

Mwarumba Mwavita, Ph.D.
Professor, Director and Immediate Interim Associate Dean Research and Graduate Studies
College of Education and Human Sciences
Oklahoma State University

SUMMARY OF EXPERIENCE

Academic Leadership:

2022 - Present Professor and Director, College of Education and Human Science Center for Educational Research and Evaluation
2021 - 2022 Interim Associate Dean Research and Graduate Studies College of Education and Human Sciences
2012 - Present Founding Director of Center for Educational Research and Evaluation
2018 - 2021 Coordinator of Graduate Program Certificate on Program Evaluation
2016 - 2017 Associate School Head, School of Educational Studies
2012 - 2014 Co-Program Coordinator Research, Evaluation, Measurement, and Statistics
2007 - 2012 Director, Instructional Research and School Improvement
2005 - 2007 Director of Hypothesis Based Learning Innovation Star School's USDOE Project
1991 - 1997 Principal, High School
1990 - 1991 Deputy Principal High School

Faculty

2022- Present Professor, Research Evaluation Measurement and Statistics
2016 -2022 Associate Professor, Research Evaluation Measurement and Statistics
2012 - 2016 Assistant Professor, Research Evaluation Measurement and Statistics
2009 - 2017 International Visiting Professor for Research
2011 - 2012 Visiting Assistant Professor Research Evaluation Measurement and Statistics
2009 - 2010 Adjunct Professor Research Evaluation Measurement and Statistics
2005 - 2007 Visiting Assistant Professor Research Evaluation Measurement and Statistics

Leadership Training

2022 Harvard Graduate School of Education, Harvard Institutes for Higher Education, Management Development Program (MDP), Harvard University

Diversity, Equity and Inclusion Training

2021 Racial Equity and the Law (REAL) for Leaders, University of Akron, Law School.

Education

■ **Ph.D.** - Educational Psychology - Research, Evaluation, Measurement and Statistic (REMS) Program
Oklahoma State University – Stillwater, Oklahoma, US.

■ **M.A.** - School Administration
University of Central Oklahoma – Edmond, Oklahoma, US.

■ **B.Ed. (Science)** - Major in Education and Physics (Minor: Mathematics)
Kenyatta University, Kenya

ROLES, RESPONSIBILITIES, & INITIATIVES

Professor and Director, Center for Educational Research and Evaluation

Accomplishments

- Development of Center for Prevention Research, Resource, and Intervention on Substance Misuse and Behavioral Health (PRISM), a hub that PRISM merges the disciplines of Human Science Research, Data Analysis, and Prevention Science, creating a dynamic resource, research, and implementation
- Evaluation of AZTEC K-12 Charter school in Oklahoma City, OK 2022 – present.
- Initiated and created interdisciplinary research teams of faculty members to solicit external funding to support translational research.
- Mentored associate and assistant professors in the college.

Interim Associate Dean Research and Graduate Studies College of Education and Human Sciences,

Chief Research Officer of the College of Education and Human Sciences (CEHS) in a land grant, Tier 1 university with over 300 faculty, 4000 enrollment, 100 plus programs, and 3 centers and institutes. In this role, I plan, implement, and coordinate research programs; foster the research and innovation growth and development of faculty, and students; plan and execute research and innovation policies; budget and administer research programs and related activities; and manage fiscal priorities for the CEHS that includes over \$17 million in 2021 raised through grant activities. Direct reports include the CEHS Sponsored Programs Manager and the CEHS for Graduate Education program coordinator. As an Associate Dean of Research and Graduate Studies, I communicate with and coordinate research activities on four schools and three departments in the College of Education and Human Science. In addition, I am work with University's vice President for Research, and all colleges Associate Deans for Research to developing and implementing policies, negotiate and managing start-up funds for new faculty members, and developing innovative collaborations to advance research activities. I serve on the college's leadership team.

Initiatives:

1. *Big 12 Associate Deans for Research*
 - a. Founding *Chair Big 12 Associate Deans for Research- Founded* and Chaired a National Group of Associate Deans of Research whose work is in Research Extensive Institutions across the country. The group has met monthly via electronic platforms, in order to share best practices, develop collaboration among faculty members, create inter-institution research projects to seek large external funding. In addition, I
 - b. Big 12 Research Enhanced Dialogues (Big 12 Red)- Launched the bi-annual Research Enhanced Dialogues webinar for faculty in collaboration with the Associate Deans of Research.
2. Faculty Scholars Program- Designed and implemented a new faculty mentorship program that new faculty in the college attended biweekly in their first year of employment. The program has proved to be instrumental in on boarding, creating a sense of community, collaboration, and safe environment for new faculty member. This has increased retention of new hires, productivity in research activities, publications, and service among new faculty members.
3. Faculty Development and Research Committee- This committee met once a month to guide the college's leadership team on the research and innovative programs that the college and faculty can adopt. In addition, we evaluate the college's centers annually, review and allocate funds to applicants of the college's internal grants competition. Review and nominate college faculty college awards.
4. Led graduate programs coordinators to develop a student recruitment best practices manual for programs, faculty, and staff
5. Graduate Students Advisory Council- The committee meets once a month to discuss issues related with graduate students in the college and provide their input to the leadership team.
5. Professorship and Chairs' Committee- I co-chaired this adhoc committee. We met bi-weekly and developed policies and procedures for the CEHS Professorships and Chairs' programs.
6. Piloted CAYUSE Research Administration software in the College of Education and Human Sciences- now implemented in the universities for all our grant activities.

Accomplishments

- Re-designed the Faculty Scholars Program to include more interactions with their supervisors, faculty members, and their cohort. Developed a proposal for a 3-year Faculty Scholars program.
- Mentored four cohorts of new faculty a total of 25 who are successful in their faculty appointments

- Increased the number of applications for internal funding through publicity and interactions with faculty. E.g., Research JumpStart Accelerator Grant – Six of CEHS faculty members were awarded.
- CEHS had over \$17 Million awards in 2021 – ranking 3rd among six colleges at Oklahoma State University in generating external funding.
- A 6% increase in proposals for external funding during the fourth quarter of 2021.
- With my unit staff and faculty input I initiated a quarterly Research Round up Newsletter that highlights awards funded and faculty publications.
- Facilitated the development of 10 graduate degrees and certificates and reinstated the PhD program in Design, Housing, and Merchandise.
- Restructured and organized the College of Education and Human Science Research and Graduate students by hiring, trained a manager, three grants specialist to support faculty in grant activities
- Created an inclusive culture in the unit where trust, openness, and integrity guide the Research enterprise resulting to empowered team and satisfied faculty.
- Led the Graduate Students Advisory Council to create support system for mental health for graduate students during COVID 19 pandemic
- Led the Faculty Development Research Committee – advising on creation new centers and institutes in the College
 - a. Set up a CEHS Research Email account and quarterly CEHS Research newsletter a. This was to streamline communications from my office.
 - b. Focus on direct contact and communication with faculty instead of routing all emails through myself to department heads to faculty.
 - c. One goal for this year was to show the ADR office as accessible and as an advocate for faculty and students.
 - d. Direct communications support this goal.
 - c. Consolidates funding opportunities into a weekly format.
 - f. Announces upcoming events through a monthly Research-round up communication.
 - e. created numerous metrics to provide departments and the Vice President for Research Office to show return on investment for start-up funding.
 - h. Implemented a streamlined research database within the College to track award proposals and grants received.
 - i. Advocated for additional graduate student funding including scholarship funds to enhance graduate stipends and increased travel grants.
 - j. Facilities a. Lead the CEHS Space and Allocation committee. We met during Fall 2021 and addressed current space concerns and requests as well as allocated money for renovation projects.

Founding Director, Center for Educational Research and Evaluation (CERE), Oklahoma State University

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Responsibilities include to provide methodological expertise in research, evaluation, statistics, and psychometrics to support research, teaching, and outreach missions of Oklahoma State University. Consistent with the Oklahoma State University's Land Grant Mission, a major focus of CERE is to provide support to programs and initiatives that benefit our citizens. Work with Oklahoma schools in the areas of evaluation, professional development training, and grant development. In addition, work with business, industry, and government sectors to provide evaluation services.

Major Accomplishments:

- **Externally**, Engaged the University in a MOU to provide a 7 years capacity building program for faculty in Moi University, Eldoret Kenya that resulted in 30 PhD graduates who are serving in various capacities in their institutions.
- Engaged with State Legislators, Education Union, and community stakeholders to advance education policies on assessment and K-12 accountability system.
- Engaged with Choctaw nation to develop education assessment system that tracks progress of early child education among Pre-3rd students.
- I co-led two statewide projects in collaboration with the Center for Public Policy at the University of Oklahoma to evaluate the Oklahoma Public School's A-F
- **Internally**
 - Generated over \$2 Million to the university through evaluation, consulting, and Co-investigator in federally funded projects
 - Engaged with University Deans to direct grants work to the Center resulting in interdisciplinary grant proposal work across colleges and departments increasing the research productivity of the colleges across university

- Developed and conducted 10 professional development for faculty and graduate students on statistical methods, software and grant proposal development.
- Created and conducted statistical methods to over 200 faculty members increasing their capacity for developing competitive grant proposals
- Served as an external evaluator of over 20 funded projects, consultant in 10, and solicited over 20 internal and external contracts.
- Trained graduate students on evaluation, statistical methods and data analytics.
- Created tutoring center for graduate students enrolled in masters' and doctoral statistical methods courses and served over 200 students.

Associate School Head, School of Educational Foundations, Leadership, and Aviation, College of Education

Responsibilities includes Coordinating and managing the school's seven program's annual and five-year assessment plans by working closely with program coordinators. In collaboration with the School Head, engaged in school's budgeting process, faculty lines negotiations, recruitment, and retention. In addition, I engaged in annual faculty performance evaluation (A&D).

Major Accomplishments:

- In collaboration with the head managed the school budget of seven t programs (Education leadership, Higher Education, Social Foundations, Research and Evaluation, Education Technology, Aviation, Education Psychology) and 35 tenure track and 40 teaching instructors
- Created faculty collaborative teams to develop assessment rubrics to measure the school's program outcomes
- Led multidisciplinary collaborative research teams resulting to an increase in publications, presentations, and grant funding in the school
- Streamlined the process of online submission of the seven programs' assessment both annual and five year plans to the University.
- Successfully negotiated faculty lines for our programs.
- Instrumental in recruiting diverse faculty in seven of our programs

Faculty Representative in College of Education Leadership Team

- Led a strategic initiative to reorganize the College's three schools to four efficient schools, in collaboration with two faculty representatives in the college.
- Initiated recruitment and retention strategies of high caliber diverse faculty to various programs in the college.

