



SANDRA TROTMAN

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Summary

Dedicated, innovative Associate Professor with over twenty years of experience in teaching mathematics education. Prepares students for personal and professional success through proven teaching methods and motivation. Mentors undergraduate and graduate students to build future field leaders and researchers. Committed to serving as mentor and liaison for over seven hundred members of Kappa Delta Pi, an international education honors society.

Skills

- Lesson planning
- Student performance evaluation
- Curriculum creation
- Online class discussion
- Academic advisement
- Classroom instruction
- Academic presentations/publications
- In-class lectures
- Mentoring
- Service learning
- Group and individual instruction
- Team building and leadership
- Planning and coordination
- Computer skills & online instruction
- Communication
- People skills
- Reliable and trustworthy
- Microsoft Office
- Decision-making
- Community Collaboration

Experience

Nova Southeastern University | Davie, FL
Associate Professor
08/2002 - Current

- Responsible for the Undergraduate Teacher Education Mathematics major (grades K-12),
- Responsible for receiving national accreditation for the Bachelor of Science Degree in Secondary Education with a concentration in Mathematics.
- Designed and created professional development Trainer of Trainers mathematics modules geared towards implementing the Florida State Standards.
- Collaborated to produce i) DOE approved ESOL infused mathematics course for elementary mathematics, and ii) a new undergraduate Mathematics Education major: Bachelor of Science Degree in Secondary Education with a concentration in Mathematics.
- Planned and presented Mathematics webinars and workshops, and integrated literature, Science, Technology, and Engineering designs in Mathematics.
- Actively participated in departmental committee activities, including evaluation of peers as well as education programs.
- Supervised and mentored Doctoral dissertation candidates, as well as undergraduate education pre-service candidates
- Supervised field and internship experiences.
- Contributed expertise to assist with departmental expansions and course changes.
- Adapted teaching methods and instructional strategies to promote learning in students of differing skill levels.

- Delivered instruction in different formats: live, online and hybrid (Blend Flex, Synchronous, and Asynchronous)
- Aligned classroom instructional strategies with district, state, and national requirements/standards.
- Formulated well-structured syllabus of course content to detail learning goals and expected outcomes for both undergraduate and masters' students.
- Planned and executed research projects to expand body of academic work.
- Integrated technology into regular classroom used for student engagement and learning.
- Designed collaborative learning exercises to capitalize on faculty, students, and alumni resources and skills.
- Managed consistent, learning-focused classroom environments by establishing and communicating clear objectives for all students.
- Demonstrated responsibility to meet deadlines, prioritize responsibilities and accept and apply constructive feedback.
- Collaborated with peers on research to develop new insights and valuable professional relationships.
- Researched and contacted subject matter experts to consult on research.
- Interviewed potential honors students for the Nova Southeastern University Undergraduate Honors College
- Sought training in effective teaching methods to reach upper-level undergraduate students.

St. Vincent Ministry of Education |
Kingstown, St. Vincent And the Grenadines
Assist Principal & Head of Math Dept.
11/2000 - 08/2002

- Collaborated with personnel from the Ministry of Education and educators from the Eastern Caribbean States to harmonize the mathematics curriculum for elementary students in that region.
- Developed positive relationships with school students, teachers, and local community.
- Monitored student discipline actions and worked with teachers to standardize behavior requirements across school.
- Oversaw and guided all mathematics teachers while giving friendly and focused feedback for improvements in assessment and instruction.
- Organized and implemented training for mathematics teachers for grades 6-12.
- Interacted positively with staff to demonstrate professional conduct expectations of teaching.

St. Vincent & the Grenadines Ministry of
Education | Kingstown, St. Vincent
Senior Mathematics Teacher
09/1983 - 07/1995

- Adapted teaching methods and instructional strategies to promote learning in students of differing skill levels.
- Taught various kinds of math at standard, remedial and advanced levels.
- Met with parents and guardians to discuss student progress and areas for improvement.
- Prepared, administered, and graded assignments and examinations.
- Instructed students and supported understanding of math concepts.
- Administered tests, quizzes and other assignments to gauge students' learning and knowledge of course materials.
- Fostered students' commitment to lifelong learning by connecting course materials to broader themes and current events.

