

Sandra Vernon-Jackson, Ph.D.

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ACADEMIC HISTORY

Doctor of Philosophy in Teaching and Learning with a concentration in Mathematics Education, December, 2008, Georgia State University, GA

Masters of Art in Curriculum & Instruction with a concentration in Mathematics Science Middle Grade, June 1998, Clark Atlanta University, GA

Bachelor of Science in Meteorology, May 1985, State University of New York, College at Oneonta, NY

PROFESSIONAL EXPERIENCE

2018 –Present	STEM Instructor and Director of STEM Lab University of South Florida, St. Petersburg, FL
2015–2018	Adjunct Instructor and Research Consultant University of South Florida, St. Petersburg, FL
2015–2018	Adjunct Instructor St. Petersburg College, St. Petersburg, FL
2013–2015	District Mathematics Instructional Specialist Duval County Public Schools, Jacksonville, FL
2011–2012	Adjunct Professor Jacksonville University, Jacksonville, FL
2010–2013	District IB & AICE /Mathematics Instructional Specialist Duval County Public Schools, Jacksonville, FL
2009–2010	Mathematics Education Specialist/Nation Coach National Training Network, Charlotte, NC
2004–2008	Urban Graduate Research Collaboration Fellow Georgia State University, Atlanta, GA
2004–2005	Graduate Teacher Assistant Georgia State University, Atlanta, GA
2000–2004	Eighth Grade Mathematics Teacher Leader, STEM / School Leadership Team J.E.B. Stuart Middle School, Jacksonville, FL

1996–2000	Eighth Grade Mathematics Teacher Salem Middle School, Lithonia, GA
1995–1996	Eighth Grade Science Teacher Oak Grove Middle School, Pinellas Park, FL
1994–1995	Ninth Grade Remedial Mathematics Teacher Sheffield Junior & Senior High School, Memphis, TN
1991–1994	Eighth Grade Mathematics and Science Teacher Ralph Bunche Middle School, Atlanta, GA
1985–1991	Meteorologist-Tropical Forecaster, Supervisor & Lead Weather Channel, Atlanta, GA

RESEARCH and SCHOLARLY ACTIVITIES

Publications

Vernon-Jackson, S., & Matthews, L. (under review). A Study of Jamaican girls' ethnic identity influence on learning mathematics. *Pedagogy, Culture & Society*.

Jett, C. C., McNeal Curry, K., & Vernon-Jackson, S. (2016). Let our students be our guides: McNair Scholars “guide” three urban teacher educators on meeting the needs of culturally diverse learners. *Urban Education, 51*(5), 514–533.

Presentations

Vernon-Jackson, S. (2018, September). Thinking Algebraically in Context. Examples for Teacher Educators. Presented at the Sixth International Realistic Mathematics Education Conference (RME6). Grand Cayman, Cayman Islands.

Vernon-Jackson, S. & Hensberry, K. K. R. (2018, September). Problem Solving in Context: Examples from Teacher Education. Presented at the International Realistic Mathematics Education Conference in the Grand Cayman Islands

Rosengrant, D., Hensberry, K. K. R., Vernon-Jackson, S., & Gibson-Dee, K. (2018, November). Developing and implementing STEM Standards for educators. Association of American Colleges and Universities Transforming STEM Higher Education Conference, Atlanta, GA.

Vernon-Jackson, S., Billingslea, T., Royal, D., & Jackson, P. (2013). *Pearls: Girls igniting a passion in S.T.E.A.M.* lead presenter at A Dream Deferred: The Future of African American Education Conference, College Board, Chicago, IL.

McNeal, K., Jett, C. C., & Vernon-Jackson, S. (2009). *Let our students be our guides: McNair scholars speak to what makes diverse students successful.* Paper presented at the annual meeting of the American Educational Research Association, San Diego, CA.

Vernon-Jackson, S. (2008). Dissertation topic: *Jamaican Girls' Ethnic Identity and the*

Mathematics Classroom: An Ethnographic Case Study. Unpublished doctoral dissertation, Georgia State University: Electronic Theses and Dissertation Database

Vernon-Jackson, S. (2008). *Integrated High Tech-U curriculum (STEM) in algebra and geometry by using states and national standards: New York, California Tennessee, and Texas*. Presented at the SEMI-HighTech U Conference, Albany, NY

Vernon-Jackson, S., & Matthews, L. (2007). *Exploring the resilience of Jamaican born middle grades girls in the mathematics classroom*. Paper presented at the America Educational Research Association (AERA). Chicago, IL.

Nosegbe, O., & Vernon- Jackson, S. (2007). *Reading the world through numbers*. National Council of Teacher of Mathematics (NCTM) Conference, Atlanta, GA.

