
James Kwame Dogbey

Curriculum Vitae — Fall 2020

Texas A&M University-Corpus Christi
College of Science & Engineering, Mathematics & Statistics Department
Office: Center for Instruction 304, Office Phone: (361) 825-3159
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EDUCATION

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|-------------|--------------|-----------------------------------------------------------------------------------------------|
| 2010 | Ph.D. | Curriculum and Instruction: Mathematics Education
University of South Florida, 2010 |
| 2004 | M.S. | M.S., Applied Mathematics
Wichita State University, 2004 |
| 2001 | B.Ed. | B.Ed., Mathematics Education
University of Cape Coast, 2001 |

LICENSURES AND CERTIFICATIONS

Certificate of Peer Observation of Teaching Best Practices (2019)

Certificate of Professional Development in Best Practices for Online Course Design, Texas A&M University- Corpus Christi (2014 - Present).

6-12 Teacher Certification, Mathematics, Ghana Education Service (Lifetime)

Research Interest:

- (1) Teachers' knowledge of mathematics for teaching
- (2) Curriculum studies and development in mathematics education
- (3) Interdisciplinary research collaborations

PROFESSIONAL EMPLOYMENT

- August 2019 – Present (Associate Professor)**
Texas A & M University – Corpus Christi
College of Science & Engineering
Dept. of Mathematics & Statistics
- August 2014 – May 2019 (Assistant Professor)**
Texas A & M University – Corpus Christi
College of Science & Engineering
Dept. of Mathematics & Statistics
- August 2010 – May 2014 (Assistant Professor)**
Clemson University
Joint Appointment:
Department of Teacher Education
Mathematical Sciences Department
- August 2006 – May 2010 (Graduate Instructor)**
University of South Florida
College of Education
Department of Secondary Education
- August 2005 – July 2006 (Research Associate)**
University of South Florida
College of Education
Department of Secondary Education
- August 2003 – July 2005 (Graduate Instructor)**
Wichita State University
College of Liberal Arts and Science
Dept. of Mathematics & Statistics
- August 2001 – May 2003 (Teaching/Senior Research Assistant)**
University of Cape Coast, Ghana
Dept. of Science & Mathematics
Education
- August 1996 – May 1998 (High School Teacher)**
Ghana Education Service
Afadjato Senior Secondary School

PROFESSIONAL MEMBERSHIPS

Texas Council of Teachers of Mathematics

Association of Mathematics Teacher Educators, Texas

Association of Mathematics Teacher Educators, USA

National Council of Teachers of Mathematics, USA

Coastal Council of Teachers of Mathematics, Texas

Florida Council of Teachers of Mathematics, USA (2006 – 2010)

American Mathematical Society, USA

Mathematical Association of Ghana, Ghana

TEACHING EXPERIENCE

Texas A&M University – Corpus Christi (August 2014 – Present)

Graduate:

MATH 5328: Structure of Probability and Statistics

MATH 5329: Structure of Modeling with Rates of Change

MATH 5325: Structure of Number Concepts

MATH 5993: Literature Review and Research

MATH 5994: Proposal Research

MATH 5995: Thesis

Undergraduate: (*course taught in multiple semesters)

SMTE 4382: Basic Mathematics from an Advanced Viewpoint*

MATH 2414: Calculus II*

MATH 2413: Calculus I

MATH 1442: Statistics for Life

SMTE 1351: Fundamentals of Mathematics II*

SMTE 1350: Fundamentals of Mathematics I*

MATH 0300: Developmental Mathematics

Clemson University (August 2010 – May 2014)

Graduate:

EDSEC 842: Advanced Study in Secondary Mathematics

Undergraduate: (*course taught multiple semesters)

EDEL 481: Directed Teaching in the Elementary School*

EDEL 452: Elementary Methods in Mathematics Teaching*

MTHSC 117: Math for Elementary Teachers*

MTHSC 115: Contemporary Mathematics for Elementary School Teachers I *

University of South Florida: (August 2006 – May 2010)

Graduate:

MAE6117: Teaching Elementary School Math

Undergraduate: (*course taught multiple semesters)

MAE4326: Teaching Elementary School (K-6) Math II*

MAE4310: Teaching Elementary School (K-6) Math I*

Wichita State University (August 2003 – July 2005)

Undergraduate: (*course taught multiple semesters)

MATH 111: College Algebra*

MATH 012: Intermediate Algebra*

MATH 011: Beginning Algebra*

Thesis/Dissertation Supervision

Ph.D. Committees (Texas A&M University – Corpus Christi)

PhD Dissertation - *Committee Member*

Carl Juenke, Spring 2017 – Summer 2017 (Completed)

M.S. Committees (Texas A&M University – Corpus Christi)

Master's Thesis - *Committee Chair*

Justene Viera, November 2018 – May 2020 (Completed)

