

CURRICULUM VITAE

Irene Mary Duranczyk

IDENTIFYING INFORMATION

Academic Rank: Associate Professor in College of Education and Human Development
Graduate Faculty Appointment: Multicultural Teaching and Learning; Curriculum and Instruction, Mathematics Education.

Education

Degree	Institution	Date Degree Granted
EdD.	Grambling State University, Grambling, LA College of Education Developmental Education: Higher Education Administration and Management, Cognate: Mathematics Education Dissertation: Voices of Underprepared University Students Advisor: William G. White	2002
M.Ed	Wayne State University, Detroit, MI College of Education, Educational Leadership	1990
B.A.	Oakland University, Rochester, MI College of Liberal Arts, Major: Chemistry	1971

LICENSES

Preliminary teaching certification in Chemistry and General Science (grades 5-12) State of Michigan
1971
 Certified Intercultural Development Inventory® (IDI®) administrator, 2019

EMPLOYMENT**Positions/Employment**

University of Minnesota, Campus Twin Cities 2002 – present year)	
Associate Professor	2009- present
Assistant Professor	2002 - 2009
Eastern Michigan University, Ypsilanti, MI	1991-2002
Program Administrator - Developmental Mathematics	
Jordan College, Cedar Springs, MI and Detroit, MI	1985-1991
Coordinator of Science and Technology Department/Instructor	
Founder of the Detroit Campus	
Detroit Campus Director/Dean	
Wayne State University, Detroit, MI	1979-1980

Staff Development Intern - Implementing Title 9 and Desegregation of K-12

Midwest Careers Institute, Detroit, MI President	1979-1985
North End Concerned Citizens Community Council, Detroit, MI Educational Program Director	1973-1978
Friends School in Detroit, Detroit, MI Middle School and High School Science Teacher	1972-1973

Current Membership in Professional Organizations

European Society for Research in Mathematics Education (CERME)
International Group for the Psychology of Mathematics Education (PME)
Mathematical Association of America (MAA)
American Mathematical Association of Two-Year Colleges (AMATYC)
Research in Undergraduate Mathematics Education Special Interest Group, MAA
Research in Mathematics Mathematics for Two-Year Colleges Academic Network, AMATYC
MinnAMATYC
North Central Section of MAA

HONORS AND AWARDS FOR RESEARCH/CREATIVE WORK, TEACHING, PUBLIC ENGAGEMENT, AND SERVICE

University of Minnesota

Bolashaq Scholar, 2022-2024
Collaborative Online International Learning Cohort Member, 2018.
Open Textbook Research Fellow, grant from the William and Flora Hewlett Foundation, 2015-2016
Multicultural Recognition Faculty Award, CEHD, 2013
Multicultural Teaching and Learning Fellow, sponsored by the Center for Teaching and Learning, 2010
Transform Trek Fellow, 2010-2015, 2021

External Sources

National Association for Developmental Education (NADE) Outstanding Research Conducted by a Developmental Education Practitioner, 2007

Visiting Professorships or Visiting Scholar Positions

Visiting Lecturer, affiliate graduate faculty Department of Educational Leadership, College of Education, Grambling State University Grambling, LA August 2006 – 2010
Graduate advising and teaching in the program.

RESEARCH, SCHOLARSHIP, AND CREATIVE WORK

Grants and Contracts

External Sources

Received at the University of Minnesota:

Principal Investigator
National Science Foundation
Supplemental Funds
Collaborative Research: Algebra Instruction at Community Colleges: Validating Measures of Quality Instruction 2024-2025
Award Request: \$100,370.00

Principal Investigator
National Science Foundation
Collaborative Research: Algebra Instruction at Community Colleges: Validating Measures of Quality Instruction 2020 - 2023
Award Amount: \$501,852.00

Co-Principal Investigator
National Science Foundation
Principal Investigator: Laura Watkins
Algebra Instruction at Community Colleges: An Exploration of its Relationship with Student Success 2016 - 2020
Award Amount: \$2,370,836.00

Grants submitted but not funded

Co-Principal Investigator
National Science Foundation
Principal Investigator: Laura Watkins
Collaborative Research: AI@CC: Improving Student Engagement via EQIPM-based Professional Development (ISEE-PD), 2020 - 2024
Award Requested: \$640,806.00

Principal Investigator
Institute for Educational Sciences
Student Success in Mathematics: An Exploratory Investigation of Students, Instructors, and Content at Community Colleges 2012 - 2017
Award requested: \$1.6M

Principal Investigator
Institute for Educational Sciences
Student Success in Mathematics: An Exploratory Investigation of Students, Instructors, and Content at Community Colleges 2011 - 2016
Award requested: \$1.6M

Received at another institution:

Co-Principal Investigator
National Science Foundation

Principal Investigator: Joanne Caniglia
Preparing Elementary Mathematics Teachers for Success: Implementing a Research-Based
Mathematics Curricula 1999 - 2002
Award Amount: \$97,355.00

Principal Investigator
Michigan Department of Education Eisenhower Higher Education Grant
MATH IN THE CITY: A Teacher Preparation Model Introducing Michigan Benchmarks to
Pre-Service Elementary Teachers 2001
Award Amount: \$74,631

Co-Principal Investigator
Michigan Department of Education Eisenhower Higher Education Grant
Principal Investigator: Joanne Caniglia
MATH IN THE CITY: A Professional Development Model Linking Teachers with the
Michigan Curriculum Framework 2000
Award Amount: \$38,825

Principal Investigator
Michigan Department of Education – Emerging Technology Consortium Grant
Emerging Technology Consortium Grant 2000 (written for the Michigan Developmental
Education Consortium) A grant to support a statewide conference for developmental
educators
Award Amount: \$9,650

Principal Investigator
Michigan Department of Education Eisenhower Higher Education Grant
Southeast Educators' Alliance of Mathematics Linking Emerging Student Scholars (Project
SEAMLESS II): A Model for Mentoring across the Continuum of Teacher Development
2000
Award Amount: \$82,000

Co-Principal Investigator
National Science Foundation
Principal Investigator: Joanne Caniglia
Preparing Elementary Mathematics Teachers for Success: Implementing a Research-Based
Mathematics Curricula 1999 - 2002
Award Amount: \$97,355.00

Co-Principal Investigator
Michigan Department of Education Eisenhower Higher Education Grant
Principal Investigator: Joanne Caniglia
Southeast Educators' Alliance of Mathematics Linking Emerging Student Scholars (Project
SEAMLESS I) 1999
Award Amount: \$84,000

University Sources

Partnership for Affordable Content grant (\$1500.00) eLearning Support Initiative UMN
University Libraries, 2015
International Travel Grant, 2011 (\$1500)

College of Education and Human Development (CEHD), Office of Research and Policy
Summer Research Grant, 2007 (\$4852.00) Determining the institutional factors and
student characteristics that correlate with student success in mathematics and the retention
and graduation of undergraduate students in CEHD
CEHD Women's Philanthropic Leadership Circle Grant, Office of Research and Policy
Summer Research Grant, 2007 (\$2,000.00)
CEHD Women's Philanthropic Leadership Circle Grant 2005 (\$1,500.00) Awarded to
continue work with undergraduate and graduate students who are also interested in
understanding then reducing or eliminating the gender gap in mathematics and science
University of Minnesota Service-Learning Fellowship 2004 (\$5000.00) To design service
learning beginning and intermediate algebra courses for implementation in fall, 2005
College of Education and Human Development (CEHD) 2003 Office of Research and Policy
Summer Research Grant. (\$7,180) Office of the Executive Vice President and Provost Lee
and Duranczyk "Harmonizing: Our Writing and Mathematics Voices"

Publications

Books or Monographs

Lundell, D. B., Higbee, J. L., & Duranczyk, I. M. (Eds.) (2007). Diversity and the postsecondary
experience. Minneapolis: University of Minnesota, General College, Center for Research on
Developmental Education and Urban Literacy.
<https://conservancy.umn.edu/bitstream/handle/11299/5358/1/mono7.pdf>

Lundell, D. B., Higbee, J. L., & Duranczyk, I. M. (Eds.) (2006). Student standpoints about
access programs in higher education. Minneapolis: University of Minnesota, General College,
Center for Research on Developmental Education and Urban Literacy.
<https://conservancy.umn.edu/bitstream/handle/11299/5361/mono6.pdf?sequence=1&isAllowed=y>

Duranczyk, I. M., Higbee, J. L., & Lundell, D. B. (Eds.) (2004). Best practices for access and
retention in higher education. Minneapolis: University of Minnesota, General College, Center
for Research on Developmental Education and Urban Literacy.
<https://files.eric.ed.gov/fulltext/ED491508.pdf>

Higbee, J.L., Lundell, D.B., & Duranczyk, I.M. (Eds.). (2003). Multiculturalism in
developmental education. Minneapolis: University of Minnesota, General College, Center for
Research on Developmental Education and Urban Literacy.
<https://conservancy.umn.edu/handle/11299/5364>

Duranczyk, I. M. & White, W. G. (Eds.). (2003). Developmental education: Pathways to
excellence. Findlay, OH: National Association for Developmental Education.
<https://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.644.1515&rep=rep1&type=pdf>