Co-Program Coordinator- Research, Evaluation, Measurement and Statistics(REMS)

- Developed new course offerings and certificate programs that increased our student enrollment
- Instrumental in moving our course offerings to online.
- Led the recruitment of minority faculty members in the program
- Developed students' recruitment programs that led to increase in students enrollment in the program.
- Redesigned the programs assessment plan that resulted in improved course delivery, marketing, and growth.
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Director of School Improvement and Instructional Research, Western Heights School District, Oklahoma City, Oklahoma

The school district had 4 elementary schools, a fifth-grade center, middle school, a ninth-grade center, a high school and an academy with over 4000 students and 200 teaching faculty.

Responsibilities include managing the daily operation of the unit of which included 4 assessment team, 5 IT specialist, 10 administrators and 20 master teachers. Led external funding efforts for the district, provided professional development on research-based instruction practices based on my analyses on the school data. Provided research policies related to instruction to the administration.

Major Accomplishments:

- In collaboration with the district superintendent, engaged businesses to support the school's activities resulting in Bridgestone company donating land to build a fifth-grade center.
- Engaged chamber of commerce and business community to support the shoes initiative for students without shoes in the school
- Collaborating with community college and career tech to provide college and technical credits for high school students.
- Created professional learning communities in each of the 8 sites in the district that changed the school climate to be inclusive, open to learning, and student centered.

- Developed a longitudinal model that measures students' education outcome that was highlighted by US Department of Education publications, national conference presentation, as well as the College of Education Vanguard publication in 2014.
- Developed a grant proposal that was awarded \$900,000 by Inasmuch foundation, to develop a longitudinal data system to guide learning and instruction for the school district.
- In conjunction with a technology company, we developed a near-real-time student information system that students, parents, teachers, and administrators can get any information regarding their specific student.

Principal High School, Nyeri Kenya

The school was co-education boarding institution with a total of 400 students, 25 teachers, and 30 support staff.

Responsibilities include the day to day operation of the school, budget development and management, hiring, training, and appraisal of teachers and employees. In addition, fund raising and maintaining high standard of excellence in education and co-curricular activities.

Major Accomplishments:

- Recruited and retained highly qualified teachers which resulted in 4 years of academic excellence in national standardized examination of Kenya.
- Led fundraising campaign of equivalent to \$2Million to build a modern fully equipped science laboratory, a school bus and pay raises for teachers and staff.
- Increased student retention from 85% to 97% in a period of 5 years through implementing a culture of engagement and value for students and their families.

Entrepreneurial Leadership

President and Founder Research, Evaluation, Education and Statistics (RESE) LLC.

Major Accomplishments:

- Consultant Social enterprise curriculum and practice – Ministry of Education, Youth, and Sports Belize, Central America
- Evaluation Lead – NASA Diversity Deep Study; Longitudinal Study; Workforce and Career Readiness Study
- Community of Practice Expert on State's Education Longitudinal Information Systems– US Department of Education, Washington, DC
- Equity and Inclusive teaching Professional Development for teachers in Western Heights School District, OK

Vice-President of eREAD, Albuquerque, New Mexico

Major Accomplishments

- Developed a tutoring and adult learning center for low socio-economic community in Albuquerque, NM
- Led community-based initiative to raise funds to build and support social and education programs for underserved students in the city of Albuquerque
- Evaluated a technology project of students in Santa Fe, NM funded by NSF (\$300,000)
- Created two school charters for underrepresented minorities in NM funded by the New Mexico State Department of Education

Board Service Leadership

Youth Medical Mentorship LLC, Tulsa, OK (<https://youthmedicalmentorship.org/>)

- Board member in charge of Program's evaluation and assessment of impact
- Chief statistician and research methodologist developing predictive models and institutional partnerships

Co-Chair – Oklahoma State University Institutional Diversity Community Advisory Board

Sunnybrook C. School, Stillwater, OK

Programs and Schools Accreditation assignments

Oklahoma State University

- Nursing program
- Counselling program
- School psychology program
- AZTECH Charter School, Oklahoma City, OK

Cognia (<https://www.cognia.org/>)

- Miami Dade County School District, FL
- Hillsborough County School District, FL
- Palm Beach County School District, FL

Scholarship

Peer Reviewed Journal Articles

Public Health, Kinesiology, Exercise Science

- Foubert, J. D., **Mwavita, M.**, Hunger, K; Kao, W., & Pittman-Adkins, P. (2022). Prediction of Bystander Intervention Behavior in a Sexual Assault Situation: The Role of Religiosity, Empathy, and Gratitude, *Dignity: A Journal of Analysis of Exploitation and Violence*: Vol. 7: Iss. 1, Article 8. <https://doi.org/10.23860/dignity.2022.07.01.08>
- Zahl, M.L., Bateman, M., DeFreitas, J. D., **Mwavita, M.**, & Horneber, G. (2020). The role of recreational therapy and allied therapies in rehabilitation after spinal cord injury. *Therapeutic Recreation Journal*; 54(1). 1-16.
- Pearson, R., & Baghurst, T., & **Mwavita, M.** (2020). Stress experienced by intercollegiate swimming head coaches. *International Sport Coaching Journal*, 1-7
DOI: <https://doi.org/10.1123/iscj.2019-0030>
- Zahl, M. L., Horneber, G., Piatt, J. A., & **Mwavita, M.** (2017).The Role of Recreational Therapy in the Treatment of a Stroke Population. *Annual in Therapeutic Recreation*, 24, 26-37.
- Zahl, M. L., DeVries, D., Pollock, W. & **Mwavita, M.** (2017). ATRA Code of Ethics: Impressions from the Profession. *Annual in Therapeutic Recreation*, 24, 38-50
- Baghurst, T., **Mwavita, M.**, Tapps, T., Volberding, J., & Jayne, C. (2014). Effect of a 14-week program to reduce employee risk factors for Metabolic Syndrome (MetS). *Health Behavior and Policy Review*, 6, 446-451.
- Baghurst, T., & **Mwavita, M.** (2014). Evaluation, rationale, and perceptions regarding fitness testing in physical education teacher education programs. *The Global Journal of Health and Physical Education Pedagogy*, 3, 348-364.
- Baghurst, T., **Mwavita, M.**, Volberding, J., Brown, T., Murray, S. B., Galli, N., Parish, A., & Griffiths, S. (2014). Reevaluation of physique protection as a characteristic of muscle dysmorphia. *North American Journal of Psychology*, 16, 565-576.
- Vlahov, E., Baghurst, T., & **Mwavita, M.** (2014). Preschool motor development predicting high school health-related physical fitness: A prospective study. *Perceptual and Motor Skills*, 119, 279-291
- DeVault, N., Kennedy, T. S., Hermann, J., **Mwavita, M.**, Rask, P., & Jaworsky, A. (2009). It's All about Kids: Preventing Overweight in Elementary School Children in Tulsa, Oklahoma. *Journal of the American Dietetic Association*, 109(4), 680-687.
- Biostatistics, Evaluation, Pedagogy, and Interdisciplinary*
- Muteti, C. Z., Kerr, T., **Mwavita, M.**, & Mutambuki, J. M. (2022). Blending muddiest point activities with the common formative assessments bolsters the performance of marginalized student populations in general chemistry. *Chemistry Education Research and Practice*, 2022, DOI: 10.1039/D1RP00314C
- Van Tonder, E., Sunders, S. G., **Mwavita, M.**, & Kim, S. (2021). Customer helping advocacy behaviours within dyadic financial service relationships: a gift-giving perspective. *International Journal of Banking Marketing*
[doi/10.1108/IJBM-04-2021-0134/full/html](https://doi.org/10.1108/IJBM-04-2021-0134/full/html)
- Powell, S. L., Duhon, G., Poncy, B. C., **Mwavita, M.**, & Englen, A. J. N. (2020). Distributed Practice in Math

- Jacinta M. Mutambuki, **Mwarumba Mwavita**, Caroline Z. Muteti[□], Brooke Jacob[§], and Smita Mohanty^{**}. Metacognition and Active Learning Combination Reveals Better Performance on Cognitively Demanding General Chemistry Concepts than Active Learning Alone. *ACS, J. Chem. Educ.* **2020**, 97(7)1832–1840. <https://dx.doi.org/10.1021/acs.jchemed.0c00254>. The study, among others, was featured in the chemical and engineering news (c&en), **September 4, 2020**: <https://cen.acs.org/education/undergraduate-education/Weeding-inequity-undergraduate-chemistry-classes/98/i34>, *Impact Factor 2019: 1.4*.
- Caroline Z. Muteti, Carolina Zarraga[§], Brooke I. Jacob[§], Tuli M. Mwarumba[§], Dorothy B. Nkhata^δ, **Mwarumba Mwavita**^{**}, Smita Mohanty^{**}, Jacinta M. Mutambuki. I realized what I was doing was not working: the influence of explicit teaching of metacognition on students' study strategies in a general chemistry I course. *Royal Society of Chemistry, Chemistry Education Research and Practice*, Pub Date: 2020-10-02, **Chem. Educ. Res. Pract.**, **2021**, *Advance Article*, <https://pubs.rsc.org/en/content/articlelanding/2021/rp/d0rp00217h#!divAbstract>, *Impact Factor 2020: 2.4*.
- Cole, K., Kim, S., & **Mwavita, M.** (2019). A comparison of linear, equipercentile, and FIPC equating methods across multidimensional test forms for nonequivalent groups. *International Journal of Quantitative Research in Education*, 4(4), 293-309. Doi:10.1504/IJQRE.2019.100168
- Kim, S., Cole, K., & **Mwavita, M.** (2018). FIPC Linking Across Multidimensional Test Forms: Effects of Confounding Difficulty within Dimensions. *International Journal of Testing*, 18(4), 323-345. DOI: 10.1080/15305058.2018.1428980.
- Gordon, S. R. & **Mwavita, M.** (2018). Evaluating the international dimension in an undergraduate curriculum by assessing students' intercultural sensitivity. *International Studies in Educational Evaluation*. doi.org/10.1016/j.stueduc.2018.03.005
- Strunk, K. K., Lane, F. C., & **Mwavita, M.** (2017). Changes in time-related academic behavior across time are associated with contextual motivational shifts. *Educational Psychology*.doi:10.1080/01443410.2017.1384535
- Adams, C. M., Forsyth, P. B., Ware, J. K., **Mwavita, M.**, Barnes, L., & Khojasteh, J. (2016). An empirical test of Oklahoma's A-F grades. *Education Policy Analysis Archives*, 24(4), 1-26 <http://dx.doi.org/10.14507/epaa.v24.2127>
- Mosely, C. Utley, J., Angle, J. & **Mwavita, M.** (2016). Development of the Environmental Teacher Efficacy Beliefs Instrument. *School Science and Mathematics*, 116 (7), 389-398.
- Curry, K. A., **Mwavita, M.**, Holter, A., & Harris, E. L. (2015). Getting assessment right at the classroom level: Using Formative Assessment for Decision-Making. *Educational Assessment, Evaluation and Accountability*. *Educational Assessment, Evaluation and Accountability*. doi: 10.1007/s11092-015-9226-5.
- Sanders, J., Parsons, S.C., **Mwavita, M.**, Thomas, K. (2015). A collaborative autoethnography of literacy professional development work in a high-needs environment. *Studying Teacher Education*, 11(3). DOI: 10.1080/17425964.2015.1071251
- Bowser, J. T., **Mwavita, M.**, Al-sakini, A., McGlynn, W., & Maness, O. N. (2014). Quality and shelf life of fermented lamb meat sausage with rosemary extract. *The Open Food Science Journal*, 8, 22-31
- Odunga, R. M., Nyangweso, P. M., Carter D. A., **Mwavita, M.** (2013). Credit Risk, Capital Adequacy and Operating Efficiency of commercial Banks in Kenya. *International Journal of Business and Management Invention*, 2 (9), 6-12.
- Boss, K.K., Depperschmidt, C.L., **Mwavita, M.**, & Bliss, T.J. (2013, Fall). Characteristics of Pilots Involved in U.S. Air Carrier Accidents between 1991 and 2010. *Collegiate Aviation Review* 31, (2) pgs. 14-38.
- Stewart, J. Antonenko, D. P., Robinson, J. S. & **Mwavita, M.** (2013). Intrapersonal factors affecting technological pedagogical content knowledge of Agriculture education teachers. *Journal of Agricultural Education*, 54(3), 157-170.
- Mulia, W. D., Fritz, D. J., Sohoni, S. A., Kearney, K. S., & **Mwavita, M.** (2013). PLP: A Community Driven Open Source Platform for Computer Engineering Education. *International Journal of Engineering Education*, 29(1), 215-229.

