investigators, and guests at UNC, Charlotte, NC.
- 2009 *Mathematics Games* Led K-2 teachers in educational mathematics games as a part of MBAMP (Monterrey Bay Area Math Program) Professional Development. Santa Cruz, CA.
- 2008 *Using Video as a Forum for Reflection on Academic Language in Mathematics Instruction*. Designed and conducted this two-year professional development series for local elementary school teachers of ELLs (English Language Learners). UCSC, Santa Cruz, CA.

Grants and Fellowships

- 2019-present National Institute of Health IRACDA grant (Co-PI and mentor).
- 2006-2011 National Science Foundation Graduate Research Fellowship: The Center for the Mathematics Education of Latinos/as, University of California, Santa Cruz.
- 1998-2000 Annenberg Fellow, University of Houston.

TEACHING EXPERIENCE

Courses Taught:

- MATH0999 Early Start Mathematics
- MATH1423 College Algebra
- MATH2100 Elementary Statistics
- MATH2281 Applied Calculus
- EDUC4301 Preservice Observations
- EDUC4470 Independent Study
- MATH8700 Independent Study
- CHEM4990 Chemistry Research
- CPSC8700 Computer Science Independent Study
- EDUC4360/6360 Principles of Secondary Mathematics Education
- EDUC4370/6370 Teaching Secondary School Mathematics
- EDUC4999 Student Teaching (Supervisor)
- MATH4080/6080 Critical Issues in Mathematics Education
- ENGL4080/6080 Special Topics in Secondary Education

BIOL4000/6000 Pedagogy for Diverse Students

CI404 Teaching and Learning Mathematics in the Urban Elementary Classroom (UIC)

Taiwan courses taught: English Conversation I, English Conversation II, English Composition II

High school courses taught: Algebra I, Extended Algebra I, Geometry, AVID

Courses Developed

Extensive and continuous revisions and curriculum development for EDUC4370/6370, MATH4080/6080, ENGL4080/6080, BIOL4000/6000 and EDUC4999 based on changing national and state required standards in secondary mathematics education, for the Illinois State Board of Education, and for CAEP, our accreditation affiliate. I proposed, authored, and designed courses MATH4080/6080, ENGL4080/6080, and BIOL4000/6000 to meet increased secondary requirements in content area reading, second language education, and socio-emotional learning in the state of Illinois.

RESEARCH EXPERIENCE

Principal Investigator *Enhancing High School Math Education: Integrating Artificial Intelligence for Improved Learning Outcomes* (2024). Co-designed empirical research for a master thesis by Ms. Andrea Johnson.

Principal Investigator *Emerging Classroom Practices from Professors new to AI*.(2024). Designed a study that includes two professional development workshops with related data collection and empirical research presentations and publications. In collaboration with Prof. Rich Manprasio and Prof. Mohammed Salam.

Principal Investigator *Aftermath: Stories of people who struggled in math, but were successful in life* (2023). Designed a study to collect narrative research data sufficient for a book, plus related empirical research publications and presentations.

Principal Investigator *An investigation of the struggles endured by women in mathematics careers*. (2022). Co-designed empirical research for a master thesis by Ms. Lana Mahairi.

Principal Investigator *Promoting bilingual mathematical practices in a classroom through modeling, roller coasters, and discourse*. (2019). Designed a study for an invited book chapter. Worked with GSU alum Michelle Hale, licensed mathematics teacher.

Principal Investigator *Interpreting a Mass Spectrometry into Calculus* (2017). Designed and authored an approved IRB to investigate the benefits to general education students of a student-led calculus application by a STEM undergraduate. To be presented at the Chicago Symposium Series, 2018. With Mr. **Dreyvon McCray**.

Principal Investigator *Effective Practices for Teacher Candidates Preparing to take the edTPA* (2015). Designed and authored an approved IRB to collect data from graduating teacher candidates about their experience completing the edTPA.

Principal Investigator *The Effects of Supplemental Instruction (SI) on the Post-Secondary Student* (2014). Co-designed and authored an approved IRB to investigate the benefits of Supplemental Instruction to students taking general education mathematics courses.

Results were presented in conferences any may be used as part of a GSU graduate student thesis. With Mrs. **Andrea Johnson**.