Vernon-Jackson, S., & Matthews, L. (2007). *Exploring the resilience of Jamaican born middle grades girls in the mathematics classroom*. Paper presented at the QUIG Conference. University of Georgia, Athens, GA.

Vernon-Jackson, S. (2007). *Calculators in mathematics and science: Curriculum Integration*. Semiconductor Automated Manufacturing Electronics-Training and Education Conference (SEME-TE) / High Tech. U. Irvine, TX.

Vernon-Jackson, S. (2006). *Implementing and integrating the use of Semiconductors and Nanotechnology into the Mathematics and Science curriculums*. Semiconductor Automated Manufacturing Electronics-Training and Education Conference (SEME-TE)/SEMI-High Tech U, San Francisco, CL.

Vernon-Jackson, S. (2006). *Exploring the resilience of Jamaican born middle grades girls in the mathematics classroom*. Unpublished urban research project, Georgia State University, Atlanta, GA.

Vernon-Jackson, S. (2005). *The 'race issue' in mentoring new teachers*. Unpublished urban research project, Georgia State University, Atlanta, GA.

Vernon-Jackson, S. (2003). *Innovative and Investigative Approaches to Mentoring STEM Teachers: Action Research Project*. Paper presented at the Urban Educators Institute, Jacksonville, FL.

Vernon-Jackson, S. (2003). *Will mentoring a group of African American girls at J.E.B. Stuart Middle School in the area of math, science and technology build over all confidence, self-esteem and greater identification with these subjects? An action research project*, research project, University of North Florida, Jacksonville, FL.

Vernon-Jackson, S. (2003). *Algebra for all 8th graders project: A pilot study-* Duval County Public Schools, Jacksonville, FL.

Vernon-Jackson, S. (2002, 2003). *Innovative and Investigative Approaches to Mentoring STEM Teachers: Action Research Project*, Duval County Public Schools, Science Engineer Communication Mathematics Enrichment Program (SECME) Project. Unpublished research project.

Vernon-Jackson, S. (2003). *Will mentoring a group of African American girls at J.E.B. Stuart Middle School in the area of math, science and technology build over all confidence, self-esteem and greater*

identification with these subjects? An action research project, research project, University of North Florida, Jacksonville, FL.

Vernon-Jackson, S. (2003). *Algebra for all 8th graders project: A pilot study*- Duval County Public Schools, Jacksonville, FL.

Vernon-Jackson, S. (2002, 2003). *Innovative and Investigative Approaches to Mentoring STEM Teachers: Action Research Project*, Duval County Public Schools, Science Engineer Communication Mathematics Enrichment Program (SECME) Project. Unpublished research project.

Posters

Nosegbe, O., & Vernon-Jackson, S. (2006). *Differentiated instruction for cognitively diverse learners*. Poster presented at the annual meeting of the Psychology of Mathematics Education- North America Chapter (PME-NA), Mérida, Yucatán, Mexico.

Vernon-Jackson, S. (2003). *G.I.R.L.S Mentoring Group: Action Research Project*. Poster session of the Florida Association of Science Teacher Conference (FAST). Jacksonville, FL.

Vernon-Jackson, S. (2018). *Thinking Algebraically in Context. Examples for Teacher Educators*. Poster to be presented at the Sixth International Realistic Mathematics Education Conference (RME6). Grand Cayman, Cayman Islands.

Vernon-Jackson, S. & Hensberry, K. K. R. (2018). *Problem Solving in Context: Examples from Teacher Education*. To be presented at the Sixth International Realistic Mathematics Education (RME6) Conference in Grand Cayman, Cayman Islands.

Modules

Vernon-Jackson, S. (2009). *Removing the fear from fun fraction. Professional development module for elementary grades teachers*. Module presented at Coastal Plains RESA MSP Summer Institutes, Valdosta, GA.

Vernon-Jackson, S. (2004). *Algebra Walk & Human Graph*. Module presented at the Science Engineer Communication Mathematics Enrichment Program (SECME) Summer Institute, University of Houston, Houston, TX.

Thymes, E., Vernon-Jackson, S. (2004). *Algebra plus air pressure and its effects on weather forecasting*. Module presented at the Science Engineer Communication Mathematics Enrichment Program (SECME) Summer Institute, University of Houston, Houston, TX.

Vernon-Jackson, S. (2003). *Atmospheric Pressure and Algebra and its effect on Weather Forecasting: A Math and Science module*. Module presented at the Science Engineer Communication Mathematics Enrichment Program (SECME), Summer Institute, Tennessee State University, Nashville, TN.

