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HIGHER EDUCATION EXPERIENCES

West College of Education, Midwestern State University, Wichita Falls, TX 2016 – Current

*Classes taught (**face-to-face classes and online classes**):*

Applied Research (EDUC 6753)

- | | | |
|---------------|---------------|---------------|
| • 2016 Fall | • 2019 Fall | • 2022 Fall |
| • 2017 Spring | • 2020 Spring | • 2023 Spring |
| • 2017 Fall | • 2020 Fall | • 2023 Fall |
| • 2018 Spring | • 2021 Spring | • 2024 Spring |
| • 2018 Fall | • 2021 Fall | • 2024 Fall |
| • 2019 Spring | • 2022 Spring | |

Intro to Educational Research (EDUC 5053)

- | | | |
|---------------|---------------|-------------|
| • 2016 Fall | • 2019 Spring | • 2021 Fall |
| • 2017 Spring | • 2019 Fall | • 2022 Fall |
| • 2017 Fall | • 2020 Spring | • 2023 Fall |
| • 2018 Spring | • 2020 Fall | |
| • 2018 Fall | • 2021 Spring | |

Teaching Mathematics-Middle/HS (EDUC 4073)

- | | | |
|-------------|-------------|-------------|
| • 2016 Fall | • 2018 Fall | • 2020 Fall |
| • 2017 Fall | • 2019 Fall | |

Teaching Math in Elem Sch (EDUC 4043)

- | | |
|---------------|---------------|
| • 2017 Spring | • 2018 Spring |
|---------------|---------------|

School & Society (EDUC 2013)

- 2017 Summer

University Supervisor-Clinical Teaching (EDUC 4166)

- 2019 Spring

Concepts of Math (GNMT 3003)

- | | | |
|---------------|---------------|---------------|
| • 2020 Spring | • 2022 Spring | • 2024 Spring |
| • 2021 Spring | • 2023 Spring | • 2025 Spring |

Classes assigned for Fall 2025:

- Intro to Educational Research (EDUC 5053)

Course Descriptions

*The goals for the **EDUC 5053** courses are to provide students the knowledge, skills, and dispositions necessary to read, understand, and appreciate research, and to write a literature review.*

*One of the goals for the **EDUC 6753** courses is to equip the students with the tools/methods to identify a researchable problem in their professional practice. The students will be able to design and implement an action research project to improve their practice. Further, the goals include enabling the students to understand and design informed consent to protect human subjects, empowering the students to analyze their data and derive empirical findings that inform their practice, and to ensure that the students know to effectively use APA (6th Edition) to format their research paper and bibliographic guide.*

The courses **EDUC 4043 and 4073** are part of Block A of the West College of Education's teacher preparation program. After the successful completion of the course, the students will be able to describe learning and thinking mathematics in their corresponding grade levels. The students will also be able to develop curriculum and use effective instructional planning skills to do so. The students will be able to develop appropriate assessment tools, use assessment data to design appropriate learning activities, and develop lesson plans that involve students in an active learning environment. Further, the students will be able to develop and implement effective teaching strategies, develop lesson plans/units that incorporate national standards and state standards in mathematics and technology applications, to develop and implement learning environments that utilize various teaching/learning strategies, and to develop learning activities that involve the infusion of technology.

EDUC 2013 is an introduction to education and the role of the schooling in society with an emphasis on educational equity for all students. The objectives for the course include preparing the students to explain and to give examples of how the changes in our country's political, economy, and ideology have affected public schools. The students will be able to build his/her personal educational philosophy based on information available to them from ancient times starting with Aristotle to present and from the contemporary influences. The students will be able to explain and give examples of instructional techniques effective for all learners, explain and give examples from the Texas Beginning Educator Support System (TxBESS), explain and give examples from the Texas Code of Ethics and Standard Practices for Professional Educators. Further, the students will be able to promote learner-centered instruction as preferable to teacher-centered instruction, to advocate for the desirability of equity in the classroom, and to promote for choices and differentiation assignments in the classroom. In addition, the students will be prepared to analyze the current educational issues from different perspectives.