Principal Investigator *Analysis of using tablet technology for mathematics learning* (2014). Designed and authored an approved IRB to collect and analyze data on GSU students repeating calculus. Results were presented in conferences and in a book chapter.

Principal Investigator *Promoting Academic Language Development in Mathematics for English language learners with Socratic Seminar* (2013). Designed and authored an approved IRB to collect data in local area middle schools on using Socratic seminar. Results were presented in conferences and in a book chapter.

LMRI Research Grant (2009). Joined a team looking to analyze the use of academic language and the experiences of exemplary beginning teachers during their certification at one of several UC institutions. Results were presented as a symposium at AERA 2010 in Denver, Colorado.

Teaching Research Group (CEMELA) (2007-2012). CEMELA project: planned and conducted a series of professional developments for a group of local elementary school teachers on academic language and mathematics. Worked with Kip Tellez.

Consultant for the TODOS-TI California Task Force Writing Group (2007). Analyzed lesson plans and design suggestions for student activities using the TI Navigator that support the learning of ELLs and all students.

Student Learning Research Group (CEMELA) (2006). Investigated bilingual students' mathematical sense making in relation to linguistic, social, and material contexts surrounding a group problem-solving situation. Worked in collaboration with Judit Moschkovich, Tamara Ball, and William Zahner.

Research Assistant on an Annenberg Project Evaluation (1998-2000). Worked with Kip Tellez in conducting and transcribing interviews at a Houston middle school and assisted with coding and data organization.

THESIS CHAIR/READER

Johnson, Andrea (2025, projected). *Enhancing High School Math Education: Integrating Artificial Intelligence for Improved Learning Outcomes*. Project and presentation submitted in partial fulfillment of the requirements for the degree of Master of Science, Mathematics. (Chair)

Mahairi, Lana (2022). *An Investigation of the Struggles Endured by Women in Mathematics Careers*. Project and presentation submitted in partial fulfillment of the requirements for the degree of Master of Science, Mathematics. (Chair)

McKain, Matthew (2016). *Algebra tutorial for prospective calculus students*. Project and presentation submitted in partial fulfillment of the requirements for the degree of Master of Science, Computer Science.

Conte, Heather (2015). *Quantitative Urbanism: A look at Illinois cities using modeling*. Paper submitted in partial fulfillment of the requirements for the degree of Master of Science, Mathematics.

Ryba, Lauren (2015). *High impact strategies and the effect it has on students' mathematics attitudes*. Paper submitted in partial fulfillment of the requirements for the degree of Master of Science, Mathematics.

SERVICE

Service to Profession

2024 Hosted the Chicago Symposium Series at Governors State University, February 23.
2022-present Evaluator for Fullbright Fellowships in Taiwan
2021-present Leader of Chicago area COMMIT (Communities for Mathematics Inquiry in Teaching Network).
2019-present IRACDA Mentor for the GSU/UIC NIH-funded grant.
2017-2018 Illinois-TPAC State Conference Planning Committee
2014-2017 Elected Board Member of *TODOS: Mathematics for All*
2016 Smarter Balanced Assessment Consortium, invited as an ELL expert
2016 Planning Committee: TODOS 2016 Ensuring Equity and Excellence in Mathematics for ALL Conference
2015-2016 Chair of Logistics, *TODOS: Mathematics for All* biennial conference
2013-2014 Chair of Registrations, *TODOS: Mathematics for All* biennial conference
2014 Planning Committee: TODOS 2014 Beyond Awareness Conference
2013-present Planning Committee: Chicago Symposium Series
2014-present STEM Initiative Committee, Chicago Area Boy Scouts of America

Reviewer

2012-present International Journal of Mathematics Education
2012-present International Journal of Science and Mathematics Education
2012-2018 Teaching for Excellence and Equity in Mathematics
2013-present Psychology of Mathematics Education Conference Proposals
2013-2017 TODOS: Mathematics for All Conference Proposals

University Service

2024 Division of Personnel Committee -- DSMT
2023-present Grievance Committee, Chair
2024 Hosted AI Summit March 22
2024 Hosted AI Summit II October 30