- Mendez, J. P., Curry, J., **Mwavita, M.**, Kennedy, K., Weinland, K., & Bainbridge, K. (2009). To friend or not to friend: Academic interaction on Facebook. *International Journal of Instructional Technology and Distance Learning*, 6(9), 33-47
- Mwavita, M.**, Miller, J., & Harris, L. E. (2007). Attendance matters: A method for utilizing standardized test scores for site-specific data-driven decision-making. *Journal of Oklahoma Association for Supervision and Curriculum Development*, 14, 23-27.
- Sargent, E. S., & **Mwavita, M.** (2005). Extra! Extra! Read all about it! Newspapers impact students' reading attitude. *Balanced Reading Instruction*, 12, 105-115.
- VanDorn, K., **Mwavita, M.**, Montes, L., Ackerson, J. B., & Rockley, M. (2004). *Hypothesis-based learning*. *Science Scope*, 27, 24-25
- Mutua, K. N., Miller, W. J., & **Mwavita, M.** (2002). Resource utilization by children with developmental disabilities in Kenya: Discrepancy analysis of parents' expectation-to-importance appraisals. *Research in Developmental Disabilities*, 23 (3), 191-201.

Refereed Conference Proceedings

STEM and Education

- Vaidyanathan, R., **Mwavita, M.**, & Sarin, P. (2020). *Exposure of undergraduate research students to entrepreneurial activities to motivate future research careers*. Paper presentation at the American Society for Engineering Education (ASEE) Virtual Conference. University of Maryland, MD: June 22-J 26.
Retrieved from: <https://www.asee.org/public/conferences/172/papers/31472/view>
- Cecil, J., Ramanathan, P. & **Mwavita, M.** (October, 2013). *Virtual learning environments in Engineering and STEM Education*. Frontiers in Education Conference (FIE). Oklahoma City, OK.
- Fritz, D., Mulia, W., Sohoni, S, Gordon, B., Kearney, K. & **Mwavita, M.** (2011). *The Progressive Learning Platform for Computer Engineering*. American Society for Engineering Education (ASEE), 119th Annual Conference & Exposition Proceedings. Vancouver, BC.
- Mwavita, M.** (2006). *Self-regulated learning and classroom engagement in calculus achievement among freshmen engineering students*. American Society for Engineering Education (ASEE), 113th Annual Conference & Exposition Proceedings. Chicago, IL
- Mwavita, M.** & Thompson, D. (2006). *Help-seeking behavior among freshmen engineering students: A predictor of calculus performance*. American Society for Engineering Education (ASEE), 113th Annual Conference & Exposition Proceedings. Chicago, IL
- Muteti, C. **Mwavita, M.** Zarrang, C., Brooke, J, Mohanty, S., & Mutambuki, J. M. (March, 2020). *Combined metacognition with active learning reveals significantly higher performance scores in general chemistry than active learning alone*. 2020 Biennial Conference on Chemical Education. Abstract accepted March 31, 2020. Because of the global COVID-19 pandemic, the 2020 Biennial Conference on Chemical Education was terminated on April 2, 2020, by the Executive Committee of the Division of Chemical Education, American Chemical Society; and, therefore, this presentation could not be given as intended.
- Mutambuki, J. M., **Mwavita, M.**, Muteti, C. Z., Brooke, J, & Mohanty, S. (August 2020). *Explicit teaching of metacognition combined with active learning shows lower DFWs in a general chemistry course*. ACS Fall 2020 Virtual Meeting & Exposition (Online), August 17-20.
- Mwavita, M.**, Vaidyanathan. K. & Sarin, P. (October, 2017). *Evaluation of a Summer Undergraduate Research Program in Material Science Engineering*. Annual Mid-West Conference of the Association of Engineering Educators (ASEE). Stillwater, OK.
- Lagat, C., **Mwavita, M.**, Frankwick, G. (November, 2017). *Innovation types and performance of manufacturing firms in Kenya*. Academy for Global Business Advancement 14th Annual World Congress. Eldoret, Kenya.
- Mwavita, M.**, & Curry, K. (May 2017). *A multilevel approach to analysis of student grit and school climate*. The seventh annual Modern Modeling Methods Conference. Storrs, CT.

Larzelere, E. B., **Mwavita, M.**, Swindel, T., Cox, R., & Washburn, I. (2015). *Checking for robustness of longitudinal results across two types of gain scores*. Modern Modeling Methods Conference, University of Connecticut, Storrs, CT.

Mwavita, M. & Adams, C. (May, 2015). *An Empirical test of Accountability Policy: A-F School Grades*. Modern Modeling Methods Conference, University of Connecticut, Storrs, CT.

Sanders, J., Parsons, S., & **Mwavita, M.** (2013). *A collaborative autoethnography of literacy professional development in a high-needs environment: Our challenges, successes, and changes*. Literacy Research Association. Dallas, TX. Retrievable at <https://secure.literacyresearchassociation.org/papers/lra201312316146.pdf>

Books- Biostatistics and Research Design

Strunk, K. K. & **Mwavita, M.** (2021). *Design and Analysis in Educational Research: ANOVA Designs in jamovi*. New York, NY: Routledge/Taylor and Francis group

Strunk, K. K. & **Mwavita, M.** (2020). *Design and Analysis in Educational Research: ANOVA Designs in SPSS*. New York, NY: Routledge/Taylor and Francis group

Book Chapters

Biostatistics

Mwavita, M. (2021). A brief introduction to statistical modeling for disaster and emergency management research. In J.D. Rivera (Ed.), *Disaster and emergency management methods: Social science approaches in application (242-267)*. New York: Routledge Doi: <https://doi.org/10.4324/9780367823948>

International Educational Issues

Mwavita, M. (2019). **Education research in the 21 st century**. In K. Mutua & C. S. Sunal (Eds.), *Transforming public education in Africa, Caribbean, and the Middle East*. Charlotte, NC: Information Age

Mwavita, M. (2010). Living in a Liminal Space: Identity Challenges and Opportunities in America's Teacher Preparation Programs. In F. E. Obiakor, P. Grant, & S. O. Obi (Eds.), *Voices of foreign-born African American teacher educators in the United States*. 129-136. New York: Nova Science Publishers.

Mwavita, M. (2007). Research and practice in education. In K. Mutua & C. S. Sunal (Eds.), *Reflections and hope to voiceless constituents in Kenyan educational system*. 61-80. Charlotte, NC: Information Age

Manuscripts currently under peer review

Mwavita, M., Foubert, J., Hunger, K., & Kao, W, K. & Pitman, P. (manuscript ready for submission) *A Factor Analysis of the Barriers to Bystander Intervention Scale: Implications for Program Evaluation*

Manual and Guides with National Readership

Instructional Improvement Systems Planning and Implementation Guide. *US Department of Education*, Washington, DC. July 2014.

Traveling Through Time: The Forum Guide to Longitudinal Data series. *National Center for Educational Statistics*, Institute of Education, Statistics. Washington, DC, 2011.

Other publications (Biostatistics instructional)

Strunk, K. K., **Mwavita, M.**, & *Hoover, P.D. (2021). *Design and analysis in educational research: ANOVA design case studies for teaching race, racism, and Black Lives Matter*. Routledge.

Articles in Journals with National Readership, Not Referred (* = publication with student)

Mwavita, M., Perry, K., & Wilkey, S. *How Do You Conduct an Evaluation in a Fluid, Ever Changing Ecology Like Higher Education?* AEA 365 – A tip for the day, July 2013

Articles in the Media (International)

Love Staff. (2022, July 29). Belize students in College of Education and Human Sciences doctoral program. Love FM. <https://lovefm.com/belize-students-in-college-of-education-and-human-sciences-doctoral-program/>

Mwavita, M. (2021). Coding for girls: a glimmer of hope in a coding boot-camp[Africa Renewal]. Retrieved from:
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Mwavita, M. (2020, November 19th). Data or Fiction: How one's perspective of data influences decision making [Modern Ghana].
Retrieved from: <https://www.modernghana.com/news/1043964/fact-or-fiction-how-ones-perspective-of-data.html>

Mwavita, M. (2020, November 19th). Data or Fiction: How one's perspective of data influences decision making [Myjoyonline].
Retrieved from: <https://www.myjoyonline.com/dr-mwarumba-mwavita-how-ones-perspective-of-data-influences-decision-making/>

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White Papers/Research and Evaluation Reports(NSF, NASA, Foundations, State)

National Aeronautics and Space Administration (NASA)

Mwavita, M., Smith, M. B., & Black, A. (2021). Workforce and Early Career Readiness Evaluation Study Plan FY 22. National Aeronautics and Space Administration (NASA) Office of STEM engagement.