Higbee, J. L., Lundell, D. B., & Duranczyk, I. M. (Eds.). (2002). Developmental education:
Policy and practice. Auburn, CA: National Association for Developmental Education.
<http://www.psyking.net/HTMLobj-3570/Monograph'02.pdf>

Refereed Journal Articles

- Lamm, R., Mesa, V., Kohli, N., Duranczyk, I., Watkins, L., & Ström, A. (2022). Construct Validation of an Instrument That Assesses Quality of Instruction in Community College Algebra. *Community College Journal of Research and Practice*, 1-14.
- Duranczyk, I. & Pishcherskaia E. (submitted September, 2022, rewrite for resubmission). Virtual Bridge Building: A case study for and by faculty engaging in International Learning. *Education Sciences*
- Inah Ko, I., Mesa, V., Duranczyk, I., Herbst, P., Kohli, N., Ström, A., & Watkins, L. (2021) Understanding the characteristics of mathematical knowledge for teaching algebra in high schools and community colleges, *International Journal of Mathematical Education in Science and Technology*, DOI: 10.1080/0020739X.2021.2006348
- Lim, D., Kimani, P., Duranczyk, I. M., Watkins, L., Gerami, S., Breit-Goodwin, M., & Cawley, A. (2020). Connecting Across Representations in Community College Algebra: Lessons From the Classroom. *MathAmatyc Educator*, 12, 12-20.
- Mesa, V., Cawley, A., Duranczyk, I., Watkins, L., & Ström, A. (2020). Characterizing classroom interactions to assess the quality of algebra instruction at community colleges. *MathAmatyc Educator*, 11, 48-55.
- Peralta, Y., Kohli, N., Ström, A., Duranczyk, I., Mesa, V., & Watkins, L. (2019). A psychometric analysis of the Algebra and Precalculus Concept Readiness assessment. *Journal of Psychoeducational Assessment*, 1-16. doi:10.1177/0734282919846019
- Pishcherskaia, E. N. & Duranczyk, I. M. (2018). Bridging countries and cultures through global academic cooperation. *Scientific Journal of Baikal State University*, 2, 176-184.
- Duranczyk, I., & Pishcherskaia, E. (2018). Bridging countries and cultures through accessible global collaborations. *Education Sciences*, 8(4), 1-11.
- Duranczyk, I. M., Franko, J., Osifuye, S., Barton, A., & Higbee, J. L. (2015). Creating A Model For Graduate Student Inclusion And Success. *Contemporary Issues in Education Research (CIER)*, 8(3), 147–158. <https://doi.org/10.19030/cier.v8i3.9346>
- Duranczyk, I., Myers, K., Couillard, E., Schoen, S., Higbee, J. (2013). Enacting the Spirit of the United Nations Convention on the Rights of Persons with Disabilities: The Role of Postsecondary Faculty in Ensuring Access. *Journal of Diversity Management*, 8(20), 63-72.
- Sitomer, A., Ström, A., Mesa, V., Duranczyk, I., Nabb, K., Smith, J., & Yannotta, M. (2012). Moving from anecdote to evidence: A proposed research agenda in community college mathematics education. *MathAMATYC Educator*, 4(1), 34-39.
- Duranczyk, I. M. & Higbee, J. L. (2012) Constructs of Integrated Multicultural Instructional Design (IMID) for the Mathematics Classroom. *Journal of Mathematics and Culture*, 6(1),148-177.
- Duranczyk, I. M., Madyun, N., Jehangir, R. R., & Higbee, J. L. (2011). Toward a mentoring model for promotion and tenure: Progress and pitfalls. *Journal of Diversity Management*, 6(2), 21-30.

- Fayon, A. K., Goff, E., & Duranczyk, I. M. (2010) Impacting the attitudes of ELL students in an Introductory Science Course through integrated learning communities. *The Learning Assistance Review*, 15(2), 7-19.
- Duranczyk, I. M. (2009). Technology resources: Mathematics accessibility for all not accommodation for some. *MathAMATYC Educator*, 1(1), 18-22.
- Duranczyk, I. M. (2008). Characteristics of successful developmental mathematics education programs and students Part III. *The AMATYC Review*, 30(1), 48-56.
- Duranczyk, I. M. (2008). Characteristics of successful developmental mathematics education programs and students Part II. *The AMATYC Review*, 29(2), 22-40.
- Higbee, J. L., Duranczyk, I. M., & Ghere, D. L. (2008). Multicultural awareness project for institutional transformation: Making the case for Universal Instructional Design. In F. Ferrier & M. Heagney (Eds.), *Higher education in diverse communities. Global perspectives, local initiatives* (pp. 60-65). European Access Network and Higher Education Authority, Ireland
- Duranczyk, I. M. & Fayon, A. K. (2008). Successful undergraduate mathematics through universal instructional design of essential course components, pedagogy, and assessment. In J. L. Higbee & E. Goff (Eds.), *Pedagogy and student services for institutional transformation: Implementing Universal Design in higher education* (pp. 137-163). Minneapolis: University of Minnesota, College of Education and Human Development.
- Ghere, D. L., Kampsen, A. Duranczyk, I. M. & Christensen, L. (2007) Adopting and integrating multiculturalism: A closing assessment of General College. In D. B. Lundell, J. L. Higbee, & I. M. Duranczyk, *Diversity and the postsecondary experience* (pp. 25-36). Minneapolis: University of Minnesota, General College, Center for Research on Developmental Education and Urban Literacy.
- Duranczyk, I. M. (2007). Characteristics of successful developmental mathematics education programs and students Part I. *The AMATYC Review*, 29(1), 2-12.
- Duranczyk, I. M. & Lee, A. (2007). Process pedagogy in a first-year learning community. *Academic Exchange Quarterly*, 11(2), 31-35.
- Fayon, A. K., Duranczyk, I. M., & Whitney, D. L. (2007). Doing time: Incorporating apatite fission-track analysis in undergraduate science curriculum. *Journal of Geoscience Education*, 55(3), 222-227.
- Duranczyk, I. M. (2007). Students' memories and experiences: A critical analysis of developmental education. *Research and Teaching in Developmental Education*, 23(2), 23-37.
- Duranczyk, I. M. (2007). Evaluation theory for developmental mathematics practitioners. *NADE Digest*, 3(1) 1-10.
- Staats, S., Duranczyk, I., Moore, R., Hatch, J., Jensen, M. & Somdahl, C. (2006). Communication for inquiry and access: Teaching techniques from discourse research. *The Science Education Review*, 5(3), 71-80.

- Duranczyk, I. M., & Higbee, J. L. (2006). Developmental mathematics in 4-year institutions: Denying access. *Journal of Developmental Education*, 30(1), 22-31.
- Jensen, M, Duranczyk, I., Staats, S., Moore, R., Hatch, J., & Somdahl, C. (2006). Using a reciprocal teaching strategy to create multiple-choice exam questions. *The American Biology Teacher*, 68(6), 67-71. http://www.nabt.org/sub/pdf/068_06_0012.pdf
- Duranczyk, I. M., Goff, E., & Opitz, D. L. (2006). Students' experiences in learning centers: Socioeconomic factors, grades, and perceptions of the math center. *Journal of College Reading and Learning*, 36(2), 39-49.
- Duranczyk, I. M., & Opitz, D. L. (2005). Reaching for the standards, embracing diversity: Students' perceptions of the mathematics program. In J. L. Higbee, D. B. Lundell, & D. Arendale (Eds.), *The General College vision: Integrating intellectual growth, multicultural perspectives, and student development* (pp. 479 - 517). Minneapolis: University of Minnesota, General College, Center for Research on Developmental Education and Urban Literacy.
- Duranczyk, I. M., Leopard, B., Caniglia, J. & Richards, E. (2005). Math in the city: Connecting mathematics and culture. (a monograph chapter that was invited, peer reviewed, and available from the International Study Group on Ethnomathematics Web site [http://www.rpi.edu/~eglash/isgem.dir/NASGEM/ncsm04/Duranczyk, Irene Math in City.pdf](http://www.rpi.edu/~eglash/isgem.dir/NASGEM/ncsm04/Duranczyk,Irene%20Math%20in%20City.pdf))
- Duranczyk, I. M., Staats, S., Moore, R., Hatch, J., Jensen, M., & Somdahl, C. (2004) Developmental mathematics explored through a sociocultural lens. In I. M. Duranczyk, J. L. Higbee, & D. B. Lundell (Eds.), *Best practices for access and retention in higher education* (pp. 43-53). Minneapolis: University of Minnesota, General College, Center for Research on Developmental Education and Urban Literacy.
- Duranczyk, I. M., Leopard, B., Richards, E., & Caniglia, J. (2003). Rising stars. In T. Armington (Ed.), *Best practices in developmental education*, Vol. 2 (pp. 41-43). Findlay, OH: National Association for Developmental Education.
- Moore, R., Jensen, M., Hatch, J., Duranczyk, I., Staats, S., & Koch, L. (2003). Showing up: The importance of class attendance for academic success in introductory science courses. *The American Biology Teacher*, 65(5) 325-329.
- Warner, J. F., Duranczyk, I. M., & Richards, E. (2000). Developmental math students meet success in a cooperative program emphasizing concepts. In J. L. Higbee & P. L. Dwinell (Eds.), *The many faces of developmental education* (pp. 73-84). Warrensburg, MO: National Association for Developmental Education.
- Caniglia J. & Duranczyk, I. M. (1999). Understanding math backwards. In J. L. Higbee & P. L. Dwinell (Eds.), *The expanding role of developmental education* (pp. 43-55). Morrow, GA: National Association for Developmental Education.
- Duranczyk I. M. & Caniglia, J. (1998). Student beliefs, learning theories, and developmental mathematics: New challenges in preparing successful college students. In J. L. Higbee & P. L. Dwinell (Eds.), *Developmental education: Preparing successful college students* (pp. 123-138). Columbia: University of South Carolina, National Resource Center for the First-Year Experience & Students in Transition.