TEACHING

University of South Florida St Petersburg

EDG 3943 – Integrated Clinical Experience
EDG 6931 – Teaching Pre-Secondary Math
MAC1105 – College Algebra
MAE 4314 – Math for All Students
MAE 6316 – Geometry & Measurement for Elementary Grades
MAE 6329 – Geometry & Measurement for Middle Grades
MAE 6650 – Technology Enhanced Numerical Analysis for Middle Grades
MAE 6554 – Technology Enhanced Algebra for Elementary Grades Teachers
STA 2023 – Introductory Statistics

St. Petersburg College

MAE 3320 – Interactive Middle School Mathematics Projects
MAE 3823 – Connections through Algebraic Thinking

Georgia State University

EDCI 6450 – Principles of Instruction in Middle Childhood Mathematics and Science (TA)
EDCI 7540 – Theory / Pedagogy Middle Childhood Education Mathematics & Science (TA)
EDCI 7660 – Practicum I
EDCI 7640 – Practicum II
EDCI 7680 – Practicum III
EDU 401 – Measurement, Evaluation and Assessment in Education

SERVICE

Service to the Profession

2011 – Present	Vice President, Executive Board-Pearls of Perfection (STEM) Mentoring Incorporation
2012 – Present	Lead Mentor, Discourse within the Profession (DwP), organized monthly meeting for teachers new to the profession, in-service teachers, and new assistant principals
2012	Item Writer and Reviewer, Florida Interim Assessment Item Bank and Test Platform (IBTP)-FL Common Core Assessment
2000-2004	Tutorial Teacher, J.E.B Middle School- (All grades CMP, CPM Mathematics & Algebra I)
2000–2004	Lead Coordinator, <u>G</u> aining <u>I</u> nspiration for <u>R</u> eal <u>L</u> ife <u>S</u> uccesses (G.I.R.L.S) Mentoring Group, J.E.B. Stuart Middle School. Science Engineer Communication Mathematics Enrichment Program (SECME) After School Activity Club Coordinator, J.E.B Stuart Middle School Chapter
2003 – 2006	Lego Robotic Programming- Workshop for grades 3-8 structure and program designing. (National Society of Black Engineers- NSBE and SECME)
2000 – 2004	District Master Teacher and District Liaison, Duval County Public Schools, Science Engineer Communication Mathematics Enrichment Program

(SECMP), Science Engineer Communication Mathematics Enrichment Program (SECME)

Service to the University

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| 2006 – 2007 | Vice-President, Georgia State University International Student Association-Graduate Chapter |
| 2005 | Co-Developer and Facilitator, Middle Childhood Education –TEEMS Graduate Level Seminars |
| 2018 | Director of STEM and Robotics Summer Camp. Launched USFSP's first STEM and Robotics Summer Camp. Developed and wrote the curriculum for the first USFSP 2018 STEM and Robotics Summer Camp. Directed and provided leadership for over 50 middle grades students and 12 staff. |

HONORS AND RECOGNITIONS

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| 2007 | Awarded the Semiconductor Automated Manufacturing Electronics-Training and Education Conference SEMI-(SEME-TE) Educator of the Year - Awarded for Excellence in Workforce Education, Irving, TX |
| 2005–2008 | Received the Urban Graduate Research Collaborative Fellowship, Georgia State University, Atlanta, GA |
| 2003 | Awarded for Outstanding Teaching Style and Teacher Leader, Jacksonville, Urban System Initiative, Jacksonville, FL |
| 2003 | Selected as Teacher of the Year: J.E.B. Stuart Middle School, Jacksonville, FL |
| 2003 | Selected to Participate on the NASA Education Astronaut Evaluation Team, NASA Marshall Space Flight Center Huntsville, AL |
| 2002 | Recognized as Outstanding Teacher for integrating STEM activities in the classroom, Duval County Schools, Jacksonville, FL |

GRANTS

Vernon-Jackson, S. (2002). Before and after school STEM / Robotics activities. SECME Inc. Funding Amount: \$5,000. ((Role: Principal Investigator)

Vernon-Jackson, S. (2003). G.I.R.L.S. Mentoring group project. NASA Urban Schools. Funding Amount: \$1,000 (Role: Principal Investigator)

Vernon-Jackson, S. (2003). Algebra for all 8th Graders Project a Pilot Study. Jacksonville Urban System Initiative. Funding Amount: \$500 ((Role: Principal Investigator)

Vernon-Jackson, S. (1997-2000). AIM HIGH: A tutorial grant program. DeKalb County School. Funding Amount: \$10,000 (Role: Principal Investigator)

PROFESSIONAL CERTIFICATIONS

State of Florida, Mathematics Middle Grades (5-9) 2011-present
State of Georgia, T-5 Math 1991-present

PROFESSIONAL AND CIVIC MEMBERSHIPS

- America Educational Research Association (AERA)
- American Meteorological Society (AMS)
- Benjamin Banneker Association (BBA)
- Golden Key Honor Society
- National Council of Teachers of Mathematics (NCTM)
- Phi Delta Kappa