Smith, M. B., **Mwavita, M.** & Black, A. (2021). Cross-Project Institutional Capacity Evaluation Plan. National Aeronautics and Space Administration (NASA) Office of STEM engagement

Mwavita, M. & Jillian, L. (November, 2021). *FY 21 Early Career Readiness Evaluation study report*. National Aeronautics and Space Administration (NASA) Office of STEM engagement.

Black, A., Boyd, H., Gleason, B., & **Mwavita, M.** (2021). MUREP Program-Level: Evaluation phase II final report. National Aeronautics and Space Administration (NASA) Office of STEM engagement.

Mwavita, M. & Jillian, L. (November, 2020). *Early Career Readiness Evaluation Plan study*. National Aeronautics and Space Administration (NASA) Office of STEM engagement.

Mwavita, M. & Jillian, L. (November, 2020). *Early Career Readiness Literature Review and Benchmarking Study*. National Aeronautics and Space Administration (NASA) Office of STEM engagement. NASA Glenn Research Center, Cleveland, OH.

Gooding, A. E. K. & **Mwavita, M.** (September, 2020). *Pilot Longitudinal Evaluation Study*. National Aeronautics and Space Administration (NASA) Office of STEM engagement. NASA Glenn Research Center, Cleveland, OH.

Gooding, A. E. K. & **Mwavita, M.** (August, 2020). *Diversity Deep Dive Evaluation Study*. National Aeronautics and Space Administration (NASA) Office of STEM engagement. NASA Glenn Research Center, Cleveland, OH.

National Science Foundation (NSF)

Barnes, L. & **Mwavita, M.** (2019). *Transitioning students to teacher-researchers annual report year two* for NSF (CERE-2019-001). Stillwater, OK: Center for Educational Research and Evaluation, Oklahoma State University.

Mwavita, M. (2019). *Research experience for undergraduate in Material Science annual report year three* for NSF (CERE-2019-001). Stillwater, OK; Center for Educational Research and Evaluation, Oklahoma State University.

Mwavita, M. (2018). *Research experience for undergraduate in Material Science annual report year two* for NSF (CERE-2018-001). Stillwater, OK; Center for Educational Research and Evaluation, Oklahoma State University.

Barnes, L. & **Mwavita, M.** (2018). *Transitioning students to teacher-researchers annual report year one* for NSF (CERE-2018-001). Stillwater, OK: Center for Educational Research and Evaluation, Oklahoma State University.

Mwavita, M. (2017). *Research experience for undergraduate in Material Science annual report year one* for NSF (CERE-2017-001). Stillwater, OK; Center for Educational Research and Evaluation, Oklahoma State University

Foundation

Choctaw Nation Tribe of Oklahoma

Mwavita, M., Davenport, J., Utley, J., & Banks, E. (2019). *Choctaw Nation Partnership of Summer School Education (POSSE): Influence on Reading and ELA Evaluation Report* (CRSTL-2019-002). Stillwater, OK: Center for Research on STEM Teaching and Learning, Oklahoma State University.

State and local entities

Adams, C. M., Forsyth, P. B., **Mwavita, M.**, Barnes, L. B., Dollarhide, E., Miskell, R., Ware, J. Jean-Marie, G. Garland, P. (2013). Oklahoma school grades: Hiding “poor” achievement. A Report by the Oklahoma Center on Education Policy and the Oklahoma Center for Educational Research and Evaluation.

Adams, C. M., Forsyth, P. B., Barnes, L. B., **Mwavita, M.**, Dollarhide, E., Miskell, R., Ware, J. Jean-Marie, G. Garland, P. (2012). An examination of the Oklahoma state department of education’s A-F report card. Commissioned by OSSBA and CCOSA.

Perry, K., **Mwavita, M.**, Fuqua, D., Wilkey, S., Celina, M. & Inman R. (2013). Learning and student success opportunity (LASSO): Formative Evaluation Report. Office of the Provost, Oklahoma State University.

Kitchens, J., **Mwavita, M.** & McLaughlin, L. (April 2010). Classroom-centric longitudinal data system: A foundation for effective and sustainable enterprise-based longitudinal data systems. White paper on how data can be used to inform Educational Outcomes presented to the Committee on Education & Labor US House of Representatives.

Perry, K., **Mwavita, M.**, Lee, C. Mitchell, T., & Barnett, D. (2007). Needs assessment of counseling services in Payne County Oklahoma: Final Report.

Lindeman, K. & **Mwavita, M.** (2004). The community computer lab summer enrichment program evaluation report. Albuquerque, NM.

Wilson, P. L., **Mwavita, M.**, & Lindemann, K. (2003). Evaluation report of the 1st summer workshop: Adventure in modeling integrated information technology into the curriculum through computer modeling approaches. MIT-Boston: MA and SFI-Santa Fe: NM

Mwavita, M., Long, B. R., (2002). Oklahoma environmental education needs assessment. Oklahoma City, OK.

Mwavita, M. (2000). The Leadership and educational climate of Sangre Ridge Elementary School: Stillwater, OK: Sangre Ridge Elementary School

Work in Progress

Public Health

Tackett, A. P. & **Mwavita, M.** *Relationship between the student level report of alcohol, tobacco/e-cigarette, marijuana use perception of harm and the distance/density of alcohol and or tobacco retailers* **[data analysis phase]**

Mwarumba, N. & **Mwavita, M.** Sources rural communities in Kenya rely on COVID 19 information: Acausal comparative study [Analysis phase]

Baghurst, T., **Mwavita, M.**, Procedures and Reasoning for Skill Testing in Physical Education Teacher Education Programs" submitted to the Journal of Teaching in Physical Education. *Manuscript submitted for publication. Revise and resubmit letter received revision underway.*

Foubert, J., **Mwavita, M.**, & Pitman, P. (data analyzed and manuscript in progress). Do Barriers to bystander intervention factors influence intervening of sexual violence?

Foubert, J.D., **Mwavita, M.** & Pittman, P. Testing a mediational model of dispositional gratitude as it relates to bystander intervention in a sexual assault situation. *[Data collected analysis in progress.]*

Caroline Z. Muteti, **Mwarumba Mwavita**, Tracy Kerr, Jacinta M. Mutambuki. * Uncovering Learning Blind Spots: The Effect of Classroom Assessment Techniques Activities Coupled with Traditional Formative Assessments on Performance in General Chemistry 1 Course (*To be submitted in January 2021*).

Biostatistics

Mwavita, M. *Multiple Regression in social sciences*: [Two chapters and table of contents completed – to publishers for review in 2022]

Angle, J. & **Mwavita, M.** (Revisions for submission) Construction and Validation of the Views of Nature of Science Scoring Rubric. STEM

Strunk, K. K., Beswick, C. S., Fowlkes, C., & **Mwavita, M.** Gendered dynamics in student expectancy-value motivation for gateway STEM courses. *Manuscript submitted for publication. Revise and resubmit letter received revision underway.*

Peer Reviewed Conference Presentations

Mutua, K., Mugoya, T., Williamson, M. A., & **Mwavita, M.** (April 2023). *Vlogging as a Form of Self-Presentation by College-age Students with Intellectual Disabilities: An Exploratory Study*. Paper presentation at the American Educational Research Association (AERA) Annual Conference, Chicago, IL

Vaidyanathan, R. **Mwavita, M.** & Sarin, P. (August 2019). *Exposure of undergraduate research students to entrepreneurial activities: leveraging NSF Innovation Corps and REU programs*. Paper presentation at the 10th North American Materials Education Symposium, Stanford University, Stanford, CA, August 8-9, 2019.

Mwavita, M., Gajan, R., Sarin, P., Vaidyanathan, R., Slack, A., & Bartosik, K. (April 2019). *Exposure of undergraduate research students to entrepreneurial activities-leveraging NSF research experiences for undergraduates and innovation Corps program successes and challenges*. Paper presentation at the 11 th International Materials Education Symposium (IMES). Clare College, Cambridge, UK

- Mutua, K., Williamson, M. A., **Mwavita, M.**, & English, H. (April 2019). *College of students with intellectual disabilities? Boldly going where others have gone before*. A roundtable session at the American Educational Research Association (AERA) Annual Conference, Toronto, Canada.
- Mwavita, M.**, Vaidyanathan. K. & Sarin, P. (August 2018). *Evaluation of Oklahoma State University Material Science Research Experience for Undergraduates*. A poster presentation at the 9th North American Materials Education Symposium. University of Michigan, Ann Arbor, MI.
- Lagat, C., **Mwavita, M.**, Frankwick, G. (November 2017). *Innovation types and performance of manufacturing firms in Kenya*. A paper presentation at the Academy for Global Business Advancement 14th Annual World Congress. Eldoret, Kenya.
- Mwavita, M.**, Vaidyanathan. K. & Sarin, P. (October 2017). *Evaluation of a Summer Undergraduate Research Program in Material Science Engineering*. A paper presentation at the Annual Mid-West Conference of the Association of Engineering Educators (ASEE). Stillwater, OK.
- Mwavita, M.**, & Curry, K. (May 2017). *A multilevel approach to analysis of student grit and school climate*. A paper presentation at the seventh annual Modern Modeling Methods Conference. Storrs, CT.
- Ford, T. G., Adams, C. M., Forsyth, P. B., Ware, J., Olsen, J. J., Lepine, J. A., Barnes, L. L. B., Khojasteh, J., & **Mwavita, M.** (April 2017). *Exploring the limitations of composite accountability indicators: A longitudinal analysis of Oklahoma's A-F school grade system*. A paper presentation at the American Educational Research Association (AERA). Annual Conference. San Antonio, TX.
- Mwavita, M.**, Barnes, L.B., Khojasteh, J., & Adams, C. M. (2016) *An Empirical Test of A-F school grades*. A poster session at the American Educational Research Association (AERA) Annual Conference, Washington, DC.
- Curry, K. M., Gaetane, J.M., & **Mwavita, M.** (May 2016). *Examining the relationship between self-regulatory climate and student grit in an urban school district*. A poster session at the American Educational Research Association (AERA) Annual Conference, Washington, DC.
- Mutua, K. & **Mwavita, M.** (May 2016). *Un-reading risk: Maternal factors in childhood disability in Kenya*. A symposium at the American Educational Research Association (AERA) Annual Conference, Washington, DC.
- Strunk, K., Forest, L. & **Mwavita, M.** (July 2016). *Time-Related Academic Behavior: State or Trait? A Cluster Invariance Study*. A poster session at the American Psychological Association (APA) Annual Conference, Denver, CO.
- Matlock, K., Kim, S., & **Mwavita, M.** (August 2016). *A Comparison of Linear, Equipercentile, and FIPC Equating Methods across Multidimensional Test Forms for Nonequivalent Groups*. Poster presented at the annual conference of the American Psychological Association annual conference, Denver, CO.
- Mwavita, M.** & Cochran, D. (September 2016) *Program Evaluation and Cost benefit analysis methods*. A symposium at the Developmental Methods Conference, Whitefish, MT.
- Gordon, S. & **Mwavita, M.** (October 2016). *Assessment in Higher Education, diversity, student learning*. Round table session at the American Evaluation Association (AEA) Annual Conference, Atlanta, GA.
- Hunger, K., Kao, W., Kim, S., & **Mwavita, M.** (October 2016). *An Evaluation of the LIFE Adult Day Center (LIFE Center): An Objectives-Oriented Approach*. Presented at the annual conference of the American Evaluation Association, Atlanta, GA.
- Kim, S., Matlock, K., & **Mwavita, M.** (July 2016). *FIPC Equating Across Multidimensional Test Forms for Nonequivalent Groups*. Presented at the annual conference of the International Testing Commission, Vancouver, Canada.
- Mwavita, M.** & Adams, C. (May 2015). *An Empirical test of Accountability Policy: A-F School Grades*. Modern Modeling Methods Conference, University of Connecticut, Storrs, CT.
- Hunger, K., Kang, W., Perry, K., & **Mwavita, M.** (November 2015). *An Evaluation of the Learning and Student Success Opportunity (LASSO) Center: An Objectives-Oriented Approach*. American Evaluation Association (AEA) Annual Conference, Chicago, IL.