Duranczyk, I. M. (1998). Unanticipated outcomes of developmental math education – A qualitative study. In D. C. Mollise & C. T. Matthews (Eds.), NADE selected conference papers, Vol. 3 (pp. 19-21). Carol Stream, IL: National Association for Developmental Education.

Caddell, E. H., Duranczyk, I., & Ajiri, S. (1975). Innovative project activities in science from the NSTA study of innovative project activities: Renaissance educational consortium ensuring individualized progress in technology and science (RECEIPTS). *The Science Teacher*, 42(6), 41.

Caddell, E. H., Duranczyk, I., & Ajiri, S. (1975). Innovative project activities in science from the NSTA study of innovative project activities: Renaissance educational consortium ensuring individualized progress in technology and science (RECEIPTS). *The Science Teacher*, 42(5), 49-50.

Non-refereed Journal Articles, Essays, or Book Chapters (use any standard format that the candidate's field uses)

Mesa, V., Duranczyk, I., Bardelli, E., & AI@CC Research Group. (2018). An exploratory factor analysis of EQIPM, a video coding protocol to assess the quality of community college algebra instruction. Ann Arbor MI.

AI@CC* Research Group. (2017). Evaluating the Quality of Instruction in Postsecondary Mathematics. Instrument for video coding. Glendale Community College, Scottsdale Community College, University of Michigan, University of Minnesota. Phoenix, AZ; Scottsdale, AZ; Ann Arbor, MI; Minneapolis, MN. *AI@CC is Watkins, L, Duranczyk, I, Mesa, V. Strom, A, Kohli, N,

Duranczyk, I.M., Loch, S., & Stottlemyer, J. (Eds) (2013) Collaborative statistics using spreadsheets. Houston, TX: Rice University, Connexions (<http://cnx.org/content/col11521/latest/>)

Duranczyk, I., Sitomer, A., Yannotta, M., Mesa, V. & Ström, A. (2012) Advancing a research agenda in community college mathematics education. Proceedings of the XV Conference on Research in Undergraduate Mathematics Education working groups.

Platt, M., & Duranczyk, I. M. (2008). Student's Solutions Manual for Intermediate Algebra by Richelle M. Blair. Boston: Pearson Addison-Wesley.

Platt, M., & Duranczyk, I. M. (2008). Instructor's Solutions Manual for Intermediate Algebra by Richelle M. Blair. Boston: Pearson Addison-Wesley.

Duranczyk, I. M. (2005). Widening the Twin Cities mathematics and science education pipeline. In D. B. Lundell, J. L. Higbee, & S. Hipp (Eds.), Proceedings of the Twin Cities Metropolitan Higher Education Consortium's Developmental Education Initiative (pp. 75-81). Minneapolis: University of Minnesota, General College, Center for Research on Developmental Education and Urban Literacy.

- Duranczyk, I. M. (2004) Ethnomathematics reference list (an annotated bibliography) Available from the International Study Group on Ethnomathematics Web site, http://www.rpi.edu/%7Eeglash/isgem.dir/texts.dir/er_Duranczyk.htm
- Siaka, K., Higbee, J. L., Miksch, K. L., Lundell, D. B., Jiang, F., Bruch, P. L., Jehangir, R., Goff, E., & Duranczyk, I. M. (Eds.) (2004). Bibliography of resources for multicultural higher education. Minneapolis: University of Minnesota, General College, Center for Research on Developmental Education and Urban Literacy.
- Caniglia, J., Duranczyk, I. M., Leopard, B., & Richards, E. (2003). Story living and mathematics: The underground railroad. Materials developed under a grant awarded by the Michigan Department of Education, Detroit Historical Museum
- Caniglia, J., Duranczyk, I. M., Leopard, B., & Richards, E. (2003). Story living and mathematics: Music and culture. Materials developed under a grant awarded by the Michigan Department of Education, Detroit Historical Museum
- Caniglia, J., Duranczyk, I. M., Leopard, B., & Richards, E. (2003). Story living and mathematics: The great fire of 1805. Materials developed under a grant awarded by the Michigan Department of Education, Detroit Historical Museum

Proceedings of Conferences [refereed]

- Mesa, V., Ko, I., Boeck, C., Duranczyk, I., Akoto, B., Lim, D., Kimani, P., Watkins, L., Ström, A., & Beisiegel, M. (2023). A blueprint for measuring mathematical knowledge for teaching college algebra at community colleges. In P. Drijvers, C. Csapodi, H. Palmér, K. Gosztonyi, & E. Kónya (Eds.), Proceedings of the Thirteenth Congress of the European Society for Research in Mathematics Education (CERME13) (pp. 3843-3850). Alfréd Rényi Institute of Mathematics and ERME.
- Duranczyk, I., Mesa, V., Ko, I., and VMQI Team. (2023, July) Mathematical Knowledge For Teaching for College Algebra at Community Colleges. 2023. In M. Ayalon, B. Koichu, R. Leikin, L. Rubel & M. Tabach (Eds.). Proceedings of the 46th Conference of the International Group for the Psychology of Mathematics Education (Vol. 2, pp. 251-258). PME 46.
- Akoto, B., Lim, D., Duranczyk, I., & AI@CC 2.0 VMQI. Utilizing Cognitive interviews to improve items that measure mathematical knowledge for teaching community college algebra. In C. Fernández, S. Llinares, A. Gutiérrez, & N. Planas (Eds.) (2022). Proceedings of the 45 th Conference of the International Group for the Psychology of Mathematics Education (Vol. 4). Alicante, Spain: PME. (p. 167)
- Patrick Kimani, Laura Watkins, April Ström, Irene Duranczyk, Vilma Mesa, et al.. Engaging community colleges faculty in developing items for assessing mathematical knowledge for teaching. Twelfth Congress of the European Society for Research in Mathematics Education (CERME12), Feb 2022, Bozen-Bolzano, Italy. <hal-03748736>
- Watkins, L., Duranczyk, I., Mesa, V. & Ström, A. (2020). Investigating mathematical knowledge for teaching and quality of instruction in US community colleges. Paper accepted for presentation at the 14th International Congress on Mathematical Education, Shanghai, China. Conference postponed until July, 2021, due to COVID-19.

- Kimani, P., Watkins, L., Lamm, R., Duranczyk, I., Mesa, V., & Strom, A. (2019). Exploring relationships between hours of professional development, mathematics knowledge for teaching, and instructor's ability to make sense of procedures. Graven, M., Venkat, H., Essien, A. & Vale, P. (Eds). (2019) Proceedings of the 43rd Conference of the International Group for the Psychology of Mathematics Education (Vol 2). (pp. 464 – 471) Pretoria, South Africa: PME.
- Cawley, A., Strom, A., Mesa, V., Watkins, L., Duranczyk, I., & Kimani, P. (2019). Investigating mathematical errors and imprecisions in content and language in the teaching of algebra. Graven, M., Venkat, H., Essien, A. & Vale, P. (Eds). (2019) Proceedings of the 43rd Conference of the International Group for the Psychology of Mathematics Education (Vol 2). (pp. 137 – 144) Pretoria, South Africa: PME.
- Mesa, V., Duranczyk, I, Watkins, L., & the AI@CC Research group. (2019). The structure of EQIPM, a video coding protocol to assess the quality of community college algebra instruction. In U.T. Jankvist, M. Van den Heuvel-Panhuizen, & M. Veldhuis (Eds.). Proceeding of the Eleventh Congress of the European Society for Research in Mathematics Education (No. 33). Freudenthal Group; Freudenthal Institute: ERME.
- Mali, A., Cawley, A., Duranczyk, I, Mesa, V., Ström, A., & Watkins, L. (2019). Identifying sense-making in algebra instruction at U.S. post-secondary colleges. In U.T. Jankvist, M. Van den Heuvel-Panhuizen, & M. Veldhuis (Eds.). Proceeding of the Eleventh Congress of the European Society for Research in Mathematics Education (No. 31). Freudenthal Group; Freudenthal Institute: ERME.
- Cawley, A., Duranczyk, I., Mali, A., Mesa, V, Ström, A., Watkins, L., Kimani, P., & Lim, D. (2018). An innovative qualitative video analysis instrument to assess the quality of post-secondary algebra instruction. In E. Bergqvist, M. Österholm, C. Granberg, & L. Sumpter. (Eds.). Proceedings of the 42nd Conference of the International Group for the Psychology of Mathematics Education. Umea, Sweden: PME.
- Wladis, C., Smith, J., & Duranczyk, I. (2017). Research on Non-university Tertiary Mathematics. In Proceedings of the 13th International Congress on Mathematical Education (pp. 693-694). Springer, Cham.
- Duranczyk, I. M., Strom, A., Mesa, V., Watkins, L., & Kohi, N. (2017). Measuring gains in algebra knowledge at community college: Assessing the efficacy of the Algebra Pre-Calculus Readiness test. In Proceedings of the Tenth Congress of the European Society for Research in Mathematics Education (CERME10, February 1–5, 2017). Retrieved from https://keynote.conference-services.net/resources/444/5118/pdf/CERME10_0060.pdf
- Duranczyk, I. M. (2015). Integrated Multicultural Instructional Design for Student Success. In conference proceedings, A man and His Values in the Modern World 6th International Scientific-Practical Conference. Transbaikal State University.
- Duranczyk, I. M. (2013). Open access maths textbook: Students' Perspective. In B. Ubuz, C. Haser, & M. A. Mariotti (Eds). Proceedings of the Eighth Congress of the European Society for Research in Mathematics Education (pp. 2488-2489). Retrieved from http://www.mathematik.uni-dortmund.de/~erme/doc/CERME8/CERME8_2013_Proceedings.pdf

