

Tara M. Nkrumah
Arizona State University
College of Liberal Arts and Science
Center for Gender Equity in Science and Technology
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EDUCATION

Ph.D. Educational Leadership & Policy Studies 2019
University of South Florida, Tampa, Florida
Certificate: Qualitative Research
Dissertation: *Weaved Journeys: Leading Toward Equity in Science Education*
Advisor and Dissertation Chair: Dr. Vonzell Agosto

M.Ed. Curriculum and Instruction 2000
Tennessee State University, Nashville, Tennessee

B.S. Environmental Science/Minor: Biology 1995
Middle Tennessee State University, Murfreesboro, Tennessee

Areas of Expertise: Science and STEM Education, Culturally Responsive Teaching, Arts-Based Methodologies, Curriculum and Leadership Development

PROFESSIONAL EXPERIENCE

ACADEMIC

Postdoctoral Fellow of Research Strategic Initiatives 2019 - present
Center for Gender Equity in Science and Technology
Arizona State University

Field Researcher 2019
NSF International Research Experience for Students (IRES) Program Track I:
US-Ghana Collaboration: Providing Opportunities for Global Research on
Water Sanitation and Hygiene

Project Manager 2018 - 2019
USF/Polk County Florida, Masters of Educational Leadership
Schools of Hope – Whole School Transformation Model (Traditional Public Schools)
May 2018 – July 2019

Subject Area Leader, Instructional Coach, Science Teacher 2014 - 2019
Greco Middle School, Tampa, Florida

Science Teacher, Curriculum Writer 2007 - 2014
Middle Years Program (MYP)/International Baccalaureate (IB) Program
Lincoln Community School, Accra, Ghana

OTHER TEACHING EXPERIENCE**Supervising:**

Practicum Supervisor, (9/2017 -11/2017): Cooperating teacher to University of South Florida masters level science interns. My responsibilities included at least 100 contact hours of supervision related to teacher practices, lesson planning and mentoring. Greco Middle School, Temple Terrace, Florida.

Assisting:

Assistant Instructor, May 2018 – July 2019, Schools of Hope - Masters of Educational Leadership: *Culturally Relevant Leadership, Administrative Analysis and Change, Foundations of Curriculum*

Lecturing:

Guest Lecturer, Culturally Responsive Teaching/Theatre of the Oppressed (Masters Course) (11/2020): using Paulo Freire's philosophy with Augusto Boal's gaming activities to demonstrate the implementation of culturally responsive praxes when working with under-resourced communities. Conducted in *Planning, Implementation, Evaluation of Social Pedagogy Programs*, Arizona State University, Tempe.

Guest Lecturer, Culturally Responsive Teaching in STEM for historically marginalized students (Staff) (9/2019): using Paulo Freire's philosophy with Augusto Boal's gaming activities to train the staff on enacting culturally responsive practices. Conducted at the Arizona Science Center, Phoenix, AZ.

Guest Lecturer, Pedagogy of the Oppressed/Theatre of the Oppressed workshop (Doctoral Course) (2/2019): using Paulo Freire's philosophy with Augusto Boal's gaming activities to enact image theatre. Conducted in *Curriculum Foundations*, University of South Florida.

Guest Lecturer, Pedagogy of the Oppressed/Theatre of the Oppressed workshop (Masters Course) (11/2018): using Paulo Freire's philosophy with Augusto Boal's gaming activities to enact image theatre. Conducted in *Curriculum Foundations*, University of South Florida.

Facilitating:

Seminar Co-Facilitator, Basham, S., Grosland, T., Nkrumah, T. (workshop) (3/2019): Mentoring high school girls from diverse communities in the Tampa Bay Area to lead social change entitled *Stepping Up, Speaking Out, and Disrupting Silence*. Conducted at the *11th Annual Tampa Bay Young Women's Leadership Symposium*, The University of Tampa.