- Gordon, S. & **Mwavita, M.** (November 2015). *Utilizing the Theory-Based Evaluation Approach for Exemplary Evaluations in Higher Education*. American Evaluation Association (AEA) Annual Conference, Chicago, IL.
- Gordon, S. & **Mwavita, M.** (November 2015). *Assessing Diversity as a Learning Outcome in Higher Education*. American Evaluation Association (AEA) Annual Conference, Chicago, IL.
- Larzelere, E. B., **Mwavita, M.**, Swindel, T., Cox, R., & Washburn, I. (2015). *Checking for robustness of longitudinal results across two types of gain scores*. Modern Modeling Methods Conference, University of Connecticut, Storrs, CT.
- Gordon, W. S., **Mwavita, M.**, & Perry, K. (October 2014). *Why Understanding Perceptions of Evaluation is Important When Creating Visionary, Sustainable Evaluation Practices in Higher Education?* American Evaluation Association (AEA) Annual Conference, Denver, CO.
- Mwavita, M.** (September. 2014). *Best practices in Program Evaluation: Evaluator competencies*. Society for Research in Child Development Developmental Methodology, conference. San Diego, CA.
- Curry, A, K., **Mwavita, M.**, Holter, A. & Harris, E. (November 2014). *A Teacher-Centered Approach to Data Use: Getting Assessment Right at the Classroom Level* Annual Education Leadership Conference, Denton, TX
- Mwavita, M.** (June 2014). *Use of Achievement scores to measure school performance: Does it work?* Work smarter, not harder University of North Texas Workshop, Denton, TX.
- Sargent, E. S, Smith, M. & **Mwavita, M.**, Moreland, M. & Swanson, M. (November 2013) *Developing a Prediction Equation for a Standardized Test of Achievement*. Annual Conference of the Association of Literacy Educators and Researchers (ALER). Dallas, TX.
- Perry, K., **Mwavita, M.**, & Wilkey, S. (October 2013). *Why evaluate? Motivational factors in an organizational context*. American Evaluation Association (AEA) Annual Conference, Washington, DC.
- Boss, K.K., Depperschmidt, C.L., **Mwavita, M.**, & Bliss, T.J. (2013, November). *Pilot characteristics of U.S. air carrier accidents between 1991 and 2010*. Paper presented at the University Aviation Association Fall Conference, San Juan, Puerto Rico.
- Parsons, S., Sanders, J., & **Mwavita, M.** (2013). *A collaborative autoethnography of literacy professional development in a high needs environment*. Literacy Research Association. Dallas, TX.
- Mwavita, M.** & Mutua, K. (May 2013). *Embodied Rhetoric: Decolonizing Disability in Swahili Text*, American Education Research Association (AERA) Annual Conference, San Francisco, CA.
- Laterza, M. C., Yetter, G. & **Mwavita, M.** (April 2013). *Race, Family Intactness, Pre-Kindergarten Attendance, and Primary Home Language: How Well Do They Predict Specific Learning Disability Classification by Third Grade? A Pilot Study across School Poverty Levels*. American Education Research Association (AERA) Annual Conference, San Francisco, CA.
- Mwavita, M.** & Race, Kimberley (February 2013). *A District's Implementation of Cohort-Based Accountability: Tracking academic performance and non-academic factors to inform decision-making among stakeholders*. 26th Annual Management Information Systems (MIS) Conference, Washington, DC.
- Mwavita, M.**, Perry, K., & Wilkey, S. (October 2012). *How do you conduct an Evaluation in a fluid, ever changing ecology like Higher Education?* American Evaluation Association (AEA) Annual Conference, Minneapolis, MN.
- Mwavita, M.**, Kitchens, J., & Race, K. (February 2012). *The Data culture: The impact of data use on instruction by school district's stakeholders*. 25th Annual Management Information Systems Conference. San Diego, CA.
- Mwavita, M.** & Kitchens, J. (July 2011). *District's longitudinal data system: Impact on instruction and learning in classrooms*. National Center for Educational Statistics (NCES) Summer Conference, Washington DC.
- Mwavita, M.** & Mutua, K. (April 2011). *Applying indigenous epistemologies to connect and inform African education research for the public good*. American Education Research Association (AERA). New Orleans, LA.
- Mwavita, M.**, Kitchens, J., & McLaughlin, L. (July 2010). *A District's approach to using data to improve educational outcomes*. National Center for Educational Statistics (NCES) Summer Conference, Washington DC.

- Kitchens, J. & **Mwavita, M.** (March 2010). *District's approach to a teacher value added cohort based longitudinal data systems: Multiple criteria model*. 23rd Annual Management Information Systems Conference. Phoenix, AZ.
- Perry, K., **Mwavita, M.**, Lee, C. H., Mitchell, T., & Barnett, D. (November 2007). *Evaluation and Learning: Accomplishing both through the conduct of a Needs Assessment*. American Evaluation Association Annual Conference, Baltimore, MD
- Mwavita, M.**, (November, 2006). *Online programs: Challenges and implications on evaluation practice*. America Evaluation Association Annual Conference, Portland, OR.
- Sargent, E. S, & **Mwavita, M.** (May 2006). *The impact of reading strategies when used along with the newspaper in education program*. International Reading Association (IRA) 51st Annual Convention. Chicago, IL.
- Hui, R., Carlozzi, A.F., & **Mwavita, M.** (2006). *International student preferences for coping strategies, counseling approaches, and counselor characteristics*. Poster presented at the annual meeting of the American Counseling Association, Montreal, Canada.
- Mwavita, M.**, Rockley, M., & Westbrook, T. (January 2005). *Hypothesis-based learning: Results from a quasi-experimental study of science reasoning for 7th grade science students*. Hawaii International Conference on Education. Waikiki, HI.
- Puckette, J., **Mwavita, M.**, & Marston, R. (January 2005). *Hypothesis-based learning in middle school science: Measured improvement in student performance*. Hawaii International Conference on Education. Waikiki, HI.
- Mwavita, M.** (January 2005). *Teaching teachers to do science the way scientists do science through Hypothesis-based learning pedagogy*. Hawaii International Conference on Education. Waikiki, HI.
- Mwavita, M.**, (April 2004). *A reality check on the gold standard: Issues and challenges of evaluating department of education technology projects*. The American Educational Research Association (AERA) San Diego, CA.
- Ortegano-Layne, L., Wilson, L. P. Ahonen, S. P., Lowe, A. L., Boverie, E. P., **Mwavita, M.** (April, 2004). *Four case studies: Hypothesis-based Learning: Student centered, process-based science instruction*. The American Educational Research Association (AERA). San Diego, CA.
- Wilson, L. P. & **Mwavita, M.** (June 2003). *Evaluation from the outside in: Assessment of online teacher learning as a vehicle to improve the workshop*. Canadian Evaluation Society (CES). Vancouver, BC.
- Mwavita, M.** (April 2002). *How children with disabilities utilize available resources: A discrepancy analysis*. The American Educational Research Association (AERA). New Orleans, LA.
- Miller, W. J. & **Mwavita, M.** (April 2001). *Influences on adolescent concern about violence: An ecological perspective*. The American Educational Research Association (AERA). Seattle, WA.
- Kitchens, J., McLaughlin, L. **Mwavita, M.** & Steffens, J. (July 2009). *A District approach to longitudinal data systems*. National Center for Educational Statistics (NCES) Summer Conference, Washington DC.
- Kitchens, J., McLaughlin, L., & **Mwavita, M.** (July 2009). *Workshop: A district approach to longitudinal data systems*. STATS-DC 2009 NCES Data Conference. Bethesda, MD.
- Mwavita, M.** (October 2005). *Self-Regulated learning and classroom engagement in calculus achievement among freshmen engineering students*. Rocky Mountain Educational Research Association, Stillwater, OK.
- Mwavita, M.** (May 2002). *Interactions in an inquiry-based physics laboratory: A case study*. Oklahoma Teacher Education Association (OETA), Edmond, OK.
- Mwavita, M.** (2002). *Elementary education majors' perspective on the physics by inquiry environment: A qualitative inquiry*. The Rocky Mountain Education Association (RMERA), Stillwater, OK.
- Mwavita, M.** (2000). *Bivariate relationships between achievement areas: Self-concept and test anxiety*. The 11th Annual Research Symposium, Stillwater, OK.