Dr. Billie Doris McAda Graduate School, Midwestern State University **2016 – Present**
Adjunct graduate faculty member, 2016 – 2018.
Associate graduate faculty member, 2018 – Present

Tift College of Education, Mercer University, (Teaching Assistant) **2015 Spring Semester**
Higher Education Internship (Teacher Assistant) in Mathematics Content Class, EDMT621-Algebra for MGE/Sec Teacher. As part of the course requirement of the Ph. D. program at Tift College of Education, I had internship in teaching algebra content course to prepare middle- and high school- mathematics teachers for their educational career, in Dr. Jeffrey Hall's EDMT 621 Spring Semester.

Tift College of Education, Mercer University, (Graduate level Seminars) 2014 - 2015

Conducted Seminars for Graduate level courses on using student response systems to improve educational achievement, under the guidance of Dr. Karen Swanson, the director of Doctoral Program in Curriculum and Instruction.

Tift College of Education, (Research Methodology Classes) 2014 - 2015

As part of the Ph. D. program, led research methodology classes and developed APA style-templates for graduate students. Encouraged by Dr. Randolph, my research methodology professor, the paper presentation on *A practitioner's guide to propensity score matching* (see below in presentation section) was a productive outcome of assisting graduate level students to get a better understanding to use the statistical software, R in research methodology. Assisted in graduate level methodology seminars conducted as part of graduate courses.

EDUCATION

Mercer University, Atlanta, GA 2012 - 2015

PhD in Curriculum and Instruction (focused on mathematics)

Dissertation: *The effects of immediate feedback using a student response system on math achievement of eleventh grade students.*

University of West Florida, Pensacola, FL 2015 - 2018

M.S. in Mathematics and Statistics

(With learning experiences in BlackBoard Collaboration, SAS, SaTScan, SPSS, R)

Mercer University, Atlanta, GA 2010 - 2012

M. Ed. in Secondary Education (Mathematics)

Thesis: *The effects of applying integrated methodology of learning and math achievement.*

Mahatma Gandhi University, Kottayam, Kerala, India 1996 - 1997

B. Ed. in Secondary Mathematics Education

Mahatma Gandhi University, Kottayam, Kerala, India 1989 - 1992

B. Sc. in Mathematics

TEACHING CERTIFICATE / ENDORSEMENTS

Georgia Professional Standards Commission 2007-Present

Georgia Educator Certificate, Level: 7; Mathematics (6-12 grades) [FLD743] – Type SRT;
Gifted In-Field [FLD881] – Type SRT

College Board Advanced Placement Program 2011

AP Calculus AB Teaching Endorsement

K-12 TEACHING EXPERIENCES

Norcross High School, Gwinnett County Public Schools, GA **Current since 2021**
Mathematics Teacher (*Gifted Teaching Endorsement*), Accelerated Precalculus, Geometry.

Alcovy High School, Newton County Public Schools, Covington, GA **2010-2016**
Mathematics Teacher (*Gifted Teaching Endorsement*), Precalculus Content Leader

CCGPS Accelerated Pre-Calculus (*Gifted Students*), CCGPS Advanced Algebra, GPS Accelerated Math 3 (*Gifted Students*), GPS Math 2, GPS Math 2 Support, GPS Math 3, GPS Math 3 Support, GPS Math 4, Algebra 2, Geometry.

Forest Park High School, Clayton County Public Schools, Forest Park, GA **2007-2010**
Mathematics Teacher.

Algebra 1, Algebra 2, Algebra 3, Geometry, GPS Math 2, GPS Math 2 Support

St. John De Britto's Anglo Indian High School, Cochin, Kerala, India **1997-2007**
Mathematics Teacher.

High School Mathematics (Algebra, Geometry, Analytic Geometry, Statistics), Information Technology (Programming languages, Database management), English Language, Physics.