Master's Thesis - *Committee Chair*

Anna Malachite, November 2015 – July 2016 (Completed)

Master's Thesis - *Committee Chair*

Pragati Bennerjee, November 2015 – July (Completed)

Master's Thesis - *Committee Member*

April Canales, November 2014 – May 2015 (Completed)

Ph.D. Committees/Advisories (Clemson University)

Doctoral Advisory - *Committee Chair*

Sherri Kennedy (2012-2013)

Doctoral Advisory - *Committee Member*

Johnnette Nesbitt (2011-2012)

Doctoral Preliminary Examination - *Committee Member*

SCHOLARLY AND CREATIVE ACTIVITIES

Publications (*Peer Reviewed Publications*)

Products at Texas A&M University - Corpus Christi

1. **Dogbey, J. K.** (*under review*). Teaching Mathematics in Culturally Diverse Environments: The Role of Classroom Discourse. *Mathematics Teacher Education and Development (MTED)*.
2. Bannerjee, P., **Dogbey, J. K.**, & Bruun, F. (*under review*). The Formulation of the Concept of Rates of Change and its Impact on Students' Understanding of Functions. *School Science and Mathematics (SSMA)*.
3. **Dogbey, J. K.** (*accepted - revised and resubmitted*). Helping Elementary School Mathematics Teachers Transform their Instruction through Classroom Discourse and Co-operative Learning. *Journal of Mathematics Teacher Education (JMTE)*.
4. **Dogbey, J. K.**, Kumi-Yeboah, A., & Yuan, G. (2020). Cultural diversity in online education: An exploration of instructors' perceptions and challenges. *Teachers College Record* 122(7).
5. Kumi-Yeboah, A., **Dogbey, J. K.**, & Yuan, G. (2018). *Cultural diversity in online learning - Perceptions of minority graduate students*. In Kyei-Blankson, L., Blankson, J., & Ntuli, E. (Eds.), *Care and culturally responsive pedagogy in online settings*. Hershey, PA: IGI Global.
6. Kumi-Yeboah, A., **Dogbey, J. K.**, & Yuan, G. (2017). Online collaborative learning activities: The perceptions of minority graduate students. *Online Learning Journal*, 21(4), 1-24.
7. Kumi-Yeboah, A., **Dogbey, J. K.**, & Yuan, G. (2017). Exploring Factors that Promote Online Learning Experiences and Academic Self-Concept of Minority High School Students. *Journal of Research on Technology in Education*, 50(1), 1-17.
8. Kumi-Yeboah, A., **Dogbey, J. K.** & Yuan, G. (2017). Investigating immigrant students understanding of cultural diversity in online learning environments. *Proceedings of the 2017 CIAE of the American Association for Adult and Continuing Education Pre-Conference*, (pp. 157-172).

9. **Dogbey, J. K.**, Kumi-Yeboah, A. & Dogbey, J. (2017). Dialogue Pedagogical Strategies Perceived to Enhance Online Interaction – Instructors’ Perspective. *International Journal of Online Pedagogy and Course Design*, 7(3), 70 – 86.
10. **Dogbey, J. K.** & Dogbey, J. (2016). Depth of knowledge and context characteristics of the West African Examination Council’s core mathematics assessment – the case of Ghana from 1993 - 2013. *Assessment in Education: Principles, Policy & Practice*, 16(3), 379 – 398.
11. Miller, Z. D., Quigley, C., Hallo, J., **Dogbey, J. K.**, Che, S., Seno, S. (2016). Investigating Wildlife and Grazing Perspectives of Kenyan University Students. *Journal for Nature Conservation*, 32, 44 – 52.
12. Dogbey, J., & **Dogbey, J. K.** (2016). The Impact of Financial Integration on Growth-Volatility Relationship – A Reappraisal. *The Global Journal of Management and Business Research*, 16(1), 69 – 76.
13. **Dogbey, J. K.** (2015). Using Variables in School Mathematics: Do School Mathematics Curricula Provide Support for Teachers? *International Journal of Science and Mathematics Education*, 14(6), 1175-1196.
14. Quigley, C. F., **Dogbey, J. K.**, Che, M. & Hallo, J. (2015). Shared Understandings: Environmental perspectives of Kenyan community members and teachers. *Environmental Education Research*. DOI: 10.1080/13504622.2014.966660.