Duranczyk, I. M., & Higbee, J. L. (2012). Designing distance education for access and equity: Structure and content. Proceedings of the 28th Annual Conference on Distance Teaching and Learning, Madison, WI
http://www.uwex.edu/disted/conference/Resource_library/proceedings

Duranczyk, I. M. (2011). Critical Multicultural Instruction for Undergraduate Mathematical Thinking Courses. In M. Pytlak, T. Rowland, & E. Swoboda (Eds.). Proceedings of the Seventh Congress of the European Society for Research in Mathematics Education (pp.2972-2973). Retrieved from: <http://www.erne.unito.it/doc/cerme7/CERME7.pdf>

Higbee, J. L., Duranczyk, I. M., & Buturian, L. (2011). Implementing Integrated Multicultural Instructional Design in Blended Courses. Proceedings of the 27th Annual Conference on Distance Teaching and Learning, Madison, WI
http://www.uwex.edu/disted/conference/Resource_library/proceedings/46163_2011.pdf

Presentations, Posters, and Exhibits

INTERNATIONAL:

Mesa, V., Ko, I., Duranczyk, I., Kimani, P., Watkins, L., Lim, D., Beisiegel, M., Ström, A., & Akoto, B. (2024, July). Mathematical knowledge for teaching college algebra at community colleges [Conference session]. 47th Conference of the International Group for the Psychology of Mathematics Education, Auckland, New Zealand.

Watkins, L., Kimani, P., Duranczyk, I., Akoto, B., Mesa, V., Lim, D., AI@CC 2.0 VMQI Research Group. (2024, July). Investigating the relationship between faculty beliefs and cooperative learning in U.S. community colleges [Conference session]. The 15th International Congress on Mathematical Education, Sydney, Australia.

Mesa, V., Ko, I., Boeck, C., Duranczyk, I., Akoto, B., Lim, D., Kimani, P., Watkins, L., Ström, A., & Beisiegel, M. (2023). A blueprint for measuring mathematical knowledge for teaching college algebra at community colleges. 13th Congress of the European Society for Research in Mathematics Education, Budapest, Hungary.

Duranczyk, I., Mesa, V., Ko, I., and VMQI Team. (2023, July) Mathematical Knowledge For Teaching for College Algebra at Community Colleges. 46th Conference of the International Group for the Psychology of Mathematics Education, Haifa, Israel.

Duranczyk, I. M. 48th AMATYC Annual Conference, "Connecting with Math Research Across the Globe: Topics and Methods," American Mathematical Association of Two Year Colleges, Toronto, Canada. (November 2022).

Lim, D., Lang, N., Akoto, B., & Duranczyk, I. M. 48th AMATYC Annual Conference, "Lessons learned from Cognitive Interviews for Teaching College Algebra," American Mathematical Association of Two Year Colleges, Toronto, Canada. (November 2022).

Duranczyk, I. M. (Panelist), 48th AMATYC Annual Conference, "Panel Discussion Global Perspectives: Shared Space for Professional Innovation," American Mathematical Association of Two Year Colleges, Toronto, Canada. (November 2022).

- Akoto, B., Lim, D., & Duranczyk, I.M., Utilizing cognitive interviews to improve items that measure mathematical knowledge for teaching community college algebra. Paper presented at the 43rd Conference of the International Group for the Psychology of Mathematics Education. Alcanté , Spain
- Mesa, V., Duranczyk, I, Watkins, L., & the AI@CC Research group. (February, 2019). The structure of EQIPM, a video coding protocol to assess the quality of community college algebra instruction. Paper presented at the Eleventh Congress of the European Society for Research in Mathematics Education. Utrecht, the Netherlands: Freudenthal Group & Freudenthal Institute, Utrecht University.
- Mali, A., Cawley, A., Duranczyk, I, Mesa, V., Ström, A., & Watkins, L. (February, 2019). Identifying sense-making in algebra instruction at U.S. post-secondary colleges. Paper presented at the Eleventh Congress of the European Society for Research in Mathematics Education. Utrecht, the Netherlands: Freudenthal Group & Freudenthal Institute, Utrecht University.
- Cawley, A., Duranczyk, I., Mali, A., Mesa, V, Ström, A., Watkins, L., Kimani, P., & Lim, D. (2018). An innovative qualitative video analysis instrument to assess the quality of post-secondary algebra instruction. Paper presented at the 42nd Conference of the International Group for the Psychology of Mathematics Education. Umea, Sweden: PME.
- Duranczyk, I. M. (2017, February). Measuring gains in algebra knowledge at community colleges: Assessing the efficacy of the Algebra Pre-Calculus Readiness test. Paper and Poster presented at the Tenth Congress of the European Society for Research in Mathematics Education (CERME). Dublin, Ireland.
- Duranczyk, I. M. (2013, February) Open access textbook: The students' perspective in an undergraduate mathematical thinking statistics course with service learning. Paper and Poster presented at the Eighth Congress of the European Society for Research in Mathematics Education (CERME). Antalya, Turkey.
- Duranczyk, I. M. (2011, February) Critical Multicultural Instruction for Undergraduate Mathematical Thinking Courses. Paper and Poster presented at the Seventh Congress of the European Society for Research in Mathematics Education (CERME). Rzeszow, Poland.
- Duranczyk, I. M. (2010, July), Integrated Multicultural Instructional Design (IMID) for undergraduate mathematical thinking courses. Paper (Duranczyk & Higbee) and poster presented at the International Conference on Ethnomathematics (ICEM), Towson, MD.
- Higbee, J. L. Duranczyk, I. M. & Ghore, D. (2007, June). Multicultural awareness project for institutional transformation: Making the case for Universal Instructional Design. Paper presented at the 16th Annual Meeting of the European Access Network (EAN), Galway, Ireland.
- NATIONAL:**
- Mesa, V., Duranczyk, I., Wingert, K., & AI@CC 2.0 VMQI Research Group. (2024, February). Measuring mathematical knowledge for teaching college algebra at community colleges [Conference session]. 2024 Conference on Research in Undergraduate Mathematics Education, Omaha, NE.

- Boeck, C., Mesa, V., Kimani, P., Duranczyk, I., Beisiegel, M., Akoto, B., Wynn, J., & AI@CC 2.0 VMQI Research Group. (2024, February). Conceptualizing equity in mathematics education research: 2000-2022 [Conference session]. 2024 Conference on Research in Undergraduate Mathematics Education, Omaha, NE.
- Akoto, B., Lim, D., Duranczyk, I., & VMQI Team. (2023, February 23-25). Utilizing cognitive interviews to improve items that measure mathematical knowledge for teaching community college algebra [Conference session]. 2023 Conference on Research in Undergraduate Mathematics Education, Omaha, NE.
- Duranczyk, I. M. (2022, June 19). "Creating an Instrument to Measure Instructors' Mathematical Knowledge for Teaching College Algebra at the Community Colleges," Women in Mathematics Research Symposium, Association for Women in Mathematics, Minneapolis, Minnesota, United States.
- Akoto, B., Lim, D., Duranczyk, I., & VMQI. (2022, February 24-26). Utilizing Cognitive Interviews to Improve Items for an Instrument to Measure Mathematical Knowledge for Teaching College Algebra at Community Colleges [Poster presentation]. 2022 Conference on Research in Undergraduate Mathematics Education, Boston, MA.
- Lim, D., Akoto, B., Duranczyk, I., & VMQI. (2022, February 24-26). Algebra instruction at community colleges: Validating measures of quality instruction [Poster presentation]. 2022 Conference on Research in Undergraduate Mathematics Education, Boston, MA.
- Watkins, L., Strom, A., & Duranczyk, I., (2021, April 20). Algebra Instruction at Community Colleges. Invited Presidential Session, MAA Webinar Research on Mathematics Instruction at Community Colleges.
- Duranczyk, I. M. (2021, October). A statistical COIL embracing global perspectives. Presentation at the American Mathematical Association of Two-Year Colleges. Phoenix, AZ.
- Mesa, V., Beisiegel, M., Duranczyk, I., Kimani, P., & the VMQI AI@CC 2.0 Team (2021, October). Presentation at the American Mathematical Association of Two-Year Colleges. Phoenix, AZ.
- Duranczyk, I., Kimani, P., Mesa, V. Watkins, L., Beisiegel, M., Strom, A., (Nov.-Dec., 2020). Algebra Instruction at Community Colleges: Validating Measures of Quality Instruction (Collaborative) Poster presented at the EHR Core Research (ECR) Virtual Poster Hall.
- Lim, D., Duranczyk, I., & Akoto, B. (2020). The interaction between instructor and students in community college algebra classrooms. Poster presented at the 23rd Annual Conference on Research on Undergraduate Mathematics Education, Boston, MA.
- Mesa, V., Lamm, R., Watkins, L., Duranczyk, I., Ström, A., & Kohli, N. (2020). A confirmatory factor analysis of EQIPM, a video coding protocol to assess the quality of community college algebra instruction. Paper presented at the 23rd Annual Conference on Research on Undergraduate Mathematics Education, Boston, MA.
- Watkins, L., Duranczyk, I., Mesa, V., Strom, A. & Kohli, N. (2020, January). Algebra instruction at community colleges: An exploration of its relationship with student success. Poster presented at the Joint Math Meetings, Denver, CO.