Invited Presentations

- Little, T., Van de Schoot, Rens, **Mwavita, M.**, Grandfield, E. (May, 2020). *Doing Good Research and Being a Good Researcher. Research as We-search, not Me-search.* Stats Camp Global Town Hall Meeting. Zoom
- Mwavita, M.** (November 2014). *Panelist: High Stakes Testing Summit.* Oklahoma City, OK
- Mwavita, M.** (2014). *Oklahoma School Grades: Hiding Poor Achievement.* Board of Education Western Heights District, Oklahoma City, OK.
- Adams, C. M., Forsyth, P. B., **Mwavita, M.**, Barnes, L. B., Dollarhide, E., Miskell, R., Ware, J. Jean-Marie, G. Garland, P. Khojasteh, J. (November, 2013). *Oklahoma's A-F grading system of schools.* Tulsa Parents Legal Action Council (PLAC). Jenks, OK
- Adams, C. M., Forsyth, P. B., **Mwavita, M.**, Barnes, L. B., Dollarhide, E., Miskell, R., Ware, J. Jean-Marie, G. Garland, P. Khojasteh, J. (October, 2013). *Oklahoma's A-F grading system of schools.* Central Oklahoma Parents Legal Action Council (PLAC). Deer Creek, OK
- Kitchens, J., **Mwavita, M.** & McLaughlin, L. (April 2010). *Classroom-centric, longitudinal data system: A foundation for effective and sustainable Enterprise-Based Longitudinal Data Systems.* Committee on Education & Labor US House of Representatives, Washington, DC.
- Mwavita, M.** (November 2009). *Sharing longitudinal data with different users.* Institute of Educational Statistics Statewide Longitudinal Data Systems (IES SLDS) Grantee Conference. Arlington, VA.
- Mwavita, M.** (May 2009). *Panel discussion on principles for building high-quality state assessments systems.* Fair Test and the National Education Association conference on transforming state assessment systems. Alexandria, VA
- Kitchens, J & **Mwavita, M.** (December 2009). *Common language and longitudinal data system in addressing student mobility.* United Way Board Meeting, Oklahoma City, OK.
- Kitchens, J. & **Mwavita, M.** (November 2009). *Longitudinal data systems to improving instruction and student performance.* Rural Board of Superintendents in Creek County, OK.
- Kitchens, J., McLaughlin, L. & **Mwavita, M.** (July 2008). *Best Practices in Data-Driven decision making: Knowledge transfer session.* American Productivity and Quality Center (APQC), Houston, TX.
- Kitchens, J., McLaughlin, L. & **Mwavita, M.** (April 2008). *Common language: Eradication of poverty and inequalities.* United Nations Eighth World Info Poverty conference, NY, USA.
- Ackerson, J. B. & **Mwavita, M.** (October 2004). *How to implement hypothesis- based learning with ongoing support.* The 2004 Alaska Math and Science Conference, Fairbanks, AK.
- Mwavita, M.** (April 2005). *Turning kit based science into hypothesis- based learning (HbL) pedagogy.* The first annual HbL National Conference. Oklahoma City, OK.
- Mwavita, M.** & Ackerson, J. B. (2004). *Implementation workshop on hypothesis- based learning.* District's Professional Development Workshop, Anchorage, AK
- Mwavita, M.** (October 2003). *Hypothesis-based learning: Creating science experiments.* Jason's Curriculum Planning Committee, Needham, MA
- Rockley, G. M., Ackerson, J.B. & **Mwavita, M.** (May 2003). *Hypothesis- based learning.* United States Department of Education Meeting, Mitchellville, MD
- Mwavita, M.** (October 2003) *Hypothesis- based learning: Creating science experiments.* Jason's Curriculum Planning Committee, Needham, MA
- Mwavita, M.** (June 2003). *Hypothesis- based learning: The pedagogy that enables teachers and students to think and do science.* State Superintendent's Curriculum and Assessment Conference.

Externally Grants and Contracts

US Department of Energy (DOE)

Vora, D. H., **Mwavita, M.**, and Partner Institutions in the region. Great Plains Center of Excellence (GPCoE) at Oklahoma State University Industrial Assessment Center : US Department of Energy (DOE):Award Number: EN-23-OT-262:9/30/2032-9/30/2025. \$3,750,000.00 (funded)

National Institute of Health (NIH)

Lucas E. A, Smith B. J, Chowanadisai W, Alake S, Ice J, Zhao J, **Mwavita M.** Prebiotic Activity of Pinto Beans and Metabolic Outcomes in Estrogen Deficiency. *Funding agency:* NIH-NIA/NICCH. *amount:* \$369,467; *duration* (funded).

Preparing Older Adults: Communicating risk In Virtual Environments (PRO-ACTIVE).

ROPOSAL NUMBER: HE-21-RS-029: **Principal Investigators: Mwavita Marumba**, (PI) Institution: College of Education and Human Sciences Oklahoma State University Amount: \$ 387,548.00: Starting Date: July 1, 2022- June 30, 2026 (pending).

Muscle spindle and motor unit function with aging: Phase III. National Institute of Health (NIH). Defreitas, J. (PI) & **Mwavita, M.** (co-PI). ED-18-RS-023: 7/1/2018-6/30/2021: \$394,521.00 (not funded – collecting pilot data)

Department of Health and Human Services:

Area Health Education Centers Program: **Mwavita, M.** (PI) & Barnes, L. L. B (Co-PI). U.S. Department of Health & Human Services (DHHS). ED-17-RI-067: 9/1/17-8/31/18: \$228,316.00 (funded).

National Institute of Disability:

Field Initiated Projects Program (Development). CrossingPoints Rising Tide Model of Off-Campus Independent Living and Community Participation. National Institute of Disability, Independent Living and Rehabilitation Research. (HHS-2017-ACL-NIDILRR-IFDV-091). (Requested for October 1, 2017-September 30, 2020). Awarded for September 2018-September 30, 2021 \$600,000 Awarded, PI: K. Mutua, Co-PI: Mugoya, G. Key Personnel: Amy Williamson, **Mwarumba Mwavita** (External Evaluator)
Website: <http://crossingpoints.ua.edu/>

Mugoya, G. (Principal), Mutua, K. (Co-Principal), "The University of Alabama's Hightide Independent Living (HIL) Model: An Examination of The Efficacy and Effectiveness for Young Adults with Significant Disabilities," Administration for Community Living, Federal \$597,280.00. Currently Under Review. Proposal Number: 21-0283. **Mwarumba Mwavita** (External Evaluator).

United States Department of Agriculture (USDA):

Enhanced Undergraduate Training for the Future Food Safety and Engineering Workforce. Bellmer, D (PI) & **Mwavita, M.** (Evaluator). USDA: 7/1/2022-6/30/2025: \$381,603.00 pending.

National Science Foundation (NSF):

REU Site: Interdisciplinary Research Experience for undergraduates in Materials Science and Engineering Vaidyanathan, R. (Co-PI), & **Mwavita, M.** (Co-PI). NSF-REU. 5/18/2020-8/04/2023 \$406,746.00 (funded)

Interdisciplinary Research Experience for undergraduates interested in Materials Science and Engineering. Vaidyanathan. K. (PI), Sarin, P. (Co-PI), **Mwavita, M.** (Consultant). 2015-2018, NSF: \$405,208.00 (funded).

Research Experiences in Information Centric Engineering for Emerging Process Domains. Cecil, J (PI), **Mwavita, M.** (Co-PI). 2014-2017: NSF Grant (ED-14-RS-0180) \$360,000. (Funded).

Research and Evaluation of Technology Education Program in New Mexico. Wilson, P., (PI) **Mwavita, M.** (Co-PI), & Edelman, K. (Co-PI). NSF: \$300,000: 2003-2004: (funded)

IUSE—Student Engaged Learning Track Level 1— *Increasing Research Experiences of Undergraduate STEM Majors Through an Interdisciplinary Relevant Authentic Research Experiences (RAREs) Curriculum*, PI: Jacinta Mutambuki; Co-PI: Donald French & **Evaluator: Mwarumba Mwavita** — \$300,000, 2021-2024— **Received “good” reviews.**

IUSE—Institutional and Community Transformation Track Level 1— *Improving Retention and Performance of Diverse Undergraduate STEM Majors Through a Faculty Professional Development on Evidence-Based Inclusive Teaching Practices*, PI: Jacinta Mutambuki; Co-PI, Shane Robinson & **Evaluator: Mwarumba Mwavita**, — \$300,000, 2021-2024—**Received “very good” reviews.** Both proposals are currently under revision for resubmission in 2022.

National Aeronautics and Space Administration (NASA)

Collaborative Center for Advancing Human Exploration and Education National Aeronautics Space Administration. Quinn, B. (PI), **Mwavita, M.** (Co-PI) (NASA): 2015-2020 \$448,829.00 (funded).

Army Educational Outreach Program (AEOP)

Oklahoma State University Army Educational Outreach Program (AEOP) Strategic Education Consortium Proposal Number: ED-15-RI-738. Marks, S. (PI), **Mwavita, M.** (Co-PI). Army Educational Outreach Program (AEOP): 2015-2025, \$183,550,162.00 (not funded)

American Psychological Association Division 15

*“Responding to Student Race-Based Trauma: The Doubled-Edged Sword of Empathy.” PI Mike Yough; Co-PI: **Mwarumba Mwavita**; Co-PI: Mei-lin Chang#:* \$5,000 Routing #: HE-21-RS-039 \$5,000 1/1/2021-12/31/2022 (Funded)

State and foundations

Oklahoma Research Improving Science Education (OKRISE). Allen, B (PI) & **Mwavita, M.** (Co-PI) University of Central Oklahoma. 4/1/2020-3/31/2025: \$135,000.00

Placing the Past: Critical Geographies, GIS and Opening Doors to STEM: Del Testa, D. (PI), Mulligan, A. (co-PI), & **Mwavita, M.** (Evaluator). NSF IUSE: 2020-2023: \$600.000 (pending)

Choctaw Nation Summer School Research: Choctaw Nation. Utley, J. (PI), Gordon S. (co-Pi) & **Mwavita, M** (co-PI). Foundation Grant. 2017-2018: \$30,000. Funded.

Stutey, D. (PI), Gordon, S.R. (Co-PI & Project Evaluator), **Mwavita, M.** (Co-PI & Project Evaluator), & Klein, D. (Co-PI). (2018). Utilizing play therapy to address trauma and improve academic success of students in Kenya. Spencer Foundation. (\$50,000). (Not funded)

Innovative approaches to prepare graduate students for careers in 21st century NAE grand challenge areas. Fahlenkamp, H. (PI), Vaidyanathan, R. (Co-PI), Utley, J. Co-PI) & **Mwavita, M.** (Co-PI). NSF-IGE: 2018-2021: \$426,437.00 (pending).

Regional Technology Transfer Accelerator hubs for IDeA States. Valiaev, A. (PI), Barnes, L.L.B. (co-PI), & **Mwavita, M.** (co-PI). ED-18-RS-748. 07/01/18-6/30/2021. \$126,552.00. (Pending),

Project SWEPT (Statewide Evaluation of Pathways to Teaching). Oklahoma State Department of Education (OSDE) for US DOE. Duhon, G. (PI), Anthony, C., (Co-PI), & **Mwavita, M.** (Co-PI). 07/1/18-06/30/23: ED-18-RS-010 \$2,919,748.00 (pending).

Next Generation School Accountability, **Mwavita, M.** (PI), Barnes, L. (Co-PI) & Khojasteh, J. (Co-PI). 2015-2016: Oklahoma State Department of Education \$108,000.00 (funded).