Before Texas A&M University - Corpus Christi

15. Quigley, C. F., Miller, Z. D., **Dogbey, J. K.**, Che, M. & Hallo, J. (2014). “No one should destroy the forest”: Using Photo-based Vignette Interviews to Understand Kenyan Teachers’ Views of the Environment. *International Journal of Science Education*, 36(17), 2937-2957
16. Quigley, C. F., **Dogbey, J. K.**, Che, M., Hallo, J & Womac, P. (2014). Through Their Lens: The Potential of Photovoice for Understanding Environmental Perspectives among Kenyan Teachers. *The Qualitative Report*. 19(18) 1-22.
17. **Dogbey, J. K.**, Quigley, C. F., Che, M., & Hallo, J. (2014). Using Smartphone Technology in Environmental Sustainability Education: The case of the Maasai Mara region in Kenya. *International Journal of Mobile and Blended Learning*, 6(1), 1-16.
18. Quigley, C. F., **Dogbey, J. K.**, Che, M. & Hallo, J. (2014). Investigating Local Sustainable Environmental Perspectives of Kenyan Community Members and Teachers. *Cultural Studies in Science Education*. 10(3) 551-580 DOI: 10.1007/s11422-014-9584-1.

19. Tyminski, A. M., & **Dogbey, J. K.** (2012). Developing the Common Denominator Fraction Division Algorithm. *Mathematics Teaching in the Middle School, 19*(4), 248-253.
20. **Dogbey, J. K.**, & Kersaint, G. (2012). Treatment of Variables in Popular Middle-Grades Mathematics Textbooks in the USA: Trends from 1957 through 2009. *International Journal for Mathematics Teaching and Learning, 2*(1), 1-30.
21. **Dogbey, J. K.**, Gyening, J., & Kersaint, G. (2011). Factoring Quadratic Trinomials: An Alternative Approach. *Learning and Teaching Mathematics, 10*, 44 - 45.
22. Kersaint, G., **Dogbey, J. K.**, Barber, J. & Kephart, D. (2011). The Effect of Access to an Online Tutorial Service on College Algebra Student Outcomes. *Mentoring & Tutoring: Partnership in Learning, 19*(1), 25 – 44.
23. Smith, G. G., Gerretson, H., Olkun, S., Yuan, Y., **Dogbey, J. K.**, & Erdem, A. (2009). Stills, not full motion, for interactive spatial training: American, Turkish and Taiwanese female pre-service teachers learn spatial visualization. *Computers and Education, 52*(1), 201-209.
24. Smith, G., Gerretson, H., Olkun, S., Akkurt, Z., & **Dogbey, J. K.** (2009). Cross-cultural comparison of the effect of causal narratives in solving mathematical word problems. In M. Tzekaki, M. Kaldrimidou & C. Sakonidis. (Eds.). *Proceedings of the 33rd Conference of the International Group for the Psychology of Mathematics Education, Vol. 5*, (pp. 145-152). Thessaloniki, Greece: IGPME.
25. Smith, G., Olkun, S., Gerretson, H., Deryakulu, D., **Dogbey, J. K.**, & Erdem, A. (2008). Pre-service classroom teachers' learning of spatial skills through geometric transformations: U.S.A and Turkey. In *Proceedings of World Conference on Educational Multimedia, Hypermedia and Telecommunications 2008* (pp. 5709-5713). Chesapeake, Vienna Austria: AACE.
26. Kersaint, G., & **Dogbey, J. K.** (2007). Florida's Fourth Grade Student Mathematics Achievement: A Comparison with the Nation. *Dimensions in Mathematics: Journal of the Florida Council of Teachers of Mathematics, 32*(2), 6 -12.
27. **Dogbey, J. K.** (2007). Using iPods for instruction, *The Principals' Partnership*. <http://www.principalspartnership.com/iPods.pdf>

Papers in Preparation

1. Juenke, C., **Dogbey, J. K.**, & Bruun, F. (*in preparation*). The Role of K-2 Teachers Mathematical Knowledge for Teaching Place Value in Mathematics Intervention. To be submitted to: *Mathematics Teacher Education and Development (MTED)*
2. Kumi-Yeboah, A., **Dogbey, J. K.**, & Yuan, G. (*in preparation*). Cultural diversity in online learning: Perceptions of minority graduate students: To be submitted to: *The International Review of Research in Open and Distributed Learning*
3. **Dogbey, J. K.**, (*in preparation*). Students' Interpretation of Solutions to Mathematics Problems in Real-World Context.
4. **Dogbey, J. K.** (*in preparation*). Context-Relevant Mathematics: A Study of the Senior High School Mathematics Curriculum in Ghana.