- Kimani, P., Watkins, L., Lim, D., & Duranczyk, I. (2019, November). Mathematical knowledge for teaching supports mathematical flexibility. Presentation at the American Mathematical Association of Two-Year Colleges. Milwaukee, MN.
- Mesa, V., Duranczyk, I., Bardelli, E., & AI@CC Research Group (February, 2019). An exploratory factor analysis of EQIPM, a video coding protocol to assess the quality of community college algebra instruction. Paper presented at the XXII Annual Conference on Research in Undergraduate Mathematics Education (RUME). Oklahoma City, OK.
- Watkins, L., Duranczyk, I., Mesa, V., Strom, A., & Kohli, N. (January, 2019) Algebra instruction at community colleges: An exploration of its relationship with student success. Poster presentation at the Joint Mathematics Meetings, Baltimore, MD
- Lim, D. Cawley, A., Duranczyk, I., Strom, A., Mesa, V., Watkins, L., & Kohli, N. (February, 2018). The development of a video coding instrument for assessing instructional quality in community colleges. Poster presentation at the XXI Annual Conference on Research in Undergraduate Mathematics Education (RUME). San Diego, CA.
- Mesa, V., Strom, A., Duranczyk, I., & the AI@CC Research Group (February, 2018). The emergence of a video coding protocol to assess the quality of community college algebra instruction. Paper presentation at the XXI Annual Conference on Research in Undergraduate Mathematics Educations (RUME). San Diego, CA.
- Watkins, L., Duranczyk, I., Mesa, V., Strom, A., & Kohli, N. (January, 2018) Algebra instruction at community colleges (AI@CC). Paper presentation at the Joint Mathematics Meetings, San Diego, CA.
- Watkins, L., Kimani, P., Strom, A. Duranczyk, I. M., & Lim, D. (November, 2017) Prime time for coding: Using a research tool to reflect on teaching. Paper presented at the 43rd Annual Conference of the American Mathematical Association of Two-Year Colleges (AMATYC), San Diego, CA.
- Burns, H., Duranczyk, I. M., Watkins, L., & Wladis, C. (April, 2017) A Fresh Look at Community College Mathematics Instruction Paper presented at the 59th Annual Conference of The Council for the Study of Community Colleges. Fort Worth, TX.
- Mesa, V., Duranczyk, I. M., Kohli, N., Strom, A. Watkins, L. & Mali, A. (February, 2017). Towards a Measure of the Quality of Instruction @ Community Colleges: Focusing on Mathematical Procedures. Poster presented at the The SIGMAA on RUME Conference on Research in Undergraduate Mathematics Education
- Duranczyk, I. M. (November 2015). An Open Textbook Experience. Paper presented at the 41st Annual Conference of the American Mathematical Association of Two-Year Colleges (AMATYC), New Orleans, LA.
- Duranczyk, I. M., Osifuye, S., Barton, A., Higbee, J. L. Presentation, College Reading & Learning Association 47th Annual Conference, "Student-Centered Mentoring for Graduate Students: Navigating Academia and Beyond", College Reading & Learning Association, St. Paul, Minnesota, United States. (November 2014).

- Schoen, S. & Duranczyk, I. M. (August, 2014) Online Learning with Equity Pedagogy. Paper and Poster Presented at the 30th Annual Conference on Distance Teaching and Learning, Madison, WI
- Mesa, V. (Co-Chair), Strom, A. (Co-Chair), Duranczyk, I. M. (Co-Chair) Working Group, Conference on Research in Undergraduate Mathematics Education "Working Group on Community College Mathematics Research", Mathematical Association of America, Denver, Colorado, United States. (February 2014).
- Zientek, L. R., Duranczyk, I. M., Schoen, S., & Mesa, V. (2013, October) Community college research: Gathering evidence from a collection of dissertations. Paper presented at the 39th Annual Conference of the American Mathematical Association of Two-Year Colleges (AMATYC), Anaheim, CA.
- Duranczyk, I. M. (2013, November) Undergraduate mathematics research from across the pond. Paper presented at the 39th Annual Conference of the American Mathematical Association of Two-Year Colleges (AMATYC), Anaheim, CA.
- Duranczyk, I. M. & Higbee, J. L. (2013, February) Designing distance education for access and equity: Structure and content. Paper presented at the Pennsylvania State System of Higher Education Virtual Conference, Transforming the teaching and learning environment.
- Duranczyk, I. M. (2012, November). Classroom-Based Research Appetizers. Paper presented at the 38th Annual Conference of the American Mathematical Association of Two-Year Colleges (AMATYC), Jacksonville, FL.
- Duranczyk, I. M., & Higbee, J. L. (2012, August). Designing distance education for access and equity: Structure and content. Paper presented at the 28th Annual Conference on Distance Teaching and Learning, Madison, WI
- Duranczyk, I. M. (2011, November). Multicultural Classroom Research within Mathematical Thinking Courses. Paper presented at the 37th Annual Conference of the American Mathematical Association of Two-Year Colleges (AMATYC), Austin, TX.
- Higbee, J. L., Duranczyk, I. M., & Buturian, L. (2011, August). Implementing Integrated Multicultural Instructional Design in Blended Courses. Paper presented at the 27th Annual Conference on Distance Teaching and Learning, Madison, WI
- Higbee, J.L., Madyun, N., Duranczyk, I.M, Jehangir, R. (2010, November). Evaluation of a Mentoring Model for Promotion and Tenure. Paper presented at the Keeping Our Faculty of Color Conference, Minneapolis, MN.
- Duranczyk, I. M. & Taylor, J. (2010, November). Building a Structurally Sound Research Bridge for Mathematics Equity. Paper presented at the 36st Annual Conference of the American Mathematical Association of Two-Year Colleges (AMATYC), Boston, MA.
- Lee, A., Williams, R., & Duranczyk I. M. (2010, February). Excellence for all: Integrating student learning and development. Presentation at the 29th Annual Conference on the First-Year Experience (FYE), Denver, CO.

- Duranczyk, I. M. (2006, April). Ethnomathematics algebra activities: Applying socio-cultural learning for engaging learners in discovering their innate mathematical power. Workshop presentation at the 38th Annual Conference of the National Council of Supervisors of Mathematics (NCSM), St. Louis, MO.
- Higbee, J. L., Arendale, A., Murie, R., Ghere, D., & Duranczyk, I. M. (2006, February). Developmental education: Intellectual growth, multicultural perspectives, and student development. Panel presented at the 30th Annual Conference of the National Association for Developmental Education (NADE), Philadelphia, PA.
- Duranczyk, I. M. (2005, November). Assessing students' perceptions: Avoid an undertow beyond crossroads. Paper presented at the 31st Annual Conference of the American Mathematical Association of Two-Year Colleges (AMATYC), San Diego, CA.
- Duranczyk, I. M. (2005, November). Trimming the sail: Maximizing mathematical and writing potential. Invited, pre-conference institute speaker at the 38th Annual Conference of the College Reading & Learning Association (CRLA), Long Beach, CA.
- Higbee, J. L., Duranczyk, I. M., & Goff, E. (2005, October). Ensuring a future of inclusion: Implementing Universal Design in learning centers. Panel presented at the 20th Annual National College Learning Center Association (NCLCA) Conference, Milwaukee, WI.
- Duranczyk, I. M. (2005, April). Ethnomathematics pedagogy: Using context, voice, and action to develop mathematical concepts and skills. Paper presented at the 37th Annual Conference of NCSM, Anaheim, CA.
- Walker, S. Richards, E. J. & Duranczyk, I. M. (2005, March). Research opportunities with elementary education majors. Poster presentation at the 29th Annual Conference of NADE, Albuquerque, NM.
- Duranczyk, I. M. & Lee, A. (2005, March). Harmonizing our writing/math voices. Paper presented at the 29th Annual Conference of NADE, Albuquerque, NM.
- Lundell, D. B., Higbee, J. L., Arendale, D., Duranczyk, I. M., & Chung, C. (2005, March). Creating access and defining college readiness for underserved students. Panel presented at the 29th Annual Conference of NADE, Albuquerque, NM.
- Higbee, J. L. & Duranczyk I. M. (2004, September). Writing and reviewing for The Learning Assistance Review. Workshop presentation at the 19th Annual Conference of NCLCA, Towson, MD.
- Duranczyk, I. M., Leopard, B., Caniglia, B. & Richards, E. J. (2004, April). Exploring mathematical concepts within cultural contexts and historic sites. Paper presented at the 36th Annual Conference of NCSM, Philadelphia, PA.
- Higbee, J. L., Lundell, D. B., Ghere, D., Duranczyk, I. M., & Kalivoda, K. (2004, March). Integrating multiculturalism in developmental education. Panel presented at the 28th Annual Conference of NADE, St. Louis, MO.