PUBLICATIONS

Peer-reviewed journal publications

- Kureethara Manuel, A. (2020). Immediate Feedback Using Student Response System. *The International Journal of Humanities & Social Sciences*, 8(3), 254–260.
- Kureethara Manuel, A., Gupta, D., & Hinchman, T. (2018). A mutually beneficial PDS model. *School-University Partnerships*, 11(3).
- KureetharaManuel, A. (2012). *The Effects of Applying Integrative Methodology of Learning and Math Achievement* [PhD Thesis]. Mercer University.
- KureetharaManuel, A. (2019). *The Effects of Immediate Feedback Using a Student Response System on Math Achievement of Eleventh Grade Students*.
- KureetharaManuel, A. (2021). Transformative eLearning engagement tools used in research classes. In *ELearning engagement in a transformative social Learning environment* (pp. 279–294). IGI Global.
- KureetharaManuel, A., Gupta, D., & Hinchman, T. (2018). The Potential for Dispositions Assessments to Evaluate PDS Relationships. *School-University Partnerships*, 11(3), 1–7.
- KureetharaManuel, A., & Hinchman, T. (2020). Teachers' Perspectives on Feedback Timing. *Society for Information Technology & Teacher Education International Conference*, 2074–2078.
- KureetharaManuel, A. K., McIntyre, C., Reeves, E., & Curry, D. (2021). A study on the effects of hybrid methods in a teacher education course. *Society for Information Technology & Teacher Education International Conference*, 1259–1263.
- Manuel, A., & Hinchman, T. (2018). Classroom Technology: Overcoming the hindrances in new teachers' classrooms. *Society for Information Technology & Teacher Education International Conference*, 1586–1592.
- McIntyre, C., Reeves, E., Curry, D., & Manuel, A. (2021). *Hybrid Methods Course Model: Evidence from the Field*.

- Padath, A. A., & KureetharaManuel, A. K. (2015). Methodological Approach to Design Problem and Usability. *International Journal of Computer Information Systems and Industrial Management Applications*, 7, 173–180.
- Randolph, J., Bryson, A., Menon, L., Henderson, D., Kureethara Manuel, A., & Michaels, S. (2023a). Montessori education's impact on academic and nonacademic outcomes: A systematic review. *Campbell Systematic Reviews*, 19(3), 1–74.
- Randolph, J., Bryson, A., Menon, L., Henderson, D., Kureethara Manuel, A., & Michaels, S. (2023b). Montessori education's impact on academic and nonacademic outcomes: A systematic review. *Campbell Systematic Reviews*, 19(3), e1330.
- Randolph, J., DeWeese, S., Manuel, A., Baugher, G., Tessmer, K., Westbrook, A., Shoats, S., Balloun, J., & Crawford, L. (2014). Page length and methodological characteristics of recently published doctoral dissertations in education. *Georgia Educational Researcher*, 11(2), 46.
- Randolph, J. J., Bryson, A., Menon, L., Henderson, D. K., KureetharaManuel, A., Michaels, S., Rosenstein, D. L. W., McPherson, W., O'Grady, R., & Lillard, A. S. (2023). Montessori education's impact on academic and nonacademic outcomes: A systematic review. *Campbell Systematic Reviews*, 19(3), e1330.
- Randolph, J. J., Falbe, K., & KureetharaManuel. (2014). A step-by-step guide to propensity score matching in R. *Practical Assessment, Research & Evaluation*, 19.
- Randolph, J. J., Falbe, K., Manuel, A., & Balloun, J. L. (2009). Practical assessment, research & evaluation. *Practical Assessment, Research, & Evaluations*, 14(13), 1–13.

Doctoral Dissertation

- Manuel, A. K.** (2015). *The Effects of Immediate Feedback Using a Student Response System on Math Achievement of Eleventh Grade Students* [Dissertation]. Mercer University.

Master's Thesis

- Kureethara Manuel, A.** (2012). *The Effects of Applying Integrative Methodology of Learning and Math Achievement* [Thesis]. Mercer University.