2023-present Faculty Professional Development Committee
2019, 2022 Graduation Marshall
2019 Panelist; Governors State University Leadership Institute
2018-present Lower Division Steering Committee
2018-present Director of First Year Mathematics
2018 Hispanic Recruitment Committee
2017-2018 Institutional Policies Committee
2017-2019 Academic Calendar Committee
2016 DOE Vision 2020 Strategic Planning Committee
2015-2022 edTPA Coordinator
2014, 2015, 2016, 2018, 2020, 2021, 2023 Job search committee (Including positions for COE, DSMT-Math, DSMT-CS, and DSMT-IT.
2013-2015 Summer Bridge Committee
2013 Peer Tutoring Working Group
2013 Advisor, Gay Straight Alliance
2012-present member of the Professional Education Unit (PEU)
2012-present member of the Secondary Education committee, and the Secondary Education Student Progress Committee

Planning and implementation of the following GSU events:

2024 Chicago Symposium Series February 23
2024 AI Summit March 22
2024 AI Summit October 30
2022 IRACDA Annual Retreat
2015 Getting Connected with edTPA
2014 The History of Marriage Equality
2013-2015 Planning for Early-Start mathematics and English courses for incoming freshmen
2013 Illinois Unites for Marriage campaign
2013 Safe Zones Training
2013-present Implemented Supplementary Instruction with the GSU Academic Resource Center
2012 Closet Door Program (GSA 2012)
2012 LGBT Art Display and Event (GSA 2012)
2012 Hate Crimes Awareness (GSA 2012)

2012 LGBT film screening: *Gen Silent* (GSA 2012)

2012 Out in the Workplace (GSA 2012)

2012 International Education Week LGBTQ Table (GSA 2012)

Service to the College of Arts and Sciences

2017 Fulbright Scholar in Residence Task Force

2012-present Secondary Education Committee

2012-present Secondary Education Student Progress Committee

2012-13 Division Criteria Committee

Department Service

2020, 2021, 2023 IT job search committee

2013, 2014, 2015, and 2016 Mathematics job search committee

2012-present Mathematics departmental curriculum and planning committee

Professional Memberships

2006-2015: CEMELA The Center for the Mathematics Education of Latinos/as

2007-2018: TODOS: Mathematics for All

2007-present: PME: The Psychology of Mathematics Education

2008-present: NCTM: National Council for Teachers of Mathematics

2008-2016: AERA: American Educational Research Association

2008-present: CMC California Math Council

2011-present: ICME: The International Congress on Mathematics Education

2012-present: MAA: The Mathematical Association of America

2013-present: AACTE: The American Association of Colleges for Teacher Education

2014-2018: AMTE: Association of Mathematics Teacher Educators

2014-present: RUME: Research in undergraduate Mathematics Education

2014-2020: The Benjamin Banneker Association

2014-present: TESOL Teachers of English to Speakers of other languages

2015-present: IL-TPAC North Region Consortium (state-level edTPA)

2017-2022: MathEd Collective

Professional Certifications:

2003-present Texas Secondary teaching certificate for mathematics and psychology

2003-2006 Taiwan post-secondary renewable teaching license

Professional Experience

2024 Conference Host, Chicago Symposium Series, Governors State University

2018-present Director of First Year Mathematics, Governors State University

2015-2022 edTPA Coordinator, Governors State University

2014-2017 Elected Board Member of TODOS: Mathematics for All

2015-2016 Chair of Logistics, TODOS: Mathematics for All biennial conference

2013-2014 Chair of Registrations, TODOS: Mathematics for All biennial conference

2014-2017 Mathematics Education Program Coordinator, Governors State University

2009 TA for undergraduate course: Theories of Education, UCSC.

2005-2006 Editor, *Hwa Kang Journal of Teaching English as a Foreign Language*.

Technology

I use the following software and hardware as a regular part of my profession:

Microsoft Office (Word, PowerPoint, Excel, Access, and OneNote), Blackboard, TI-84 Smartview software, GoTo Meeting, Zoom, Google Docs, SPSS, StatCrunch, LiveText, Results Analyzer, a tablet PC, and MyMathLab. I also occasionally use Wolfram Alpha, Smartboard, Active Presenter, a Sony wireless microphone and other software and hardware.