Conference Papers/Presentations (Peer Reviewed)

National/International Presentations (At Texas A&M University - Corpus Christi)

1. Kumi-Yeboah, A. & **Dogbey, J.** (2020, April) *Exploring Digital Technologies That Promote Educational Achievements of Diverse Learners in Online Learning*. AERA Annual Meeting San Francisco, CA <http://tinyurl.com/t5498q5> (Conference Canceled due to COVID-19).
2. **Dogbey, J.**, Bannerjee, P., & Bruun, F., (2020, February). *Exploring Grades 9-12 Students Understanding of Rates of Change in Functional Situations*. Paper was to be presented at the 14th International Congress on Mathematical Education (ICME-14). Shanghai, China (Conference Canceled due to COVID-19).
3. Kumi-Yeboah, A., **Dogbey, J.**, Smith, P. & Yuan, G. (2020, April) *Exploring the Relationship Between Online Learning Experiences and Academic Performance of International Undergraduate Students*. AERA Annual Meeting San Francisco, CA <http://tinyurl.com/se4ehw9> (Conference Canceled due to COVID-19).
4. **Dogbey, J. K.**, Kumi-Yeboah, A., Yuan, G. (2019, April). Cultural diversity in online education: An exploration of instructors' perceptions and challenges. *Paper presented at the 2019 annual meeting of the American Educational Research Association (AERA)*, Toronto, Canada.
5. **Dogbey, J. K.**, Kumi-Yeboah, A., Yuan, G. (2019, April). Cultural diversity in online learning: Perceptions of minority graduate students. *Paper presented at the 2019 annual meeting of the American Educational Research Association (AERA)*, Toronto, Canada.

6. Bannerjee, P., Bruun, F., & **Dogbey, J. K.** (2018, February). *The Development of the Concept of Rates of Change and its Impact on Students' Understanding of Functions*. Paper presented at the 2018 Research Council on Mathematics Learning (RCML) Conference, 45th Annual Meeting in Baton Rouge, Louisiana, February 22-24.
7. Kumi-Yeboah, A. & **Dogbey, J. K.** (2018, April). *Exploring Factors that Promote Online Learning Experiences and Academic Self-Concept of Minority High School Students*. Paper presented at the 2018 annual meeting of the American Educational Research Association (AERA), New York City.
8. Kumi-Yeboah, A., **Dogbey, J. K.**, & Yuan, G. (2017, October). *Investigating immigrant students understanding of cultural diversity in online learning environments*. Paper presented at the 2017 CIAE of the American Association for Adult and Continuing Education Pre-Conference, Memphis, TN.
9. **Dogbey, J. K.**, & Kumi-Yeboah, A. (2017, April). *Dialogue pedagogical strategies perceived to enhance online interaction –Instructors perspective*. Paper presented at the 2017 annual meeting of the American Educational Research Association (AERA), San Antonio, TX.
10. **Dogbey, J. K.** (2016, July). *Reforming Elementary School Mathematics Instruction Through Classroom Discourse and Cooperative Learning*. Paper presented at the 13th International Congress on Mathematical Education (ICME-13). Hamburg, Germany.
11. Dogbey, J., & **Dogbey, J. K.** (2016, July). *Depth of Knowledge and Context Characteristics of the West African Examination Council's Core Mathematics Assessment*. Paper presented at the 13th International Congress on Mathematical Education (ICME-13). Hamburg, Germany.

State/Local Presentations

12. **Dogbey, J. K.** (2019, June). *Fraction Division: An Alternate Approach to Invert-and-Multiply*. Paper presented at the 2019 ME by the SEa Conference, Coastal Council of Teachers of Mathematics. Corpus Christi, TX.
13. **Dogbey, J. K.** (2017, July). *Developing Computational Fluency Through Productive Talk in the Math Classroom*. Paper presented at the 2017 Conference for the Advancement of Mathematics Teaching (CAMT), Fort Worth, TX.
14. **Dogbey, J. K.** (2017, August). *The Role of the Mathematics Teacher in Engaging in Whole Class Discussion*. Paper presented at the 2017 West Oso's Teaching and Learning Conference, Corpus Christi, TX.

15. **Dogbey, J. K.** (2016, June). *Using Tangrams to Promote Spatial Reasoning and Critical Thinking in Elementary Classrooms*. Paper presented at the 2016 ME by the SEa Conference, Coastal Council of Teachers of Mathematics. Corpus Christi, TX.
16. **Dogbey, J. K.** (2016, March). *The Role of Discourse in Engaging Students and Pre-service Teachers in Mathematical Problem Solving*. Paper presented at the 2016 Coastal Bend Mathematics & Statistics Symposium, Texas A&M University, Corpus Christi, TX.
17. **Dogbey, J. K.** (2015, June). *Helping Elementary School Students Develop Computational Fluency Through Math Talk*. Paper presented at the 2015 ME by the SEa Conference, Coastal Council of Teachers of Mathematics. Corpus Christi, TX.
18. **Dogbey, J. K.** (2015, June). *Common Denominator as a Conceptual Model for Developing Fluency in Fraction Division*. Paper presented at the 2015 ME by the SEa Conference, Coastal Council of Teachers of Mathematics. Corpus Christi, TX.