Conference Proceedings

- Kureethara Manuel, A., & Hinchman, T. (2018). Classroom Technology: Overcoming the hindrances in new teachers' classrooms. In E. Langran & J. Borup (Eds.), *Proceedings of Society for Information Technology & Teacher Education International Conference 2018* (pp. 1586–1592). Association for the Advancement of Computing in Education (AACE). <https://www.learntechlib.org/primary/p/182968/>
- Kureethara Manuel, A., & Hinchman, T. (2020). Teachers' Perspectives on Feedback Timing. In D. Schmidt-Crawford (Ed.), *Proceedings of Society for Information Technology & Teacher Education International Conference 2020* (pp. 2047–2051). Association for the Advancement of Computing in Education (AACE). <https://www.learntechlib.org/primary/p/216076/>

Presentations

- Gupta, D., Hinchman, T., Hood, J., Kureethara Manuel, A., & Lopez, M. (2018, June 6). *Yes! We Can Code!* [Presentation]. 2018 Texoma Regional Math & Science Conference, Wichita Falls, TX.

- Gupta, D., Hinchman, T., Hood, J., Kureethara Manuel, A., & Lopez, M. (2019, July). *Play! Learn! Play! Learn!* [Presentation]. Conference for the Advancement of Mathematics Teaching (CAMT), San Antonio, TX.
- Kureethara Manuel, A. (2019, February 7). *Immediate Feedback Using Student Response System* [Presentation]. Southwest Educational Research Association (SERA), San Antonio, TX.
- Kureethara Manuel, A., & Gupta, D. (2020, February 13). *Coding with Coder-Pillars: Coding is Possible in Early Grades* [Presentation]. Southwest Educational Research Association (SERA), Arlington, TX.
- Kureethara Manuel, A., & Hinchman, T. (2019, February 26). *Technology in New Teachers' Classrooms* [Poster]. Conference on Academic Research in Education (CARE), Las Vegas, NV. <https://www.care-conference.net/2018-general-scheduledocx>
- Lindt, S., Miller, S., & Kureethara Manuel, A. (2018, July 2). *Assessment Practices and Learning Outcomes in Educational Research* [Poster]. Council on Undergraduate Research (CUR) Biennial Conference 2018, Arlington, VA. https://www.cur.org/assets/1/7/CUR_2018_Program_Final1.PDF
- Randolph, J. J., Falbe, K., & Kureethara Manuel, A. (2014, April). *A practitioner's guide to propensity score matching* [Presentation]. Mercer University Atlanta Research Conference 2014, Atlanta, GA.
- Randolph, J., Kureethara Manuel, A., Baugher, G., Westbrook, A., DeWeese, S., & Shoats, S. (2012, October 12). *Page Length and Methodological Characteristics of Recently Published Doctoral Dissertations in Education*. Georgia Educational Research Association (GERA) Conference 2012, Savannah, GA. <http://digitalcommons.georgiasouthern.edu/gerjournal/vol11/iss2/2>

Courses Designed

- Developed and designed the Teaching Mathematics (EC-3) CBE Course (EDUC 4403) (2019-2020)
- Developed, designed and taught the Concepts of Math CBE Course (GNMT 3003) (2019-2020)

Grants

Arumugham, P., & Kureethara Manuel, A. (2020). *Grant: Improving knowledge in identifying mental health issues among case managers, schoolteachers, and police officers: A pre-post assessment of a pilot workshop.*

Workshops

Conducted a One-Day Workshop on Improving Knowledge In Identifying Mental Health Issues, on January 17, 2020 (9 am – 4 pm) at Comanche Suites, Midwestern State University for Law Enforcement Officers, Case Managers, & Educators of WFISD (Guest Speaker: Dr. Lloyd L. Lyter, Professor of Social Work and Director, Marywood University, PA, in collaboration with Dr. Packiaraj Arumugham, Associate Professor of Social Work.

Guest Lecture

Invited as guest lecture to teach about validity and reliability of assessment data in Dr. Suzanne Lindt's Classroom assessment classes (EDUC 3183) – 02/01/2018, 9/18/2018, 10/17/2019, 3/10/2020, 10/15/2021, 3/2/2021, 3/4/2021.

Research Reviews

Enhancing Undergraduate Research and Creative Activities (EURECA), Reviewer for EURECA proposals (2018, 2019, and 2020).

Southwest Educational Research Association (SERA), Reviewer for SERA publication. (2016 – 2020).

Georgia Educational Research Association (GERA), Reviewer for GERA publication. (2016 – 2017).