Education and Training

Teacher Education

06/1983

University of The West Indies | Mona, Jamaica

Public Administration

06/1990

University of The West Indies | Cave Hill, Barbados

Bachelor of Science in Mathematics & Teacher Education

06/1992

University of Waikato | Hamilton, New Zealand

Master of Science in Mathematics Education

1997

University of Waikato | Hamilton, New Zealand

Ph.D. in Mathematics Education

1999

Nova Southeastern University | Davie, FL, USA

TESOL Training

2003

Public Broadcasting Services (PBS) Teacherline | Florida, USA

Online Facilitator Training

2007

Nova Southeastern University | Davie, FL

Clinical Educator Training

2009

School Choice, Florida's Charter School | Florida, USA

New Applicant Training

2009

Nova Southeastern University | Davie, FL, USA

Black Board Training

2009

- Completed professional development in delivering instruction using Blackboard (2009, 2015, 2016)

Nova Southeastern University | Davie, FL, USA

LiveText, Canvas, BlendFlex

- Completed professional development in Technology and Cybersecurity

NCTM/CAEP

Mathematics Program Reviewer

- Completed professional development in reviewing Mathematics programs - Council for the Accreditation of Educators Preparation (CAEP) Programs
- Certified from 2015 - present time.
- Presently a Lead Mathematics Program Reviewer

Nova Southeastern University | Davie, FL, USA

Collaborative Institutional Training Initiative

Nova Southeastern University, FL

Collaborative Institutional Training Initiative, University of Miami, FL

Certified. 2018 (most recent)

Nova Southeastern University (EVERFI) | Davie, FL, USA

Activities and Honors

- Advisor, Kappa Delta Pi Omega Theta (NSU KDP) (2008 - present) - cohorts in the USA and Puerto Rico.
- KDP Scholarship Awards reviewer.
- Reviewer of KDP Educational Forum - a peer-reviewed journal.
- KDP 2018 Southeast Regional Chapter Counselor of the Year! Out of more than 350 counselors in the region.
- Gold winner - "KDP Omega Theta Literacy Alive! Building Stronger Communities" was selected as a 2017-2018 Gold Winner!
- Gold winner - KDP Omega Theta, honored recipients of the 2020-2021 Community Service and Literacy Alive! Chapter Program Award presented by Kappa Delta Pi, International Honor Society in Education.
- Lead Mathematics Education Program Reviewer - (CAEP).
- Successfully led NSU-FCE receiving "Full Recognition"/ accreditation of the B.S Secondary Mathematics program by National Council for Accreditation of Teacher Education (NCATE) CAEP in 2013.
- 2002 Undergraduate Education ESOL endorsed program DOE submission - ELEM 4350 Methods of Teaching Mathematics in the Elementary School recognized by FLDOE as a model ESOL integrated course.
- Collaborated to create and implement professional development Trainer of Trainers mathematics modules geared towards implementing the Florida State Standards. (Florida Teacher Quality Grant)

Publications

Robertson, Jan., Trotman, Sandra, & Galbraith, Ann. (1997). *Action research: A strategy for School and Teacher Development*. Hamilton, NZ: University of Waikato.

This booklet was produced to celebrate and promote the use of action research as a tool for school and teacher development. While this publication was developed as a resource for the professional development of student-teachers, classroom teachers and others interested in using action research as a tool for improving learning in education, it is also the writers' intention that the publication will spark discussion about "teachers-as-researchers".

Robertson, Jan., Trotman, Sandra, & van Boheemen, Margaret. (1997). *Networking New Zealand education leaders electronically: A Research Report on the Establishment of the Leaders-Net List server Discussion Group*. Hamilton, NZ: University of Waikato.

Trotman, Sandra. (1997). Secondary School Mathematics Teachers' Views of Assessment: Some insights from the Caribbean. *Mathematics Education Research Group of Australasia Incorporated, People in Mathematics, MERGA20, Conference Proceedings, Volume 2*. New Zealand.

Trotman, Sandra. (1998). Student self-assessment: Some insights from St Vincent. *Transformation in Higher Education: Conference Proceedings: Higher Education Research and Development Society of Australasia*. Auckland, N.Z. [Available online] <http://www2.auckland.ac.nz/cpd/HERDSA/HTML/TchLearn/Trotman.HTM>

Trotman, Sandra. (1998). Student Self-assessment: An alternative approach. Paper presented at HERDSA Conference in New Zealand.

Trotman, Sandra. (1998). The value of interviews as an alternative form of assessment in Mathematics education. *SAME papers*. University of Waikato, New Zealand.