National/International Presentations (Before Texas A&M University – CC)

19. Quigley, C. F., **Dogbey, J. K.**, Che, M., & Hallo, J. (2014, April). *Broadening the dialogue: Environmental Perspectives of Kenyan Teachers and Community Members*. Paper presented at the 2014 National Association of Research in Science Teaching (NARST) International Conference, Pittsburg, PA.
20. Quigley, C. F., **Dogbey, J. K.**, Che, M., & Hallo, J. (2014, April). *Shared Understandings: Common environmental perspectives of Kenyan community members and teachers*. Paper presented at the 2014 American Educational Research Association (AERA), Philadelphia, PA.
21. Quigley, C. F., **Dogbey, J. K.**, Che, M., Hallo, J., & Womac, P. (2013, April). *Through Their Lens: The Potential of Photovoice for Understanding Environmental Perspectives among Kenyan Teachers*. Paper presented at the 2013 annual meeting of the American Educational Research Association (AERA), San Francisco, CA.
22. Hallo, J., Nabaala, M., Quigley, C., **Dogbey, J. K.**, & Che, M. (2013, March). *Kenyan Community Members' Perspectives of 'Environment' and 'Sustainability', and Their Connections with Protected Areas*. Paper presented at the George Wright Society. Denver, CO.
23. Quigley, C. F., **Dogbey, J. K.**, Che, M., & Hallo, J. (2013, April). *Investigating Local Sustainable Environmental Perspectives of Kenyan Community Members*

- and Teachers*. Paper presented at the 2013 annual meeting of the American Educational Research Association (AERA). San Francisco, CA.
24. Quigley, C. F., **Dogbey, J. K.**, Che, M., Hallo, J., & Womac, P. (2013, April). *Through Their Lens: The Potential of Photovoice for Understanding Environmental Perspectives among Kenyan Teachers*. Paper presented at the 2013 National Association of Research in Science Teaching (NARST) Rio Grande, Puerto Rico.
 25. Quigley, C. F., **Dogbey, J. K.**, Che, M., Hallo, J. (2013). *Investigating Local Sustainable Environmental Perspectives of Kenyan Community Members and Teachers*. Paper presented at the 2013 National Association of Research in Science Teaching (NARST): A Worldwide Organization for Improving Science Teaching and Learning Through Research. Rio Grande, Puerto Rico.
 26. **Dogbey, J. K.** (2012, October). *Trends in the Treatment of Variables in Middle Grades Mathematics Textbooks*. Paper presented at the 2012 National Council of Teachers of Mathematics (NCTM) Regional Conference and Exposition, Hartford Connecticut.
 27. **Dogbey, J. K.** (2012, July). *The Concepts of Variable in Middle-Grades Mathematics Textbooks during Four Eras of Mathematics Education in the United States*. Paper presented at the 12th International Congress on Mathematical Education (ICME-12). Seoul, Korea.
 28. **Dogbey, J. K.** (2012, February). *Dealing with Variables: Do School Mathematics Curricula Provide Support for Teachers?* Paper presented at the 2012 Research Council on Mathematics Learning (RCML) Conference, 39th Annual Meeting. Charlotte, North Carolina.
 29. **Dogbey, J. K.**, Gyening, J., & Kersaint, G. (2011, March). *Factoring Quadratic Trinomials: An Alternative Approach*. Paper presented at the 2011 Research Council on Mathematics Learning (RCML) Conference, 38th Annual Meeting. Cincinnati, Ohio.
 30. Kersaint, G., **Dogbey, J. K.**, Kephart, D., & Barber, J. (2010, April). *The Effect of Access to an Online Tutorial Service on the Achievement and Attitudes of College Algebra Students*. Paper presented at the 2010 annual meeting of the American Educational Research Association (AERA), Denver, Colorado.
 31. **Dogbey, J. K.**, Johnson, G., & Joseph, C. (2009, February). *Pre-service Elementary Teachers' Pedagogical Content Knowledge Related to Rates and Ratios*. Paper presented at the 2009 Association of Mathematics Teacher Educators (AMTE) Annual Conference, Orlando, Florida.

32. Smith, G., Gerretson, H., Sinan, S., **Dogbey, J. K.**, & Akkurt, Z. (2009, July). *Cross-cultural comparison of the effect of causal narratives in solving mathematical word problems*. Paper presented at the International Group for the Psychology of Mathematics Education PME 33, Thessaloniki – Greece.
33. Smith, G., Gerretson, H., Olkun, S., **Dogbey, J. K.**, Deryakulu, D., & Erdem, A. (2008). *Pre-service classroom teachers' learning of spatial skills through geometric transformations: U.S.A and Turkey*. Paper presented at the World Conference on Educational Multimedia, Hypermedia and Telecommunications Volume 2008, Number 1 *ED-MEDIA 2008--World Conference on Educational Multimedia, Hypermedia & Telecommunications*.
34. **Dogbey, J. K.**, Johnson, G., & Joseph, C. (2007, March). *A comparison of standardized fourth-grade mathematics assessments: Content coverage, computation, and cognitive complexity*. Paper presented at the 2007 National Council of Teachers of Mathematics (NCTM) Conference, Atlanta, Georgia.
35. Smith, G., Gerretson, H., Olkun, S., **Dogbey, J. K.**, & Johnson, G. (2007, May). *Improving geometric transformation skills of elementary education pre-service teachers: Do spatial skills transfer and generalize?* Paper presented at the Second International Symposium of Mathematics and its Connection to the Arts and Sciences (MACAS2). University of Southern Denmark, Odense, Denmark.

