**Wardell A. Powell**

Curriculum Vitae

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**EDUCATION**

2014 Ph.D., Curriculum and Instruction Teaching and Learning in Science  
University of South Florida, Tampa, FL

Dissertation: *The Effects of Emotive Reasoning on Secondary School Students’ Decision-Making in the Context of Socioscientific Issues*

Dissertation Advisor: Dana L. Zeidler, Ph.D.

2003 Master of Science in Science Education

Herbert H. Lehman College

City University of New York, Bronx, NY

2000 Bachelor of Arts in Biology

Herbert H. Lehman College

City University of New York, Bronx, NY

1992 Associate of Science in Agriculture, 1992

College of Agriculture

Portland, Jamaica W. I.

**CERTIFICATION** State of Florida Professional Educators’ Certificate in Biology 6-12

**PROFESSIONAL EMPLOYMENT**

Fall 2017-Present:

Framingham State University, Framingham, MA 01701

Coordinator and Advisor:  M.Ed. in Science, Technology, Engineering, & Mathematics (STEM)

Co-coordinator of Post Baccalaureate and M.Ed. Secondary Education Programs

Instructor of the Following Courses

* Secondary Methods: Special Needs and Educational Technology
* Secondary Science Methods with Field Study II
* A World Connected: Interdependence and Systems in Science
* 21st Century Technologies for Teaching and Learning
* Elementary Professional Practicum A
* Elementary Professional Practicum B
* Student Teaching Practicum and Seminar, I & II–Middle and High School Science
* Student Teaching Practicum and Seminar, I & II–Middle and High School History

Fall 2016-Spring 2017:

University of Massachusetts, Amherst. Department of Student Development, School of Education

Co-Instructor of the Following Courses

* Introduction to Special Education
* Investigating Science Classrooms

Fall 2016:

Hampshire College School of Critical Social Inquiry, Amherst, MA01002

Instructor of the Following Courses

* Making and Unmaking the School to Prison Pipeline

2015-2017 Post-Doctoral Research Fellowship in Special Education Curriculum Development

for Incarcerated Youth**,** University of Massachusetts-Amherst.

2013-2015. Instructional Science Coach. Polk County School Board, Florida.

2003-2013 Science Teacher of Special and General Education Students. Pasco High School,

Dade City, Florida.

2002-2003 Science Teacher of Special and General Education Students. Grace Dodge

Vocational High School, Bronx, NY.

2000-2002 Science Teacher of Students with Severe Emotional and Behavioral Disorders.

Theodore Roosevelt High School, Bronx, NY:

1997-2000 Direct Support Professional for people who are intellectual and developmentally

disabled. Center for Family Support. New York, NY.

1995-1997 Direct Support Professional for people who are intellectual and developmentally

disabled. Catholic Garden Society. New York, NY.

**BOOK CHAPTER PUBLICATIONS**

Powell, W. A. (In Preparation). Framework for Using Geospatial Technology to Promote

Middle School Students’ Critical Thinking on Socioscientific Issues. In the upcoming book Next Generation Digital Tools and Applications for Teaching and Learning Enhancement. IGI Global.

Powell, W.A., & Fuchs, D. (2019). Using Socioscientific Issues to Enhance Evidence-Based

Reasoning Among Middle School Students. In S. Robinson & V. Knight (Eds.), Handbook of Research on Critical Thinking and Teacher Education Pedagogy (pp. 150-176). IGI Global.

Krezmien, M.P, Powell, W.A, Bosch, C, Nieswandt, M. (2017). The Use of

Mobile Technology to Support Inquiry Science for Students Incarcerated in Juvenile Justice Settings (IGI Global: Disseminator of Knowledge).

**PRESENTATIONS**

Powell, W.A. Using Socioscientific Issues to Promote Critical Thinking Among Gifted Middle

School Students. Paper presented at the Council for Exceptional Children Annual Conference and Expo, Indianapolis, Indiana (February, 2019).

Powell, W.A. Using Socioscientific Issues Curriculum to Engage Middle School Students in

Dialogue on the Cases of Asthma in Poor Communities. Paper presented at the National Science Teachers Association National Harbor Area Conference, National Harbor, MD (October, 2018).

Powell, W.A. & Zeidler, D.L. Impact of Socioscientific Issues on Middle School Students'

Character and Values for Global Citizens. Paper accepted for the annual conference of NARST-A Worldwide Organization for Improving Science Teaching and Learning Through Research, San Antonio, TX. (April 2017).