Trotman, Sandra, et al. (2001 - 2002). Produced material for the new Caribbean Primary Mathematics Series and the teachers' guide. Co-authored and published two books: *Caribbean Primary Mathematics (CPM series) Level 4; and Caribbean Primary Mathematics (CPM series) Teacher's Guide Level 4*. Oxford: Ginn and Company, A part of Harcourt Education Ltd.

Trotman, Sandra. (2005). *The Caribbean Primary Mathematics Revision Guide*. Oxford: Ginn and Company, A part of Harcourt Education Ltd.

Watson-Huggins, J., & Trotman, S. (2019). Gamification and motivation to learn math using technology. *Quarterly Review of Distance Education*, 20(4), 79-91.

Synergistic Activities

Trotman, Sandra. (2004). *Math is everywhere: Teachers making the connection*. Paper presented at the Project MIND – Math is not difficult Conference PACE enter for the Girls, May 5-6.

- Trotman, Sandra. (2004). *Real-life math instruction (student centered)*. Paper presented at the Project MIND – Math is not difficult Conference PACE enter for the Girls, May 5-6.
- Trotman, Sandra. (2005). *Using Ethnomathematics with ESOL Learners*. Paper presented at The Sunshine State TESOL Conference, Orlando, Florida, April 30.
- Trotman, Sandra. (2005). *Hippity hop! Puppetry prop! It's math fun time!* Paper presented at the Florence Fuller Child Development Center on May 4 and at the Ethel F. Beckford/Richmond Elementary on May 18.
- Trotman, Sandra. (2005). *Hippity Hop! There goes Mr. Tan Gram!* Paper presented at the Florence Fuller Child Development Center on May 5.
- Huang, Hui Fang., Trotman, Sandra., & Bright, Tony. (2006). *Project A+ (Autism + Mathematics = Communication)*. Paper presented at the 38th Annual National Council of Supervisors of Mathematics Conference, St. Louis, MO, April 24.
- Huang, Hui Fang., Trotman, Sandra., Marinas, Carol., & Kemp, Mary. (2007). *Utilize Innovative Partnership to Offer Online Staff Development and Peer Support*. Paper presented at the 39th Annual National Council of Supervisors of Mathematics Conference, Atlanta, GA, March 19 -21.
- Trotman, Sandra. (2007). Professional Development: Number Sense, Place Value, and Problem Solving. ESE Mathematics Teacher Training Workshop, Orange City Elementary School Teacher Training.
- Trotman, Sandra. (2011). How much digital Technology should be used in classrooms? Paper presented at the KDP 48th Biennial Convocation, Crossroad of Excellence, Indianapolis.
- Trotman, Sandra. (2011). Data Analysis, Grades 3-5. A Professional Development project/Trainer of Trainers Module 46. Florida Teacher Quality Grant, Middle and Secondary Mathematics - implementing the Next Generation Sunshine State Standards. NSU/Fischler, USA.
- Trotman, Sandra. (2011). Customary and Metric Units of Measurement, Grades 3-5. A Professional Development project/Trainer of Trainers Module 1, Block 34. Florida Teacher Quality Grant, Middle and Secondary Mathematics - implementing the Next Generation Sunshine State Standards. NSU/Fischler, USA.
- Trotman, Sandra. (2011). Introducing Decimals, the extended decimal family & Computation - Adding and Subtracting Decimals, Grades 3-5. A Professional Development project/Trainer of Trainers Module 1, Block 31, 32 & 33. Florida Teacher Quality Grant, Middle and Secondary Mathematics - implementing the Next Generation Sunshine State Standards. NSU/Fischler, USA.
- Trotman, Sandra. (2011). Organizing Data: graphing, Grades 3-5. A Professional Development project/Trainer of Trainers Module 1 Block 47. Florida Teacher Quality Grant, Middle and Secondary Mathematics - implementing the Next Generation Sunshine State Standards. NSU/Fischler, USA.
- Trotman, Sandra. (2011). Measures of Central tendency, Grades 6-8. A Professional Development project/Trainer of Trainers Module 1 Block 46. Florida Teacher Quality Grant, Middle and Secondary Mathematics - implementing the Next Generation Sunshine State Standards. NSU/Fischler, USA.
- Trotman, Sandra. (2011). Analyzing and Interpreting Data, Grades 6-8. A Professional Development project/Trainer of Trainers Module 1 Block 48. Florida Teacher Quality Grant, Middle and Secondary Mathematics - implementing the Next Generation Sunshine State Standards. NSU/Fischler, USA.
- Trotman, Sandra. (2011). Probability, Grades 6-8. A Professional Development project/Trainer of Trainers Modules 49 – 52. Florida Teacher Quality Grant, Middle and Secondary Mathematics - implementing the Next Generation Sunshine State Standards. NSU/Fischler, USA.
- Trotman, Sandra. (2011). Geometry and Measurement, Grades 6-8. A Professional Development project/Trainer of Trainers Module 1 Block 34. Florida Teacher Quality Grant, Middle and Secondary Mathematics - implementing the Next Generation Sunshine State Standards. NSU/Fischler, USA.
- Trotman, Sandra., & Bonilla, Claudia. (2012). Teaching and Learning- Using manipulatives, Module 1. A Professional Development project created with a video component for Teachers in Haiti. NSU/Fischler, USA.
- Trotman, S., & Crevecoeur, Carisse. (2012). Teaching and Learning- Integrating Mathematics and Literature, Module 2. A Professional Development project created with a video component for Teachers in Haiti. NSU/Fischler, USA.
- Trotman, Sandra. (2013). Teachers' Technological Classroom Practices: Teachers/Users or Watchers? Paper presented at Florida Distance Learning Association (FDLA) 2013 Annual Conference - In the Cloud and Beyond: Building Community and Expanding Distance Education, Kissimmee, Florida.
- Trotman, Sandra. (2015). Building Relationships: KDP Members Model Classroom Behaviors. Paper presented at the KDP 50th Biennial Convocation, Growing Great Minds. Orlando. FL.
- Shuifang, A., Coughlin, J., Terrell, S., Kabot, S., & Trotman, S. (2018). STEM Projects with Higher Education Institutions both in the U.S. and Asia and How to Motivate Next Generation Students. Paper presented at NSU Law's International