State/Local Presentations

36. Bannister, N., **Dogbey, J. K.**, & Williams, C. L. (2013, July). *Enhancing Middle Grades Teacher Quality in Geometry and Cooperative Learning Instruction*. Workshop presented as a part of the ITQ summer mathematics institute. Abbeville, South Carolina.
37. **Dogbey, J. K.** (2013, January). *Preparing Middle and High School Teachers to Host International Teacher Leaders in Education*. An Orientation organized for Host Teachers as a part of the ILEP Grant. Liberty, South Carolina.
38. Bannister, N., **Dogbey, J. K.** & Williams, C., L. (2012, July). *Enhancing Middle Grades Teacher Quality in Algebra and Mathematics Classroom Discourse*. Workshop presented as a part of the ITQ summer institute. Abbeville, South Carolina.
39. **Dogbey, J. K.** & Cal, G. (2008, October). *Teaching for Conceptual Understanding: Exploring Area in Real Life Context*. Paper presented at the 2008 Florida Council of Teachers of Mathematics (FCTM) Conference, Jacksonville, Florida.
40. **Dogbey, J. K.**, Nagle, B., Beaudoin, C., & Schroeder, D. (2007, July). *Algebra: improving mathematics content knowledge of middle school and high school*

teachers through content expertise. Workshop presented as a part of ACE summer institute. Florida Department of Education.

41. **Dogbey, J. K.** & Johnson, G. (2006, October). *Teaching Elementary School Mathematics with Tangrams*. Paper presented at the 2006 Florida Council of Teachers of Mathematics (FCTM) Conference, Orlando, Florida.

Contracts, Grants, and Sponsored Research

Grant Activities at Texas A&M University - Corpus Christi

1. King S. (PI), **Dogbey J. K.**, (Co-PI), Kar D. (Co-PI) (2020). STEM: COmputing and Mathematics Proficiency to Accelerate Student Success (COMPASS). (\$999,996.00); Sponsored by the National Science Foundation (NSF RFP # 20-526). Not Funded
2. Kumi-Yeboah, A. (PI), **Dogbey, J.** (Co-PI) (2020). Examining Distance Education Students' Learning Experiences and Satisfaction in Ghana – A Feasibility Study (\$50,000); Sponsored by the Spencer Foundation (RFP #10023579). Not Funded
3. King S. (PI), **Dogbey J. K.**, (Co-PI), Kar D. (Co-PI) (2019). COmputing and Mathematics Proficiency to Accelerate Student Success (COMPASS). (\$999,682); Sponsored by the National Science Foundation (NSF RFP # 17-527). Not Funded
4. Szczerbinska S. (PI), Bird C. (Co-PI), **Dogbey J. K.** (Co-PI), McCollough C. (Co-PI) (2018). Collaborative Research: Mathematical, Physical and Life Sciences – Students Success (MAPLES³) Program. (\$2,719,904); Sponsored by the National Science Foundation (NSF RFP # 17-527). Not Funded
5. Postelnicu V. (PI), **Dogbey J. K.** (Co-PI), Ekici C. (Co-PI) (2017). Using Didactic Transposition to Advance Teacher Knowledge Theory in Culturally Diverse Environments. (\$499,724); Sponsored by the National Science Foundation (NSF RFP # 15-509). Not Funded
6. Szczerbinska S. (PI), Bird C. (Co-PI), **Dogbey J. K.** (Co-PI), McCollough C. (Co-PI) (2017). Collaborative Research: Mathematical, Physical and Life Sciences – Students Success (MAPLES³) Program. (\$2,449,573); Sponsored by the National Science Foundation (NSF RFP # 17-527). Not Funded

Before Texas A&M University - Corpus Christi

7. **Dogbey, J. K.** (PI), Malloy, J. (Co-PI), Horton, R. (Co-PI), & Gambrell, L. (Co-PI), (2014). Using Language to Transform Instruction in Elementary Classrooms