Texas Educator Preparation (TxEP), Reviewer for TxEP publication. (2020 – 2021).

Research Agenda (Current Research/Projects)

Gupta, D., & **Kureethara Manuel, A.** (2020). *Code-A-Pillar* [Article].

McIntyre, C., Reeves, E., Curry, L., & **Kureethara Manuel, A.** (2020). *From School to Prison: Rethinking the Euro-Western Discipline Referral System* [Article].

Reeves, E., McIntyre, C., Curry, L., & **Kureethara Manuel, A.** (2020). *Hybrid methods course model for pre-service teacher education: Implementation evidence from the field.* [Article].

In Progress: Joined the meta-analysis team with Justus J. Randolph (Mercer University, Atlanta, GA), Anaya Bryson, Lakshmi Menon, Stephen Michaels, Debra Leigh Walls Rosenstein, Warren McPherson on Montessori education.

In Progress: Performing data analysis for a study on Feedback timing (immediate v/s delayed) in science and mathematics (Midwestern State University, Wichita Falls, TX).

Research Interests

Using effective feedback systems for student responses using technology

- to enhance student comprehension - as formative assessment tools - to improve student achievement - in mathematics education in all levels and grades - to differentiate education - to improve student-engagement - as teaching tool

Ways to improve student attention, comprehension, and achievement.

How to improve student success and achievement.

How to enhance the learning process, especially in mathematics.

How to implement effective co-teaching strategies in early teachers' classrooms.

How to assess undergraduate and graduate research.

How to enhance beginning teachers' abilities to use technology in classrooms.

SERVICES

Midwestern State University, helped several students with their degree programs outside my assignments

- Patrick Vu (Content Validity issue for his dissertation)
- Victoria Estrada (Help with Teacher Certification Exams)
- Kelsey Ballard (Help with Teacher Certification Exams)

First Step, Inc., Wichita Falls, TX, Member of the Board of Directors (2018- present).

First Step, Inc., Wichita Falls, TX, Secretary to the Board of Directors (2019- present).

Midwestern State University, Member of the Academic Team that contributed to the new teacher CBE education course for grades EC-6 Readmission Committee (2019 – present).

Midwestern State University, Developed and designed the Teaching Mathematics (EC-3) CBE Course (EDUC 4403) (2019-2020)

Midwestern State University, Developed and designed the Concepts of Math CBE Course (GNMT 3003) (2019-2020)

Midwestern State University, Member of the Academic Readmission Committee (2019 – present).

Midwestern State University, Member of the Institutional Review Board (IRB) and representative of the West College of Education in the IRB (2019 – 2020).

Midwestern State University, Member of the Student Conduct Committee (2018 - present).

Midwestern State University, Member of the Faculty Grievance Committee (2018 – present)

Midwestern State University, Conducted Haberman Interviews to select teacher candidates for West College of Education's teacher-education programs (2016 – present).

Midwestern State University, Member of the University Research Committee (2017-2019).

Midwestern State University, Member of Faculty Search Committee for the position of tenured faculty at West College of Education (2017, 2018).

Midwestern State University, Member of the Alternate Certification Committee for West College of Education (2016 – present).

Midwestern State University, Member of Celebration of Scholarship Committee for Midwestern State University (2016, 2017, 2018).

Midwestern State University, Served in the CAEP committee (2016-2017).

Midwestern State University, Member of the graduate committee for graduate students (2016 – 2018).

Midwestern State University, Graduate committee chairperson (2017-2018).

Midwestern State University, Volunteered for Family Day 2016, 2017, 2018.

Southwest Educational Research Association (SERA), Reviewer for SERA publication. (2016 – 2018).

Alcovy High School, Pre-calculus Content Leader (2015 – 2016)

Mercer University, Member of Student Advisory Board of the university (2014-2015).

Alcovy High School, Prepared two teams for Moody's Mega Math Challenge (2015, 2016).

Alcovy High School, Member of SACS committee (2012-2013).

Alcovy High School, Prepared students for Georgia High School Graduation Test (GHSGT). (2010-2013)

Alcovy High School, Prepared students for End Of Course Tests (EOCT). (2010-2016)

Forest Park High School, Member of SACS committee (2009-2010).