Stillwater Public School Strategic Planning process: Meridian Technology Center: **Mwavita, M.** (PI). 10/30/2013-6/30/2014: \$4,000 (funded).

Implementation of Common Core of School Standards and Assessment for Western School District and Research. **Mwavita, M.** (PI), Parsons, S (consultant), Sanders, J. (consultant). Western Heights School District \$57,000: 2011-2013 (funded).

Evaluation of Professional Learning Communities – Ponca City School District, Ponca City, OK. **Mwavita, M.** (PI) \$1500: 2008. (Funded).

Internally Funded Research Grants

Summer 2015. Faculty Scholarship Support Program grant for professional development and conference travel. \$5,000. Funded.

Summer 2013 & 2014, Faculty Scholarship Support Program grant for summer research, College of Education, Oklahoma State University. \$14, 186.00 (funded)

OSU and Choctaw Nation: Collaborate Educate. President’s cup for creative interdisciplinary project. 2014. \$1,500

Summer Resident Researcher, Institute for Teaching and Learning Excellence (ITLE), Oklahoma State University. Two summer months’ salary for 2013, 2014, 2015: \$43,262.00 (funded).

Scholarships Office Cost of Attendance Survey. Scholarship and Financial Aid Office: 2013 -ED-14-RS-029: \$1250.

Teaching

Graduate Courses

2005 – Present Oklahoma State University, Research Evaluation Measurement and Statistics

REMS 6013: Multiple Regression,
REMS 5373: Test and Measurements,
REMS 5953: Statistical Methods I,
REMS 6373: Program Evaluation,
REMS 6663: Applied Multivariate Statistics,
REMS 5013: Research Design and Methodology,
REMS 6003: Analysis of Variance,
STAT 5013: Statistics for Experimenters I,
*EDLE 5320: Data Driven Decision Making,
*REMS 6383: Hierarchical Linear Modeling,
REMS 6850: Directed Readings,
Master’s Thesis
Doctoral Dissertation
* Developed the course

2023- Present Indiana University School of Public Health

EPI 658 : Intermediate Epidemiology

Undergraduate courses

HDFS 2510: Freshman Research Honors Scholars,
STAT 4193: Statistics

Training workshops and short courses taught to graduate students and professionals nationally and internationally

2023 *Statistics Retreat*, Whitefish, MT. (September, 2023)

2023 *Mediation and Moderation*, Albuquerque, New Mexico, Summer STATS Camp, (June, 2023)

2023 *Program Evaluation and Cost-benefit analysis* , Albuquerque, New Mexico, Summer STATS Camp (June, 2023)

- 2022 *Statistics Retreat, Whitefish, MT. (September, 2022)*
- 2022 *Language, Literacy, and Culture: Quantitative Proposal Seminar for doctoral students, Belize, Central America*
- 2022 *Program Evaluation and Cost-benefit analysis Albuquerque, New Mexico, Summer STATS Camp*
- 2022 *Mediation and Moderation, Washington, DC STATS Camp, (February, 2022).*
- 2021 *Mediation and Moderation, UCLA Virtual STATS Camp, (June, 2021).*
- 2021 *Program Evaluation and Cost-benefit analysis. Virtual Stats Camp, (June, 2021).*
- 2020 *Mediation and Moderation, UCLA Virtual STATS Camp, (October, 2020).*
- 2020 *Program Evaluation and Cost-benefit analysis. Virtual Stats Camp, (June, 2020).*
- 2020 *Mediation and Moderation. Virtual Stats Camp, (June, 2020).*
- 2020 *Econometrics module for Ph.D. students, Strathmore School Business, Virtual (April 2020).*
- 2020 *Program Evaluation and Cost-benefit analysis. Stats Camp, February, 2020, Atlanta, GA*
- 2020 *Mediation and Moderation. Consortium of Statistics and methodologists, Oklahoma State University (January, 2020).*
- 2019 *New faculty orientation session on Research. Oklahoma State University (August 2019).*
- 2019 *Longitudinal SEM and Multilevel Modeling. STATS Camp, April 2019, South Africa*
- 2019 *Program Evaluation and Cost-benefit analysis. Stats Camp, February 2019, Atlanta, GA*
- 2018 *Econometrics for Ph.D. students, Strathmore School Business 2018, Nairobi, Kenya*
- 2018 *Mediation and Moderation. STATS camp 2018, Albuquerque, New Mexico*
- 2016 *Program Evaluation and Cost-benefit analysis. STATS camp 2016, Albuquerque, New Mexico.*
- 2015 *Program Evaluation and Cost-benefit analysis. STATS camp 2015, Dallas Texas.*
- 2012 – Present *Statistics Seminars for School of Business and Economics. Moi University, Eldoret, Kenya*
- 2013 – 2014 *Statistics professional development to faculty. Institute of Teaching and Learning Excellence (ITLE), Oklahoma State University*
- 2015 *College of Education faculty statistics professional development. Oklahoma State University.*

Professional Services

Offices in National or International Professional Organizations and Other National Service

International Journal of Behavioral Development

2020 – Present Consulting Editor *Educational Psychology: An International Journal of Experimental Educational Psychology.*

Frontiers in Psychology and Frontiers in Applied Mathematics and Statistics

2020 – Present Editorial Board of Quantitative Psychology and Measurement as Review Editor for Frontiers in Psychology and Frontiers in Applied Mathematics and Statistics

NASA Office of STEM Engagement

2019 – Present Expert Review Panel Member for NASA OFFICE OF STEM ENGAGEMENT Diversity Deep Dive and Pilot Longitudinal Study.

American Education Research Association

2019 – Present Secretary/Treasurer Multilevel Modeling Special Interest Group (SIG).
2002 – Present Conference Proposal Reviewer
1999 – Present Educational Measurement, Psychometrics, and Assessment (Reviewer)
1999 – Present Structural Equation Modeling (Reviewer)
1999 – Present Research Focus on the Caribbean and Africa (Reviewer)
1999 – Present Teaching Practices, Knowledge, and Education in Math and Science (Reviewer)

American Evaluation Association

1999 – Present Teaching Evaluation Interest Group (Reviewer)
2004 Chair of concurrent session
2002 – Present Conference Proposal Reviewer
2017 American Society of Engineering Educators- Mid-West Conference Poster Presentations Judge
2014 Society for Research in Child Development Chair of concurrent session- Modeling Techniques and Approaches
2014 Discussant
2014 Reviewer
2014 Conference Proposal Reviewer

National Science Foundation/ NSF

2019 – Present EHR Core Research (ECR) Program panelist
2005 – Present Geosciences Track Grant proposal reviewer,

Rocky Mountain Education Research Association/ RMERA

2005 Chair for concurrent session-
2004 – Present Reviewer

Oklahoma Education and Teacher Association/OETA

2002 Chair for concurrent session

Ad hoc Manuscript Reviews

2004 – Present Journal of Science in Research Teaching
2015 – Present Sage open publication
2014 – Present Sex Roles: A journal of Research

Oklahoma State University

University wide

2021 – Present Regents Distinguished Research Awards (RDRA) Selection Committee
2020 – Present Academic Standards and Policy Committee member
2020 – Present Diversity Community Advisory Board
2017 – Present New faculty mentor
2017 Member of Search Committee- Director of University Assessment and Testing
2017 Member of Faculty Search Committee- Literacy faculty
2015 – 2016 Member of Search Committee- Dean of College of Education September
2002 – 2003 Search Committees for Provost and Vice-President
2003 Search Committee for Vice-President for Research
2003 – 2007 Convocation Committees

College of Education and Human Sciences

2021- present Online programs Ad hoc Committee Action Plan
2021- present Chair Graduate Students Advisory Council

2020 – Present	Vice Chair- Chair and Professorship Committee
2018 – Present	Member of College of Education, Health and Aviation Student Affairs Committee
2016	Member of Search Committee – Morsani Chair – STCL
2015 – 2017	Member of Aviation Education Faculty Search-Member, Leadership Team, College of Education
2013 – 2014	Alternate Representatives for the School of Educational Studies, College of Education Leadership Team
2005 – 2007	Faculty Associate Residential Life
2001 – 2003	Parliamentarian, Graduate and Professional Student
2000 – 2001	President, African Student Organization
1999 – 2001	Executive Committee member of International Student Organization

Research, Evaluation, Measurement and Statistics (REMS) Program

2018 – Present	Internal Reviewer for tenure and promotion dossier
2017 – Present	Assessment coordinator
2016 – Present	Student Affairs
2014 – 2015	Chair, Faculty Search -Research Evaluation Measurement and Statistics (REMS), School of Educational Studies

Community

2017- present	Community Diversity Advisory Board
2012- present	National Intercollegiate Sports Official Association (NISOA)
2009- present	United Soccer Football Federation Soccer Association Referee
2009- 2017	Stillwater Soccer Club Coach
2011 – 2016	School Board Member – Sunnybrook Christian School.

Consultations

2021- Present	Performance Evaluation of the National Aeronautics and Space Administration(NASA) Institutional Research Capacity Study STEM engagement program activities.
2021 – Present	Performance Evaluation of Workforce and Early Career Readiness Skills in NASA/STEM fields study.
2019 – 2021	National Aeronautics and Space Administration(NASA) Longitudinal and Diversity Deep Dive Studies Statistical and Evaluation consultant. Cleveland, OH.
2016 – 2018	Social Enterprise Evaluation and Capacity building. Ministry of Education and Youth, Government of Belize, Central America.
2015 – 2016	Development of quantitative index of principal evaluation, Western Heights District, Oklahoma City, OK.
2012 – 2014	Technical Assistance support to the Instructional Improvement and Data Systems (IIDS) Community of practice (COP) for Race to the Top grantees: Reform Support Network, ICF international.
2008	Expert witness Western Heights District Board of Education versus State Department of Education Case Number: CJ-2007-9884 & CJ-2006-9771
2004 – 2006	ACT and SAT tutoring for underserved, low social economic status high school children in Albuquerque, NM. City Albuquerque and State of New Mexico.
2004 – 2005	Charter for Ralph Bunch Charter School established in 2005 Albuquerque, NM. City of Albuquerque, NM.
2006 – 2007	Needs Assessment of Counseling Services in Payne County, Oklahoma–Stillwater Interfaith Counseling Center. Perry, K (PI) and Mwavita, M. (co-PI)
2002 – 2005	Educational consultant Mount Meru University, Arusha, Tanzania
2002	Statistical Analysis for Evaluation Research Institute, Oklahoma City, OK

Dissertation Committees

Public Health/Kinesiology

Ashley N. Hadwiger (Spring, 2021). (Binge eating disorder and body dysmorphic disorder: Assessing differences in body image concerns. (member- methods and analysis).