- Wanstreet, K., Ahlering, J., Bakal, J., Duranczyk, I. M., Higgs, M. A., & Hodge, B. (2004, March). What works in developmental mathematics? Panel discussion presented at the 28th Annual Conference of NADE, St. Louis, MO.
- Stephens, D. & Duranczyk, I. M. (2004, March). Don't try this: What doesn't work in developmental mathematics. Paper presented at the 28th Annual Conference of NADE, St. Louis, MO.
- Duranczyk, I.M., & White, W. (2003, February). Harmonizing with developmental editors and reviewers: Writing for publication. Workshop presentation at the 27th Annual Conference of NADE, Austin, TX.
- Caniglia, J., Duranczyk, I.M., Leopard, B., & Richards E. J. (2003, January). Projects Supported by the NSF Division of Undergraduate Education. MAA Poster Session at the Joint Mathematics Meeting. Baltimore, MD.
- Duranczyk, I.M., Leopard, B., Richards, E. J., & Caniglia, J. (2003, January). Math in the city: Teacher professional development through Black historic sites. Paper presented at the Joint Mathematics Meeting. Baltimore, MD.
- Chung, C., Duranczyk, I.M., Higbee, J. L. & Lundell, D. B. (2002, November). Theoretical foundations: Fostering connections to research and practice. Panel presented at the 35th Annual Conference of CRLA, Minneapolis, MN.
- Duranczyk, I. M. & Richards E. J. (2002, March). Preparing elementary mathematics teachers for success: Implementing a research-based mathematics curriculum. Presentation at the Meeting of Principal Investigators and Other Senior Personnel. NSF DUE Projects in Mathematics, Arlington, VA.
- Higbee, J. L., Lundell, D. B., & Duranczyk, I. M. (2002, March). Writing for publication in developmental education: Mastering APA style. Panel presented at the 26th Annual Conference of NADE, Orlando, FL.
- Richards, E. J., & Duranczyk, I. M. (2002, March). Rising stars: Teaching emerging scholars in a Freshman Interest Group (FIG). Paper presented at the 26th Annual Conference of NADE, Orlando, FL.
- Duranczyk, I. M., & Richards, E. J. (2001, October). The impact of Uri Treisman's Emerging Scholars Workshop Model when adapted for a developmental mathematics program. Paper presented at the 3rd National Conference of Research in Developmental Education, Charlotte, NC.
- Duranczyk, I. M. (2001, October). Voices of underprepared university students: Outcomes of developmental mathematics education. Paper presented at the 3rd National Conference of Research in Developmental Education, Charlotte, NC.
- Higbee, J. L., Lundell, D. B., Duranczyk, I. M., & BanerjeeStevens, D. (2001, February). Writing for publication in developmental education: Mastering APA style, Panel presented at the 25th Annual Conference of NADE, Louisville, KS.

- McClory, S., Higgs, M. S., Duranczyk, I. M., & Stockton, B. (2001, February). The present/future of mathematics remediation at colleges/universities. Panel presented at the 25th Annual Conference of NADE. Louisville, KS.
- Richards, E. J. & Duranczyk, I. M. (2000, October). Teaching technology in the developmental math classroom. Paper presented at the Kansas City Regional Mathematics Technology Exposition, Kansas City, MO.
- Jur, B., Duranczyk, I. M., & Litchman, F. (2000, March). The developmental mathematics home: Where should it be? Panel presented at the 24th Annual Conference of NADE, Biloxi, MS.
- Caniglia, J., & Duranczyk, I. M. (1998, January). Student beliefs, learning theories, and developmental mathematics. Paper presented at the Joint Mathematics Conference, Baltimore, MD.
- Duranczyk, I. M. (1997, March). Unanticipated outcomes of developmental mathematics education – A qualitative study. Paper presented at the 21st Annual Conference of NADE. Denver, CO.
- DeZure, D., & Duranczyk, I. M. (1993, November). A department-based model for instructional development: Using cases about teaching in the disciplines. Panel presented at the 13th Annual Lilly Conference of College Teaching, Miami University, Oxford, OH.

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- Lim, D., Duranczyk, I., Akoto, B., & AI@CC 2.0 VMQI Research Group. (2024, March). Measuring mathematical knowledge for teaching community college algebra [Poster presentation]. 2024 University of Minnesota College of Education and Human Resources Research Day, Minneapolis, MN.
- Akoto, B., Lim, D., Duranczyk, I., & AI@CC 2.0 VMQI Research Group. (2023, March 23). Utilizing cognitive interviews to improve items that measure mathematical knowledge for teaching community college algebra [Poster presentation]. 2023 University of Minnesota College of Education and Human Development Research Day, Minneapolis, MN.
- Akoto, B., Lang, N., Duranczyk, I. M., & Lim, D. (2022, April 30) "What we know so far about MKT-CCA," American Mathematical Association of Two Year Colleges, Duluth, Minnesota, United States.
- Akoto, B., Lim, D., Duranczyk, I., & VMQI. (2022, March 24). Utilizing Cognitive Interviews to Improve Items for an Instrument to Measure Mathematical Knowledge for Teaching College Algebra at Community Colleges [Poster presentation]. 2022 College of Education and Human Resources Research Day, Minneapolis, MN.
- Lim, D., Akoto, B., Duranczyk, I., & VMQI. (2022, March 24). Algebra instruction at community colleges: Validating measures of quality instruction [Poster presentation]. 2022 College of Education and Human Resources Research Day, Minneapolis, MN.
- Akoto, B., Lim, B., & Duranczyk, I. (2021, October 16) Capturing Mathematical Knowledge for Teaching Community College Algebra. Paper presented at the North Central Section of the Mathematical Association of America Virtual Conference.

- Lim, D., Akoto, B., Lang, N., Kimani, P., & Duranczyk, I. (2021, May). Investigating Procedural Flexibility in Algebra Instruction. Paper presented at the Minnesota Mathematical Association of Two-Year Colleges and Minnesota Council of Teachers of Mathematics (MinnMATYC/MCTM) Spring Virtual Math Conference.
- Lang, N., Breit-Goodwin, M., Lim, D., Akoto, B., & Duranczyk, I. M. (2020, January 7). Professional development day: Algebra Instruction at Community Colleges-Minnesota. North Hennepin Community College, Brooklyn Park, MN.
- Lim, D., Breit-Goodwin, M., Duranczyk, I., & Lang, N. (2019). Exploring mathematical knowledge for teaching. Paper presented at the Minnesota Mathematical Association of Two-Year Colleges and Minnesota Council of Teachers of Mathematics (MinnMATYC/MCTM) Spring Math Conference. Duluth, MN.
- Lim, D. & Duranczyk, I. (2018, May). Evaluating Qualities of Instruction for Postsecondary Mathematics: Development, EQIPM Codes, Data, and Future. Paper presented at the Minnesota Mathematical Association of Two-Year Colleges and Minnesota Council of Teachers of Mathematics (MinnMATYC/MCTM) Spring Math Conference. Duluth, MN.
- Jang, Sean & Duranczyk, I. M. (2015, May). Undergraduate Research Opportunity Projects (UROP) emerge from an introductory statistics course. Presentation at the Minnesota Mathematical Association of Two-Year Colleges and Minnesota Council of Teachers of Mathematics (MinnMATYC/MCTM) Spring Math Conference. Duluth, MN.
- Duranczyk, I. M. (2014, May). Engagement in statistics through service learning. Presentation at the Minnesota Mathematical Association of Two-Year Colleges and Minnesota Council of Teachers of Mathematics (MinnMATYC/MCTM) Spring Math Conference. Duluth, MN.
- Schoen, S., & Duranczyk, I. M. (2013, May). Socio-cultural developmental mathematics for online or hybrid, secondary and postsecondary levels. Presentation at the Minnesota Mathematical Association of Two-Year Colleges and Minnesota Council of Teachers of Mathematics (MinnMATYC/MCTM) Spring Math Conference. Duluth, MN.
- Duranczyk, I. M. (2013, March) Open access textbook: The students' perspective in an undergraduate mathematical thinking statistics course with service learning. Paper and Poster presented at the CE+HD Research Day. Minneapolis, MN.
- Duranczyk, I. M. (2012, May). Engaging in a faculty development program designed around classroom-based research. Presentation at the Minnesota Mathematical Association of Two-Year Colleges and Minnesota Council of Teachers of Mathematics (MinnMATYC/MCTM) Spring Math Conference. Duluth, MN.
- Fayon, A. & Duranczyk, I. M. (2010, November). Postsecondary science education in a multicultural context: Addressing the science achievement gap. Presentation at the Minority Education Partnership (MMEP) Frontiers in racial equity conference. Minneapolis, MN.
- Duranczyk, I. M. (2010, May). Facilitating undergraduate mathematics education research goals among and between college campuses. Presentation at the Minnesota Mathematical Association of Two-Year Colleges and Minnesota Council of Teachers of Mathematics (MinnMATYC/MCTM) Spring Math Conference. Duluth, MN.