Forest Park High School, Prepared students for Georgia High School Graduation Test (GHS GT) and End Of Course Tests (EOCT). (2007-2010)

St. John De Britto's Anglo Indian High School, prepared seven batches of tenth grade students for their Secondary School Leaving Certificate (SSLC) conducted by Kerala State Education Board. (1997–2007).

St. John De Britto's Anglo Indian High School, School Information Technology Coordinator (SITC) (2000-2007).

St. John De Britto's Anglo Indian High School: Designed and programmed spreadsheet gradebook of the school.

St. John De Britto's Anglo Indian High School: Designed and programmed spreadsheet cultural activity (Youth Festival) program that the school used for several years.

St. John De Britto's Anglo Indian High School, Mathematics club coordinator. (1999-2000; 2002-2003).

PROFESSIONAL DEVELOPMENT / AWARDS

Midwestern State University, Faculty D2L Training (Modules: Navigation and Setup, Building Content, Assessments, Communication, Virtual Classroom, Zoom, TEAMS, Gradebook) (July 22, 2020)

Midwestern State University, Employee Re-boarding Training (July 27, 2020)

Midwestern State University, Responsible Employee Title IX Training (September 14, 2018)

Midwestern State University, ADA Compliance Training (November, 2018)

GAPSC, Teaching Certificate 6-12, Mathematics, Gifted Endorsement (2007- 2023).

KnowBe4 Security Awareness Training by Midwestern State University, August, 2018.

Handling Sensitive Information Training by Midwestern State University, August, 2018.

Field Supervisor Observation Training for Teacher Certification Candidates, Region 9, August 2018.

D2L Training for Faculty Certificate awarded by Center for Continuing, Professional & Distance Education, Midwestern State University, July 6, 2016.

Preparing Online Instructors Certificate awarded by Center for Continuing, Professional & Distance Education, Midwestern State University, July 1, 2016.

Selected as the favorite teacher by Top Ten Senior students consecutively for the second year (2016).

Top Ten Teacher award from Alcovy High School, after being selected as their most favorite teacher from among the selected top ten teacher by the top ten academic achievers from the school on May, 2015.

“Teacher Appreciation Award” awarded by Rotary Club of Covington, GA after being selected as their favorite teacher by top ten academic achievers in Alcovy High School on April 28, 2015.

Member of American Educational Research Association (AERA).

Member of National Council of Teachers of Mathematics (NCTM).

Member of the Association for Supervision and Curriculum Development (ASCD).

College Board Advanced Placement Program, *AP Calculus AB Teaching Endorsement* June 24-27, 2013.

GaPSC, *Gifted Endorsement*, 5 August 2012

Texas Instruments, *TI Technology Workshop on TI-Nspire for intermediate users in High School Math*, July 21, 2011.

GaPSC, *Math II–IV, GaDOE Training*, 05 June 2009

GaPSC, *Creating Online Courses with BlackBoard*, 21 April 2009

GaPSC, *Effective Strategies for Differentiated Instruction*, 30 March 2009

GaPSC, *CREating Independence through Student owned Strategies (CRISS)*, 28 March 2009

GaPSC, *Online course: MS Word*, 24 February 2009

GaPSC, *Teaching Math with Manipulatives*, 10 February 2009

Bureau of Education & Research, *Practical Strategies for working successfully with difficult students*, 02 October 2008

GaPSC, *Online Course: MS Excel*, 07 May 2008

GaPSC, *Classroom Tools: Re-teaching*, 20 March 2008

GaPSC, *Saturday Math Academy HS Teachers*, 15 March 2008

GaPSC, *Identifying and educating of Exceptional Child*, 14 February 2008

Georgia Assessments for the Certification of Educators (GACE), *Mathematics–Test 1(022)*, 12 January, 2008.

Georgia Assessments for the Certification of Educators (GACE), *Mathematics–Test 2(023)*, 12 January, 2008.

Georgia Department of Education, *Educational Technology Training: Georgia AssessOnline Test of Computer Skills Competency*, 26 September 2007.