Taylor Beverley (Summer, 2020). Perceived competence of paraprofessionals in elementary school physical education. (committee member – methods).

Oyemi, A. Adeyiga (Summer, 2021). Psychological distress, well-being and academic performance: A cascade effect among black college students. (member- methods).

Mansur Choudry (Fall, 2020). The influence of religiosity on coping stress and marital relationship of parents raising a child with autism spectrum disorder in Pakistan. (committee member- methods).

Carlos Estrada (summer, 2019). Neuromuscular adaptations to resistance training elicited by transcranial direct current stimulation. (Methods specialist, outside member).

Karen Blackwood (Spring, 2017). Factors that affect nursing students' willingness to respond to disasters or public emergencies. (outside member).

Steven Zuniga (Spring 2017). The relationship of malevolent creativity, emotional intelligence, personality and intimate partner violence: Prevalence within a Midwestern University sample. (outside member)

Samuel Mason (summer, 2019). The effect of labeling bias on diagnostic decision making for developmentally delayed children. (Methods specialist, outside member).

Sultan Magruder (Spring, 2017). Burnout, empathy and self-care among mental health counselors. (Outside member).

Amanda McCabe. (Spring 2017). Relationship of parent attachment and parenting behaviors on social achievement goals endorsed by emerging adults. (outside member).

Kimberly Samuels (2015). The Relationship of Parental, Intergenerational, Peer, and Community Connections with Engagement in Risky Sexual Behaviors and Sexting among College Students. (outside member).

Latrice Loche (2015). Family and school ecological risks and academic achievement among disadvantaged females: Moderating effects of parent protective factors. (outside member).

Larissa Boyd (2015). Comparison of dual-task balance and power training among older adults. (outside member)

Amanda Dawn Kashwer (2014). Prescription drug misuse among college students: An intervention based in the theory of planned behavior. (member).

Marisa Moore (2014). Differences in age, belongingness, intimacy and perceived social support: How facebook behavior contributes to well-being. (outside member).

Fatima Wasim (2014). South Asian American daughter-in-law/mother-in-law relationships, cultural values conflict, and help seeking for domestic violence. (outside member).

Others disciplines-Education, Assessment, Social Science, Disaster, Aviation, STEM

Josephine Shikongo (Fall, 2023). Exploring the sustainability of higher education funding in the Southern Africa Region: A multiple case study on Namibia and South Africa. (member-methods).

Farouk Awudu (Summer, 2023). Authentic research-based experiences and impact in General Chemistry laboratory course.(member-methods).

- Jillian Caldwell Carpenter (Summer, 2022). The role of sociodemographic, environmental, individual, and relational processes on marital and couple relationships on firefighters: A risk and resilience model. (member)
- Mary T. Gatti (Spring, 2022). Measuring college student financial literacy. (member).
- Sierra M. Villanueva, (Fall, 2021). A dose-response analysis of a computer-based explicit timing intervention. (member-methods).
- Mostafa, Hosseinzadeh, (Fall, 2021). Evaluation of structure complexity magnitude, degree of cross-loading on secondary dimension and model specification MIRT parameter estimation. (member).
- James, A. Crowson, (Fall, 2021). U.S. Air Force supply chain managers share attitudes regarding the use of the five elements of the ADKAR model as critical success factors to implement enterprise resource planning software. (member)
- Elizabeth Banks (Summer, 2021). Evaluating the effect of secondary school seating arrangements on on-task behaviors: Analysis of student behavior and teacher movement. (member-methods)
- Kathryn Black (Summer, 2021). Evaluating factor structure and instrument stability through measurement invariance of the DECA, second edition (member).
- Danielle Campbell (Spring, 2021). Evaluating the Effectiveness of a Tier 1 Teacher Training Program Designed to Address Tier 3 Behavioral Challenges in Kindergarten Classrooms: The Teacher-Child Interaction Training - Comprehensive Program ((committee member – methods).
- Stephanie Smith Kellen (Fall, 2020). Brief functional analysis and intervention based assessment: Are both effective in determining behavioral interventions for students? (committee member- methods).
- Ashley Keener (Spring, 2020). A comparative analysis of Cohne’s Kappa and Gwet’s AC1 with a mass shooting classification index: A study of rater uncertainty. (Chair)
- Janna Sanders (Spring, 2020). Intervention on early numeracy skills for curriculum intervention and advanced math skills. (committee member – methods).
- Loren Nelson (Summer, 2020). Comparing the Effects of Group Administered Drill Interventions on Pre-kindergarten Early Literacy Skills. (committee member – methods).
- Kortney Rist (Summer, 2020). The use of noncontingent reinforcement delivered by peers for the reduction of problem behavior and the application of Weber’s Law of fading procedure. (committee member- methods).
- Shannon Guss (Fall 2019) Developing a measure: Data use context and experiences scales. (committee member).
- Steven Powell (Fall, 2019). A comparative analysis of math facts fluency gains made through massed and distributed practice with varied intersession intervals. (Methods specialist, outside member).
- Sohee, Kim (Spring 2019). A comparison of multidimensional linking methods with mixed format test. (member).
- Jana Sanders (Spring, 2019). Intervening of early numeracy for curriculum application and advanced math skill acquisition. (Methods Specialist, outside member).
- Kelva Hunger. (Spring 2019). Program evaluator burnout: Investigating the psychometric properties of the modified Maslach Burnout Inventory for program evaluators and characteristics of affecting burnout among program evaluators. (member).
- Justin Bullard (Summer, 2019). Evaluating explicit timing modifications to maximize student-learning rates: A comparison of distributed practice and goal setting with performance feedback. (Methods specialist, outside member).
- Wei-Kang Kao (Spring, 2019). Effects of smartphone pop-up advertisements on attitude and recall in consumers’ choice: Applied structural equation models. (member).

Pete Large (Spring 2019). A meta-analysis of geospatial estimates in the case of Malaysian airlines flight MH370. (Methods specialist, outside member)

Marc, Tower (Spring 2019). Travel mode selection when autonomous transportation attributes are included as criteria. (Methods Specialist, outside member)

Lisa, Seay (Spring 2019). A quantitative analysis of the role of salary in the decision of pre-service Oklahoma teachers to leave the state. (Methods specialist, outside member)

Luke Weinbrecht (Fall 2017). Relationship between reformed science teaching and learning beliefs and classroom practice: A two-part study. (Outside member).

Tiffany Hornsby (Summer, 2017). Examining the Influence of Pre-K Attendance, First-Grade Literacy Instructional Practices and Instructional Time on Literacy Growth and Children's Special Education Status. (outside member)

Kevin Milan (Spring 2017). The 2013 floods in Boulder county Colorado: An analysis of governmental and faith-based organizations' post-disaster planning for housing recovery. (outside member)

John, P. Thiago. (Fall 2016). Patterns of firefighters injuries and line of duty deaths in the military firefighters corps of the Federal district of Brazil. (outside member).

Karen Blackwood. (Spring 2016). Personal earthquake preparedness among nursing students: Identifying factors that affect preparedness. (outside member).

Alicia Sullivan (2015). Examining growth in English reading for Spanish speaking ELL students, according to the extent of English and Spanish language instructional support. (outside member).

Kelly D'Arcy (2014). Structural dimensions of student involvement and their relationship with student development. (member).

Celina Ann Mendoza (2014). Variations in online survey designs. (member).

Douglas Sean McDaniel (2014). Teacher perceptions of collective faculty trust in charter schools and traditional public schools. (outside member).

Catherine Mary Roring (2013). Contribution of race, primary language, family structure and pre-kindergarten attendance to the odds of being classified as having a specific learning disability by third grade. (member).

Jack Trout III (2013). Management and employee perceptions of fuel conservation programs within a U.S. supplemental air carrier. (member).

DeeDee Bennett (2013). Community development block grant disbursements after disasters: Assessing social vulnerability. (member).

Brian Ess (2013). Computer-mediated communication modality and psychological well-being. (outside member).

Claudia Otto (2013). The effects of a color-embedded writing strategy on the written expression skills of students with mild-moderate disabilities. (member).

Tanya Alvarez-Nunez (2012). Teacher self-efficacy: A link to student achievement in English language and mathematics in Belizean primary schools. (Adviser).

Ahmed Al Sakini (2012). Oxidate stability of fermented lamb meat sausage with added natural antioxidants. (outside member).

Carol Babb (2012). Instructional leadership in Belizean elementary schools. (outside member).

Kent Leo Arzu (2012). High school dropouts in Belize: A grid and group explanation. (adviser).

Maxine McKay (2012). Factors influencing Belize district primary school teachers' attitudes toward inclusive education. (outside member).

- Carmen Lopez (2012). The effects of teacher certification and experience on student achievement on primary school examination in Belizean primary schools. (member).
- Karen Charlette Martinez (2011). Factors affecting student persistence at a selected community college in the Stann Creek district, Belize, Central America. (outside member).
- Candy Armstrong (2011). Belizean primary school teachers' understanding of assessment, assessment practices, and use of student assessment data. (outside member).
- Dian Vasquez (2011). Organizational climate and student achievement in Belizean secondary schools. (outside member).
- Desmond Okpogba (2011). Organizational structure, collegial trust, and college faculty teaching efficacy: A case study. (outside member).
- Jeremy Cayetano (2011). Instructional leadership and student achievement in Belizean secondary schools. (member).
- Steven Waldvogel (2010). Examining the effectiveness of a multi-sensory instructional reading program in one rural Midwestern school district. (outside member).
- Kathy J. Carroll (2010). Consequences of stress for public school superintendents. (adviser)

Master of Science Thesis Committees

Public health

- Heather Chancellor (2014). Volunteer attitudes toward homelessness: A test of contact hypothesis. (member).
- Andrew Rizzo (2013). Predicting risky sex from gender, self-efficacy and attachment. (member)
- Jennifer Mcatee (2012). Self-esteem, alcohol consumption, and risky sexual behavior in college fraternity males. (member).

Biostatistics

- Binu Sharma (summer, 2019), How to analyze secondary data manual. (Chair)
- Chanda Rooney (summer, 2019). Multilevel modeling of behavioral observations of head start students: Accounting for initial conditions. (Methods specialist member)

Honors and Awards

- 2022- College of Education and Human Science Global Education Faculty Excellence.
- 2015 – President's Multidisciplinary Award for Educational, intergenerational project with the Choctaw nation in southwest Oklahoma
- 2014 – Friend of Education Award, Oklahoma Education
- 2001 – Outstanding Graduate Research Associate, School of Educational Studies, Oklahoma State University.