- Higbee, J. L., Duranczyk, I. M., & Lundell, D. B. (2006, September). Including every student: Implementing Universal Instructional Design in developmental education. Panel presented at the Minnesota Chapter of the National Association for Developmental Education Annual Conference, September 28-29, 2006, Grand Rapids, MN.
- Mrachek, L. & Duranczyk, I. M. (2005, April). Math cartoons: It's no laughing matter. Presentation at the Minnesota Mathematical Association of Two-Year Colleges and Minnesota Council of Teachers of Mathematics (MinnMATYC/MCTM) Spring Math Conference. Duluth, MN.
- Duranczyk, I. M. (2005, April). Surveying undergraduates: Do students' perceive the impact of AMATYC's teaching and learning standards? Paper presented at the MinnMATYC/MCTM Spring Math Conference, Duluth, MN.
- Duranczyk, I. M., Wyberg, T., Lee, L., & Chu, R., (2005, January). Building bridges K-16 in mathematics for access and college success. Paper presented at the Metropolitan Higher Education Consortium Conference, St. Paul, MN.
- Mrachek, L. & Duranczyk, I. M. (2004, April). Math in the movies and other applications. Presentation at the Minnesota Spring Math Conference, Duluth, MN.
- Duranczyk, I. M. (2004, April). Exploring ethnomathematics and sociocultural pedagogy in developmental mathematics courses. Paper presented at the MinnMATYC/MCTM Spring Math Conference, Duluth, MN.
- Duranczyk, I.M. (2003, September). Incorporating diversity into developmental mathematics: How ethnomathematics research can inform developmental mathematics research and practice. Paper presented at the Minnesota Chapter of the National Association for Developmental Education Annual Conference, Grand Rapids, MN.
- Duranczyk, I. M. (2000, February). Developing learning communities and emerging scholars program with under-prepared college students. Paper presented at the Michigan Developmental Education Consortium (MDEC) Conference Annual Conference, Frankenmuth, MI.

Invited Presentations at Professional Meetings, Conferences, etc. (use any standard format that the candidate's field uses)

- Duranczyk, I. M. (2015). Integrated Multicultural Instructional Design for Student Success. In conference proceedings, A man and His Values in the Modern World 6th International Scientific-Practical Conference. Transbaikal State University.
- Duranczyk, I. M. (2012, November). *Universal Design: Distance Education Design for Access and Equity*. Workshop for the University of Minnesota, College of Education and Human Development's Trek's ongoing workshops. Minneapolis, MN.
- Duranczyk, I. M. (2008, April) *Implementing Universal Instructional Design (UID) in math and science teaching and learning centers (AKA Learning disorders and helping students cope)*. Keynote Address and Workshop for the Midstates Consortium for Math and Science Faculty Development Workshop. Colorado Springs, CO.

Duranczyk, I. M. (2007, October) *Implementing Universal Instructional Design (UID) in teaching practices*. Keynote Address and Workshop facilitator for Thomas College Faculty Development Session, Waterville, ME.

Duranczyk, I. M. (2006, October) *From theory to practice*. Keynote Address for the 1st Academic Foundations Program Conference addressing administrators, faculty, and staff, Grand Rapids, MI.

Duranczyk, I. M. (2005, August). *Making math instruction culturally meaningful*. Invited guest speaker for the Community College of Baltimore County Symposium, Engaging Learners Transforming Lives, Baltimore, MD.

Duranczyk, I. M. (2005, February) *Ethnomathematics: An inclusive pedagogy and authentic assessment*. Paper Workshop presentation at the Minnesota's Future Teachers Conference, Metro State University, St. Paul, MN.

Duranczyk, I. M. (2004, May). *Dare to dream: Freeing the spirit and the mind*. Workshop presentation at Robert Moses Day, Jackson, MS.

Duranczyk, I. M. (2003, May). *Empowerment through ethnomathematics: The "Radical Equations" way to explore properties of numbers*. Workshop presentation at Robert Moses Day, Jackson, MS.

Duranczyk, I. M. (2001, April). *Seeing the humor in mathematics education: The joys and the challenges of teaching mathematics*. Keynote speaker at the Department of Mathematics Student Recognition Program, Eastern Michigan University. Ypsilanti, MI.

TEACHING AND CURRICULUM DEVELOPMENT

University of Minnesota

Graduate

Curriculum and Instruction Core: Teaching Theory and Research, Curriculum and Instruction, College of Education and Human Development, University of Minnesota. 2023

Introductory Statistical Methods, Educational Psychology, College of Education and Human Development, University of Minnesota. 2019.

Multicultural Teaching and Learning in Diverse Contexts, Postsecondary Teaching and Learning Associate Professor, College of Education and Human Development, University of Minnesota. 2013-2016. (online and face to face formats designed and delivered through Moodle and Canvas)

Increasing Access and Success in Undergraduate Classrooms, Postsecondary Teaching and Learning Associate Professor, College of Education and Human Development, University of Minnesota. 2012-2016. (Online delivery)

Undergraduate

Globalizing Your Undergraduate Curriculum, Freshman Seminar, College of Education and Human Development, University of Minnesota, 2019-present.

Introductory Statistical Methods, Educational Psychology, College of Education and Human Development, University of Minnesota. 2019.

Introductory Statistics: A basic statistical course exploring key concepts while engaging students in statistical work through the design, implementation, and analysis of a study of their choice based on their unique survey tool. This course is now a service learning course where students conduct a statistical survey for an agency working on Justice and Equity services and issues. (hybrid delivery though the use of Moodle/Canvas and an OER text and interactive materials) 2009 -2016

First Year Inquiry Course: A multidisciplinary course for first year students that integrates academic learning and student development. Mathematical thinking and critical thinking skill are integrated into humanities and social sciences texts around the theme, "How can one person make a difference?" 2008-2011

Beginning algebra through college algebra, logic for enhancing mathematical thinking, and math topics for business majors 2002 – 2008.

GeoLogic: A learning community integrating introductory geology content, study skills, and introductory logic for first year college students, fall 2007.

Inquiry-based teaching: Beginning and intermediate algebra, finite mathematics for social science and business majors, 2002 – 2006.

House about writing and mathematics: A process approach to college writing, beginning algebra and service learning with Habitat for Humanity, fall 2005.

Harmonizing our mathematics and writing voices: A learning community integrating a process approach to beginning algebra and first year college writing, fall 2004.

Grambling State University

Research in Developmental Education, guest lecturer, Department of Educational Leadership, Grambling State University, 2006 – 2009

Doctoral Committee member for Mary Corey, Grambling State University 2007 – 2011.

Eastern Michigan University

Beginning algebra and Intermediate algebra 1991-2002

Mathematics in the CITY: a pre-service mathematics content course exploring cultural sites in Detroit, MI and Windsor, Ontario followed by designing elementary and middle school mathematics materials based on Michigan mathematical standards, 2001 – 2002.

Emerging Scholars Program: taught in a four semester, two-year learning community of pre-service elementary and middle school teachers, teaching developmental mathematics through mathematics teaching methods, 1999 – 2002.

Jordan College

Beginning algebra through college algebra, and math topics for business majors 1989-1991

Faculty Development Activities regarding teaching

Inclusive STEM Teaching Project facilitator Training (2023)

Inclusive STEM Teaching Project (2022)

Aligning Actions at Crossroads: An intersectional approach to addressing harassment in the mathematical sciences. Association for Women in Mathematics. (2022)

Member of the Pedagogical Innovations Journal Club, University of Minnesota, (2021)

Participant in the I-pad Faculty Learning Committee, University of Minnesota, 2010 -2011

Participant in the Transform Trek, University of Minnesota, Summer 2010

Participant in the Mid-Career Faculty Women's Community, Center for Teaching and Learning, University of Minnesota, 2009-2010.

Working member of the Washington Center Evergreen Learning Community National Summer Institute, Olympia, WA., June 2005

Fellow, Service-Learning. University of Minnesota, 2004 – 2005

Participant in the University of Minnesota, Next Generation of the Professoriate Program 2003 – 2004

Participant in the University of Minnesota, Early Careers Teaching Program, 2003 – 2004

Fellow, EMU Instructional Technology, 2000 – 2001

ADVISING AND MENTORING

University of Minnesota

Undergraduate Student Activities

Undergraduate research projects (UROPS, directed research, lab participation, etc.)