- (\$499,896); Sponsored by the National Science Foundation (NSF proposal #2013000639). Not Funded
8. Fisk, W., Spearman, M., **Dogbey, J. K.**, & Klar, H. “Clemson University International Leaders in Education Program”; awarded by the U.S. Department of State. **\$185,000**. Funded 2014.
 9. Bannister, N., Williams, C. L., & **Dogbey, J. K.** Improving Middle Grades Teacher Quality through the Clemson Mathematics Institute and Video Club. State ITQ grant **\$125,749.80**. 2013 Funded.
 10. Quigley, C. F., Che, S., **Dogbey, J. K.**, & Hallo, J. HEHD Interdisciplinary Research Innovation Grant. Thinking Globally—Acting Locally: Interactive Mobile Exhibit from Kenya to South Carolina. **\$20,000**. 2013 Funded.
 11. Quigley, C. F., Che, S., **Dogbey, J. K.**, & Hallo, J. Thinking Globally - Acting Locally: Enhancing Environmental Sustainability through an Interactive Mobile Exhibit from Kenya to South Carolina; Sponsored by EPA (Environmental Protection Agency), \$216,000. Not Funded.
 12. Bannister, N. (PI), Williams, C. L. (Co-PI) & **Dogbey, J. K.** (Co-PI). Improving Middle Grades Teacher Quality through the Clemson Mathematics Institute and Video Club. Funded by the South Carolina Commission on Higher Education, Improving Teacher Quality Higher Education Grant Program. **\$88,000**. 2012 Funded.
 13. Quigley, C. F., Che, S., **Dogbey, J. K.** & Halo, J. HEHD Interdisciplinary Research Innovation Grant Investigating Local Sustainable Environmental Perspectives of Kenyan Community Members, Teachers, and Students. HEHD Innovation Grant. **\$49,997**. 2012 Funded.
 14. Quigley, C., Che, S., & **Dogbey, J. K.** Investigating Local Sustainable Environmental Perspectives of Kenyan Community Members, Teachers and Students. University Research Grant Council. **\$9,995**. 2012 Funded.
 15. Headley, K., Gillis, V., Allen, L., McNair, J., Bates, C., Quigley, C., Che, S., Gilbert, J., & **Dogbey, J. K.**, Literacy Empowerment for Youth Development Education in Narok County, Kenya; Sponsored by USAID-US Agency for International Development. **\$299,999.00** Not Funded.
 16. Fisk, W. (PI), Spearman, M. (Co-PI), Che, S. M. (Co-PI), **Dogbey, J. K.** (Co-PI), & Klar, H. (Co-PI). “Clemson University International Leaders in Education Program” awarded by the U.S. Department of State. **\$185,000**. 2012 Funded.

17. Quigley, C. F., Che, S. M., **Dogbey, J. K.**, Oliveira, A., & Speziale, B. PIRE: A Synergistic Approach to Sustainable Environmental Relationships and Values. National Science Foundation **\$4,000,000**. 2011 Not Funded.
18. Fisk, W. (PI), Spearman, M. (Co-PI), Che, S. M. (Co-PI), **Dogbey, J. K.** (Co-PI), & Klar, H. (Co-PI). “Clemson University International Leaders in Education Program” awarded by the U.S. Department of State. **\$185,819**. 2011 Funded.
19. Fisk, W. (PI), Mathews, S. A. (Co-PI), Spearman, M. (Co-PI), Che, S. M. (Co-PI), & **Dogbey, J. K.** (Co-PI). “Clemson University International Leaders in Education Program” awarded by the U.S. Department of State. **\$170,122**. 2010 Funded.

Project ACE (Achievement through Content Expertise), Hillsborough County and Florida Department of Education, Grant Partner (2008)

- I was part of a team of Mathematicians and Mathematics Educators that designed professional development modules in Algebra, Number and Operations, and Geometry, and facilitated the training of presenters and the delivery of the modules at workshops aimed at enhancing mathematics content knowledge of middle school and high school teachers in the Hillsborough County in Florida

Dept. of Education, 21st Century Community Learning Centers \$620,000.

Project FACIA: “Faith-Based Community Integrated Access” (2006)

- I also served as a mathematics consultant for five high school mathematics teachers working on project FACIA of the Institute on Black Life at USF. Project FACIA is a Learning Community Program that provides supplemental after-school academic services for children. This Faith-Based Community Integrated Access project (Project FACIA) is an innovative partnership that seeks to provide broader access to community and university resources for addressing the achievement gap of at-risk, economically disadvantaged and minority children in the Tampa Bay area.

Professional Development Workshops Attended – Teaching Related

1. *Peer Observation Training Workshop*, hosted by the Center for Faculty Excellence (CFE), Texas A&M University - Corpus Christi, TX. (January 2019)
2. *Digital Strategies Symposium*, hosted by Office of Distance Education and Learning Technologies (ODELT) and Programs for Academic Student Support (PASS), Texas A&M University - Corpus Christi, TX. (December 2018)
3. *Multiple Methods of Providing Student Feedback: Faculty Enhancement Workshop Series* hosted by Project GRAD/ODELT, Texas A&M University - Corpus Christi, TX. (May 2018)