Powell, W.A., Bosch, C., Nieswandt, M., & Krezmien, M.P. Teachers Use of Mobile

Technology Platform to Promote Scientific Inquiry Skills among Incarcerated Youth with Special Needs. Paper accepted for the annual conference of the National Science Teachers Association, Los Angeles, CA (March, 2017).

Bosch, C., Powell, W.A., & Krezmien, M.P. Extending the Meaning of Access in Science: Co-

Designing Curriculum with Students in the Margins. Paper accepted for the Annual conference of the National Science Teachers Association, Los Angeles, CA (March, 2017).

Powell, W.A. Impact of Socioscientific Issues on Middle School Students’ Ecological

Worldview on Biotechnology. Paper accepted for the annual conference of the Association for Science Teacher Education, Des Moines, IA (January 2017).

Powell, W.A. Impact of Socioscientific Issues on Middle School Students’ Character and Values

for Global Citizens. Paper presented at the Northeastern Educational Research Association 47th Annual Conference, Trumbull, CT. (October 2016)

Powell, W.A. Secondary School Students’ Empathetic Reasoning on Socioscientific

Issues. Sponsored by the University of Massachusetts, Amherst. College of Education Doctoral Program in Mathematics, Science, & Learning Technologies. (February, 2016).

Powell, W.A. & Zeidler, D.L. The Impact of Emotive Reasoning on Secondary School

Students’ Integration of Scientific Considerations in their Decision-Making on Socioscientific Issues. Paper accepted for the annual conference of NARST-A Worldwide Organization for Improving Science Teaching and Learning Through Research, Chicago, IL. (April 2015).

Powell, W.A. & Zeidler, D.L. The Impact of Emotions on Secondary School Students’

Decision-Making on Socioscientific Issues. Paper accepted for the annual conference of the Association for Science Teacher Education, Portland, Oregon (January 2015).

Powell, W.A. & Zeidler, D.L. (2014). The Effects of Emotive Reasoning on Secondary

School Students’ Ability to Evaluate Evidence on Socioscientific Issues. Paper presented at the annual conference of NARST-A Worldwide Organization for Improving Science Teaching and Learning Through Research, Pittsburgh, PA. (April 2014).

Powell, W.A. & Zeidler, D.L. (2014). The Effects of Emotive Reasoning on Secondary

School Students’ Ability to Evaluate Evidence on Socioscientific Issues. Paper presented at the annual conference of the Association for Science Teacher Education, San Antonio, TX. (January 2014).

Powell, W. A., Zeidler, D. L., & Huling, M. D. (2012). The Use of Socioscientific Issues

to Assess Students’ Argumentation Quality. Paper presented at the annual conference of the Association for Science Teacher Education, Clearwater Beach, Florida.

Powell, W. A., Zeidler, D. L., & Huling, M. D. (2012). Informal Reasoning Patterns:

What Students’ Writing Reveals about their Conceptions of Cloning Animals for their Body Part. Paper presented at the annual conference of the Association for Science Teacher Education, Clearwater Beach, Florida.

Huling, M. D. & Powell, W. A. (2012). How Understandings of the Nature of Science

and Broader Epistemological Beliefs Affect Reasoning Ability. Paper presented at the annual conference of the Association for Science Teacher Education, Clearwater Beach, Florida.

Zeidler, D. L., Ruzek, M., Herman, B. C., Orasky, J. & Powell, W., (2011). “Cross-

cultural epistemological orientations to socioscientific issues.” Paper presented at the European Science Education Research Association Conference, Lyon, France. Sept 5, 2011.

Zeidler, D.L., Ruzek, M. Powell, W.A., Orasky, J., Applebaum, S., Chin, C.C., Lin, S.S.,

Linder, C., Linder, A. & Herbert, M. (2011). Cross-Cultural Epistemological Orientations to Socioscientific Issues. Paper presented at the 84th Annual Meeting of the National Association for Research in Science Teaching April, Orlando, Florida.

Powell, W.A. (2009). Teaching, Learning and Inquiry with Socioscientific Issues.

Workshop presented to Hillsborough County Schools, Summer Professional Development Workshop, July 20-24, FL.