Faculty Teaching Conference, *Engaging, Advising & Assessing Next Generation Law Students*, July, 24 - 27, 2018, Shepard Broad College of Law.

Huggins, Janice & Trotman, Sandra. (2018). Gamification: Integrating Technology into the Mathematics Curriculum. Paper presented at KDP 2018 Convocation, *Designing the future*, Indianapolis, IN., Nov. 1-3, 2018.

Booth, Patricia & Trotman, Sandra. (2018). Educators as Change Agents: Actions to support and sustain students with disabilities. Paper presented at KDP 2018 Convocation, *Designing the future*, Indianapolis, IN., Nov. 1-3, 2018.

Huggins, Janice & Trotman, Sandra. (2019). Gamification: Using Technology to improve student math performance. Paper presented at 2019 FDLA/FAMTE Conference, *Venture Higher: Expanding the Possibilities of Distance Learning*, Altamonte Springs, FL, January 30 – February 1, 2019.

Jean-Joseph, Alix., Jean-Joseph, Levenle., & Trotman, Sandra. (2019). Engaging all students: Integrating hands-on math activities and technology. Paper presented at 2019 FDLA/FAMTE Conference, *Venture Higher: Expanding the Possibilities of Distance Learning*, Altamonte Springs, FL, January 30 – February 1, 2019.

Huggins, Janice & Trotman, Sandra. (2019). Gamification and motivation to learn math using technology. Paper presented at Nova Southeastern University *Going Deeply Digital Promises & Challenges of the Digital Curriculum in Higher Education* conference, Ft. Lauderdale, FL., Feb. 15-16, 2019.

Trotman, Sandra & Moore, Rashid. (2019, May 7). Covid-19 'New Normal': Reshaping the teaching/learning platform [Webinar]. In *NSU KDP Omega Theta Webinar Series*.

Trotman, Sandra & Mendez, Maria G. (2020, September 11). Strategies for managing stress and losses [Webinar]. In *NSU KDP Omega Theta Webinar Series*.

Trotman, Sandra & Mendez, Maria G. (2020). Teaching remotely: Student engagement in STEM activities. Paper presented at FDLA/FAMTE Virtual Conference-Distance Learning: *Raising the bar for K-20*, September 30-October 2, 2020.