4. *Engaging Students in online learning using Blackboard Grade Center: Faculty Enhancement Workshop Series* hosted by Project GRAD/ODELT, Texas A&M University - Corpus Christi, TX. (November 2017)
5. *Distance Education Lecture series and Interactive Workshop by Dr. Darcy Hard: Faculty Enhancement Workshop Series* hosted by Project GRAD/ODELT, Texas A&M University - Corpus Christi, TX. (November 2016)
6. *The Transformative Power of Learning Technologies: Level Up Your Teaching: Faculty Enhancement Workshop Series* hosted by Project GRAD/ODELT, Texas A&M University - Corpus Christi, TX. (May 2016)
7. *NSF-Sponsored Challenge-Based Instruction Faculty Development Workshop: Organized by the Center of Excellence in STEM Education of UTPA, TX.* (March 2015)

SCHOLARLY AND CREATIVE AWARDS AND HONORS

Extraordinary Educator Award: Delta Alpha Pi Student Organization,
Clemson University (2012)

USF Provost Award: \$15,000 (2005)

First Data Western Union Scholarship Foundation Award: \$1,500 (2005)

SERVICE

Service to University Community

Texas A&M University – Corpus Christi (August 2014 – Present)

Service to Department (TAMUCC)

Chair: Search Committee for Professional Assistant Professor position (2018-19)

Member: Department Steering Committee (2017 - Present)

Member: Department Seminar Committee (2017 - Present)

Member: Department Student Recruitment / Math Competition Committee (2017 - Present)

Member: Search Committee for Assistant Professor of Math Education (2017)

Chair: Search Committee for two (2) Visiting Assistant Professor position (2016)

Member: Mathematics Education Committee (2014 - Present)

Coordinator: Family Math Night Steering Committee (January 2014 - Present)

Exhibitor for the Department of Mathematics and Statistics at the 2015 *iDiscovery Safari Education and Career Fair* at the Borchard Fairgrounds in Robstown, Texas

Attendee: Representative for the Dept. of Mathematics & Statistics (2015, 2016) on Island Day

SMTE and M.S. Curriculum Content Track: I have been involved in several meetings/discussions regarding the re-structuring and the growth of our SMTE (Science, Mathematics and Technology Education) and M.S. Curriculum Content Track programs.

Service to College and University (TAMUCC)

Member: College Awards and Scholarship Committee (2017-2019)

Member: University Academic Integrity Committee (2017 - 2020)

Member: University Inclusive Excellence Committee (2015 - 2019)

Clemson University (August 2010 – May 2014)

Chair: School of Education Multicultural Committee (2012 - 2014)

Field Director: Clemson University International Leaders in Education Program

Representative: HEHD Community and Diversity Committee (2012 - 2014)

Member: Undergraduate Academic Eligibility Committee (2011 - 2014)

Member: University Faculty Activity System Steering Committee (2012-2013)

Faculty Advisor: African & Caribbean Students Associations (2011 - 2014)

Member: Search Committee for Social Studies Assistant Professor (2012)

Service to Professional

Editorial Review Board Member: *Journal of Business and Enterprise Development of the School of Business*, University of Cape Coast (2019 – Present).

Editorial Review Board Member: *Caribbean Educational Research Journal (CERJ)*

(2020 – Present).

Treasurer: Coastal Council of Teachers of Mathematics (2016 – Present).

Member: ME by the SEa Conference Steering Committee (2015 – Present).

AP Statistics Reader: The College Board, Kansas City, June 2018.

AP Statistics Reader: The College Board, Kansas City, June 2017.

Department Editor/Co-Editor: *Mathematical Explorations* department of the *Mathematics Teaching in the Middle School* (MTMS) Journal (2009-2013). The MTMS journal is a practitioner's journal of the National Council of Teachers of Mathematics (NCTM) that has won several awards over the years.

Reviewer: *Computers & Education* Journal: May 2014 – Present.

Reviewer: *International Journal of Learning, Teaching and Educational Research:* September 2014 – Present.

Reviewer: *Texas Mathematics Teacher:* July 2017 – Present.

Reviewer: *MathMate* Journal: 2013 – 2014.

Conference Proposal Reviewer: 13th International Congress on Mathematical Education (ICME – 13), Hamburg, Germany (2016)

Conference Proposal Reviewer: Research Council of Mathematics Learning, 39th Annual Meeting, North Carolina (2012).

Panel Review Member 2012: Panel for the selection of International Leaders in Education Program Fellows- a program sponsored by the U.S. Department of State through the International Research and Exchanges Board.

Panel Review Member 2011: Panel for the selection of International Leaders in Education Program Fellows- a program sponsored by the U.S. Department of State through the International Research and Exchanges Board.

AMTE Conference Program Chair Assistant, 2006: Helped prepared the 2006 Association of Mathematics Teacher Educators Conference Booklet (working in collaboration with Dr. Gladis Kersaint - the 2006 AMTE Conference Chair).