**GRANT PROPOSAL: Funded or Unfunded**

Powell, W.A. (Spring 2019). Chris Walsh Educator and Family Resource Center of MetroWest.

Funding Source: Civic Engagement and Service Learning Center. Framingham State University. $1000. Role PI. Status: Funded.

Powell, W.A. Powell (Fall 218). Using Socioscientific Issues to Promote Critical Thinking

Among Gifted Middle School Students. Funding Source: Framingham State University Foundation, Inc. $1468.58.14. Role. PI. Status: Funded

Powell, W.A. (Summer 2018). Forging Inclusive and Collaborative Partnerships Between the

Community and Framingham State University. Funding Source: Framingham State University Foundation, Inc. $1302.14. Role. PI. Status: Unfunded

Powell, W.A. (Spring 2018). *Using Socioscientific Issues to Enhance Middle School Students’*

*Understanding of Human Impacts on Earth’s Systems*. Funding Source: Center for Excellence in Learning, Teaching, Scholarship and Service (CELTSS). Framingham State University. $1440. Role PI. Status: Funded.

Powell, W.A. (Fall 2017). *Using Socioscientific Issues to Enhance Middle School Students’*

*Understanding of Human Impacts on Earth’s Systems*. Funding Source: Center for Excellence in Learning, Teaching, Scholarship and Service (CELTSS). Framingham State University. $1500. Role PI. Status: Funded.

Powell, W.A. (2016). *Using Project-Based Inquiry Science to Enhance STEM Literacy among*

*Incarcerated Students*. Funding Agency: National Academy of Education. $70,000. Role: PI. Status: Unfunded.

**CURRICULUM AND DEVELOPMENT EXPERIENCE**

2018 Developed an inquiry driven science curriculum titled, “Using Socioscientific Issues to Enhance Middle School Students”for the Steppingstone Foundation, Boston, Massachusetts

2015-2017 Developed Universal Design for Learning Science Curriculum for Incarcerated Special Education and Other Marginalized Learners. University of Massachusetts-Amherst Amherst, MA.

2015-2017 Developed Professional Development Sequence to Support Teachers in Juvenile Corrections Settings. University of Massachusetts-Amherst Amherst, MA.

2014 Developed Biology 1 and Biology Honors Curriculum for Polk County Public Schools Polk County, FL.

2010-2011 Designed technology-based inquiry environmental science modules for Orange County water management district. University of South. Florida. FL.

2010 Designed inquiry-based biology curriculum maps in Biology for the District

School Board of Pasco County. Pasco County, FL.

**WORKSHOPS**

Powell, W.A, Shaw, S., & Gurguliatos, S. (2018). Analyzing perceptions of practice related to

the Candidate Assessment of Performance Elements. Workshop provided to Framingham State University Program Supervisors. Framingham, MA.

Powell, W.A. (2015). **Invited Workshop** “Inquiry-Based Learning.” Workshop provided

via Skype to Benbigh High School Science Teachers, Clarendon, Jamaica, W.I.

Powell, W.A. (2015). **Invited Workshop** “Using 5E model of instruction to enhance

elementary students scientific experiences in the classroom.” Workshop provided to Polk County Schools Elementary Teachers. Polk County, FL.

Powell, W.A. (2014). **Invited Workshop** “Using 7E model of instruction to enhance

Students’ content knowledge in biology.” Workshop provided for Polk County Schools Biology Teachers. Polk County, FL.

**PROFESSIONAL LEADERSHIP**

2018 Editorial Reviewer. American Journal of Psychology

2017 Editorial Reviewer. Journal of Science Education

2016 Editorial Reviewer. IGI Global.

2011 Review Research Proposal. National Association for Research in Science Teaching (NARST)

2011 Review Research Proposal. Association for Science Teacher Education (ASTE)

2014-2016 Publication Advisory Committee Member. National Association for Research in

Science Teaching (NARST).

2010-2011 Instructional Material Committee Member. Florida Department of Education. FL

**EDUCATION FACULTY COMMITTEE WORK**

Fall 2017 Tenure-Track Faculty Search Committee Member, Department of Education

Fall 2017 Data Manager Search Committee Member, Department of Education

Fall 2017 Graduate Curriculum Committee—Framingham State University

**MEMBERSHIPS IN PROFESSIONAL ORGANIZATIONS**

National Association for Research in Science Teaching (NARST)

Association for Science Teacher Education (ASTE)

Council for Exceptional Children