Huggins, Janice & Trotman, Sandra. (2020). Social Media and Covid-19: WhatsApp and its effect on the Educational Landscape in Jamaica during Covid-19 pandemic. Paper presented at FDLA/FAMTE Virtual Conference-Distance Learning: *Raising the bar for K-20*, September 30-October 2, 2020.

Trotman, Sandra & Mendez, Maria G. (2020). STEAM Connection: Design & Engineering Invention with a Purpose. ExEL Early Immersion Experience Workshop conducted for Nova Southeastern University, October 10, 2020.

Trotman, Sandra & Mendez, Maria G. (2021). Connecting Science and Math with Children's Literature. ExEL Early Immersion Experience Workshop conducted for Nova Southeastern University, September 22, 2021.

Trotman, Sandra., Watson-Huggins, J., & Mendez, Maria. G. (2021). Reframing the Challenges: Collaborating to help Pre-K students and teachers overcome remote learning challenges. Paper presented at the FDLA 2021 Annual Conference (Virtual), *Emerging with new digital potentials*, September 29-October 1, 2021.

Trotman, Sandra., & Reed, Joseph. (2021). Fostering students' productive struggle using Demos during Blend-Flex learning. Paper presented at the FDLA 2021 Annual Conference (Virtual), *Emerging with new digital potentials*, September 29-October 1, 2021.

Ocasio, Keila., Trotman, Sandra., & Mendez, Maria. G. (2021). Engaging special education struggling learners in a virtual setting. Paper presented at the FDLA 2021 Annual Conference (Virtual), *Emerging with new digital potentials*, September 29-October 1, 2021.

Green, J., Trotman, Sandra., & Watson-Huggins, J. (2021). Digital Software - Using Gamification + Artificial Intelligence to enhance mastery of Math Content. Paper presented at the FDLA 2021 Annual Conference (Virtual), *Emerging with new digital potentials*, September 29-October 1, 2021

Keynote Speaker: Remote learning challenges: Surviving, Pivoting, and Rebuilding during a pandemic. International Conference "Theveli 2021", Research towards pandemic response, recovery, and resilience, August 23 to 24, 2021.

(e) Collaborators and Other Affiliations

Dr. Marliese Hogan, NSU (Florida Teacher Quality Grant)

Dr. Jason Gershman, NSU (NSU Halmos College of Arts and Sciences - Mathematics Director)

Dr. Angie Su/ Huang, Hui Fang, NSU (Mathematics Education, FAMTE and FDLA)

NSU FCE Dissertation Committee Chair/Member: Drs. Barbara Christina, David Weintraub, Melinda Coleman, Anne Joslin, Mel Coleman, Mary Clisbee, Gina Peyton

Dr. Vanaja Nethi, NSU Research collaborator

Dr. Berta Capo, NSU/FCE Research collaborator & Grant proposal collaborator

Dr. Maria Grethel Mendez, NSU/FCE/KDP Research collaborator

Dr. Janice Watson Huggins, NSU Alumni/KDP Research collaborator
Dr. Rashid Moore, NSU Research collaborator
Grant/Scholarship Reviewer: Kappa Delta Pi, Indianapolis, IN
Reviewer: Educational Forum, Kappa Delta Pi, Indianapolis, IN
Mathematics Program Reviewer: National Council of Teachers of Mathematics (NCTM)/National Council for Accreditation of Teacher Education (NCATE)/Council for the Accreditation of Educators Preparation (CAEP) Programs
Honors Program Interviewer: NSU Honors College
Faculty contact Florida Fund for Minority Teachers (FFMT)
Member: National Council of Teachers of Mathematics (NCTM)
Member: Florida Association of Mathematics Teacher Educators (FAMTE)
Member: Florida Distance Learning Association (FDLA)
Chapter Counselor & Member: Kappa Delta Pi (KDP) Counselor/ NSU Omega Theta Chapter 584
Member: NSU Honors College Coordinating Committee
Lead Reviewer: Council for the Accreditation of Educator Preparation (CAEP) (2018)

Webinars

Attended and participated in:

- NCTM/Texas Instruments webinars on integrating math-specific technology (T3TM)
- STEM webinars/STEAM Universe/STEM Connector
- Sanford Inspire webinars/inspire.org
- DA web series
- edWeb
- Texthelp Webinars
- USDLA Live Webinars
- U.S. Department of Education STEM Webinars
- National Science Foundation meetings/Webinars
- NSU Learning and Educational Center Webinars
- KDP Webinars