Hyeon Jang 2014-2015

Kate Raach 2005-2008

Graduate Student Activities

Master's Theses Directed

Bethany Waldron, White Racial Identity Development as Racial Justice: Empowering White Female Students Pursuing Careers in Higher Education, 2022

Chee Kue Lee 2016 - 2021

Jessica Hron, *The Self and the Academy: An Exploratory Study of One Novice's Identities and Pedagogy*, 2016

Jennifer Drewyor, *Thesis: Mystery, Mastery, and Meaning-Making in Postsecondary Education by Adoptees and Former Foster Youth*, 2016

Sara Schoen, *Supporting Online Learning with Equity Pedagogy and the 7 Principles of Good Practice for Undergraduate School Teaching*, 2014

Evetta Inman, *Student Ambassador and Intern Guide: University YMCA*, 2014

Master's Student Advisees

Janette Giles, *Memory Work in Community: A non-academic guide to collective memory work*, 2022

Jun (Peter) Li, 2015, Program Chair, David Weerts, *Increasing Enrollment Rates of Minority Students in Minnesota*

Jillian Ryks, 2016, Program Chair, Karen Miksch, *Service Learning for Social Justice: Insights from Literature and Reflection on Practice*

Molly Faber, 2016, Program Chair, Bob Poch, *Engaging and Retaining Undergraduate Women Studying STEM at the University of Minnesota*

Wuyi Zhang, 2015, Program Chair, Michael Stebleton, *Revised Course Design of Online Chinese Language Class for Better Peer Cross-cultural Communication*

Ethan Brown

Shade Osifuye, 2014, Program Chair, Jeanne Higbee, *The Perspectives of Students with Physical Disabilities in Kenya: Integration of an Inclusive Classroom Experience in Institutions of Higher Learning*

Anise McDowell, 2014, Program Chair, Jeanne Higbee, *Building Leadership: A Practical Application of the Social Change Model of Leadership in a Multicultural Context*

Doctoral Students Advised (Academic advising for all or part of graduate student's program)

Dexter Lim

Bismark Akoto

Doctoral Committees Served on

Dexter Lim

Grambling State University

Doctoral Committees Served on

Mary Corey, Grambling State University 2007 – 2012. Doctoral Committee member, *Impact of Faculty Professional Development on Student Learning Outcomes in Developmental Mathematics, 2012*. Major Professor: Dr. Bennie Lowery

Doctoral Students Advised (Academic advising for all or part of graduate student's program)

Mary Corey

SERVICE AND PUBLIC OUTREACH

Service To The Discipline/Profession/Interdisciplinary Area(s)

Editorships/Journal Reviewer Experience

- Reviewer for Education Sciences, open access journal, ISSN: 2227-7102 (2018-present)
- Reviewer for Sustainability, an open access journal, ISSN: 2071-1050 (2018-present)
- Reviewer for the Educational Studies in Mathematics, an international journal ISSN: 0013-1954 (2015-present)
- Invited reviewer for book proposal for Introduction to Cultural Mathematics: With Case Studies in the Otomies and the Incas by Thomas Gilsdorf with the John Wiley & Sons publishing company, 2011
- Invited guest editor for Journal of College Reading and Learning, 2010-2011
- Invited guest editor for Journal of Urban Mathematics Education (JUME), 2010-2011.
- Invited accuracy checker for Elementary/Intermediate Algebra by George Woodbury, Addison-Wesley, 2010.
- Invited accuracy checker of Business Mathematics by Charles Miller, Stan Saltzman, & Gary Clendenen, Addison-Wesley, 2007
- Invited co-editor of The Learning Assistance Review, 2004 – 2006
- Invited co-editor of the Center for Research on Developmental Education and Urban Literacy Monograph Series, 2003 – 2007
- Invited chair of a special NADE ad hoc committee to recommend new guidelines and structures for NADE publications, March 2003 – March 2004
- Invited guest editorial board member of The Learning Assistance Review, spring 2003.
- Invited reviewer of Introductory Algebra for The Next Millennium by Rikki Blair, 2003.
- Co-editor of the National Association of Developmental Educators Monograph Series, April, 2000 – 2003
- Invited reviewer of Elementary Algebra by Tom Carson and Ellyn Gillespie, Addison-Wesley, 2002
- Invited accuracy checker of Mathematics in Action, Prealgebra Problem Solving, Addison Wesley, 2002
- Invited comparative reviewer of Elementary Algebra: concepts and Application, 6e by Bittinger/Ellenbogen vs. Beginning Algebra, 3e by Martin-Gay, Addison-Wesley, Winter 2002
- Editorial board member of the The Center for Research on Developmental Education and Urban Literacy, 2001 – 2002
- Co-editor of the MDEC Selected Conference Papers, April – September, 2000
- Member of the National Association of Developmental Educators (NADE) Reader and Strand Leader for Conference proposals in Mathematics 1998 – 1999, Editorial Board Member.

Committee memberships [indicate if the candidate served as chair]

- Working group coordinator for Research in Mathematics for Two Year Colleges at the MAA (Mathematical Association of America) Research in Undergraduate Mathematics Education (RUME) session for 2022. Boston, MA
- Working group coordinator for Research in Mathematics for Two Year Colleges at the MAA (Mathematical Association of America) Research in Undergraduate Mathematics Education (RUME) session for 2013. Denver, CO.
- Appointed member of the AMATYC Task Force on Standards – 2012. This group (14 persons) is charged with reviewing and making recommendations for the revision of AMATYC Beyond

Crossroads Document, the profession standards for introductory college mathematics before calculus.

Central Region Coordinator for RMETYC (Research in Mathematics Education for Two-Year Colleges. Fall 2009 – Present. A national appointment by the AMATYC (American Mathematical Association for Two-Year Colleges) Board.

Invited participant, 2nd Intentional Meeting on Future Directions in Developmental Education, University of Minnesota, The Center for Research on Developmental Education and Urban Literacy, April, 2001 Minneapolis, MN.

Selected participant in the 1999 – 2001 NADE Think Tank.

Past-president, Michigan Developmental Education Consortium (MDEC) 2000 – 2001.

Selected participant in the 1999 and 2000 State-Level Community College Leadership Conference: Charting the course for the new century. Sponsored by the Office of the Vice-Provost for University Outreach, Michigan State University and the Post-Secondary Services Unit, Michigan Department of Education.

President, Michigan Developmental Education Consortium (MDEC) 1999 – 2000.

President-elect, Michigan Developmental Education Consortium (MDEC) 1998 – 1999.

Review panels for external funding agencies, foundations, etc.

Proposal review panel member for the National Science Foundation, January 2003.

Program review experience

Program reviewer for the developmental mathematics program, Palo Alto College. March – May 2005. San Antonio, TX.

Proposal review panel member for the National Science Foundation, January 2003.

Service To The University/College/Department

University of Minnesota

University-wide service

Member of the University Senate Committee on Information Technologies Leadership (2021 – 2023)

Collaborative Online International Learning (COIL) faculty cohort (2018-2019)

Chair of the University Senate Committee, Library (2016 – 2019)

University and Faculty Senate Member, 2015-2017

Alternate Delegate for the Faculty Senate, 2014-2014.

Member of the University Senate Committee, Equity, Access and Diversity, 2013 – 2015.

Member of the Vice President for Equity and Diversity Search Committee, Jan., 2011 – Nov., 2012

Chair of the University Senate Committee, Equity, Access and Diversity, 2009 – 2013.

Collegiate Service and Intercollegiate Service

Member of the CEHD Student Scholastic Standing Committee (2015-present)

Elected Member of the CEHD Governance Council, 2015-2016

Elected member of the College of Education and Human Development (CEHD) Governing Council representing PsTL, 2008 – 2015

Member of the CEHD Continuing Professional Education and Development Committee (CPEDC), 2006 – 2007
Elected member of the General College Curriculum Committee, 2005 – 2007
Member of the CEHD Teaching and Learning (TnL) Neighborhood Coordinating Group, 2007 – 2009
Advisory committee member of the General College Alumni Society Committee, 2004 – 2007
Member of the General College Grants Coordinator Search Committee, spring 2004
Member of the General College Director, Development and Alumni Relations Search Committee, Summer 2003
Panel member for the General College Academic Misconduct Hearing, Summer 2003
Member of the General College Multicultural Concerns Committee, 2003 – 2006
Elected member of the General College Policy and Planning Committee 2003 – 2005

Department/Unit Service

Mathematics Education Program Activities Coordinator (Fall 2023-present)
Member of the PsTL Graduate Program Alignment committee (2014-2015)
Graduate Admission and Financial Aid Committee Member, Elected, 2014-2015
Member of the Department of Postsecondary Teaching and Learning (PsTL) Assessment Working Group, 2007 – 2009
Chair of the Scholarship Committee for PsTL, 2007

Eastern Michigan University

Member of the Eastern Michigan University (EMU) Mathematics Department Head Search Committee, appointed by the Dean of Arts and Sciences. October, 2001 – March 2002.
Member of the EMU Strategic Planning Committee, Crosscutting Committee on Undergraduate Education, 2001
Advisory council member for The Holman Learning Center 1998 – 1999
Member of the Basic Studies Task Force, 1998
Member of the EMU Retention Council and co-chair of the New Student Retention Assessment Subcommittee, 1994

Public And Other Service

Community, state, national, or international service activities
Invited participant for the Metro Higher Ed Consortium, January 2004 - 2005
Invited participant, 3rd Intentional Meeting on Future Directions in Developmental Education, University of Minnesota, The Center for Research on Developmental Education and Urban Literacy, November, 2002
Advisory board member for The Center for Research on Developmental Education and Urban Literacy, 2002 – 2008
Webmaster for Michigan Developmental Education (NADE chapter) Consortium Jan 2000 – July, 2002