Seminar Co-Facilitator, Grosland, T. (workshop) (2/2019): Professional development training on mentoring and coaching educational leaders entitled *Changing Leaders, Changing Times: Warming a "Chilly" Workplace and Retaining Your Talent*. Conducted in *Professional Learning Alliance*, University of South Florida.

Seminar Co-Facilitator, Bratspis, A., & Agosto, V. (Doctoral Course) (7/2017): Pedagogy of the Oppressed/Theatre of the Oppressed workshop using Paulo Freire's philosophy with Augusto Boal's gaming activities to enact image theatre. Conducted in *Appreciative Inquiry and Organizing in Public Education*, University of South Florida.

Seminar Facilitator, Pedagogy of the Oppressed/Theatre of the Oppressed workshop (Doctoral Course) (6/2017): using Paulo Freire's philosophy with Augusto Boal's gaming activities to enact image theatre. Conducted in *Curriculum Theory*, University of South Florida.

Seminar Co-Facilitator, Bratspis, A. (Doctoral Course) (3/2017): Pedagogy of the Oppressed/Theatre of the Oppressed workshop using Paulo Freire's philosophy with Augusto Boal's gaming activities to enact image theatre. Conducted in *Curriculum Analysis*, University of South Florida.

Seminar Co-Facilitator, Salaam, O.J., Roland, E., Willis, S. (Doctoral Course) (2017): Ethnodramatic community performance 'Goodbye to all that! An accomplished teacher's last year in the Chicago Public Schools. Conducted in *Curriculum Theory*, University of South Florida.

Seminar Facilitator, Presentation of Study (Doctoral Course) (2016): *Science education: A descriptive case study of African American students' perceptions*. Conducted in *Qualitative Methods #2*, University of South Florida.

SCHOLARLY PUBLICATIONS

*Undergraduate Student

**Graduate Student

ARTICLES: REFEREED SCHOLARLY JOURNALS

Nkrumah, T. (In press). Problems of portrayal: *Hidden Figures* in the development of science educators. *Cultural Studies in Science Education*

Morton, T. R., & **Nkrumah, T.** (2021). A day of reckoning for the white academy: reframing success for African American women in STEM. *Cultural Studies of Science Education*, 1-10.

Agosto, V., Roberts, L., Bratspis, A., Valcarlos Migueliz, M., **Nkrumah, T.**, Reynolds, E., Warren, N., & Grosland, T. (RR due 1/2021). Embodied apprehensions: Joking bodies as performance arts-based critical qualitative inquiry. In G. S. Cannella, M. Koro, M. F. Huckaby, J. Wolgemuth (Eds.), *Critical qualitative inquiry: Justice matters in en(tangled) times*. International Review of Qualitative Research (IRQR).

Alsultan, J., Rice, M., Feldman, A., **Nkrumah, T.**, Ergas, S., Ghebremichael, K. (2021). Biosand Filters for Water Purification, *The Science Teacher*, 88(4).

Nkrumah, T. (Under Review). The Science and Art of Educating, Engaging, and "Being Ms. Ashland". Thirteen Papers and Interviews submitted to *The Qualitative Report*. Co-Edited by Vonzell Agosto, Cynthia Lubin Langtiw, and Charles Vanover in consultation with the Qualitative Report Editorial Board. Seven performances, five peer-reviewed and two community.

Zeidler, D., Herman, B., Kinskey, M., Mitchell, M., Wikman, K., **Nkrumah, T.**, Willis, S., Applebaum, S. (In progress). Identifying socioscientific orientations in the context of socioscientific Issues.

Anderson, A. W., Branscombe, M., & **Nkrumah, T.** (2015). Crossing blocked thresholds: Three stories of identity, embodied literacy, and participatory education, *Journal of Language and Literacy Education*, 11(2), 170-185.

MANUSCRIPTS IN PREPARATION

Nkrumah, T., Scott, K.A., **McInnes, L. (In progress). Mentoring in STEM Higher Education: synthesis of the literature to (re)present the excluded women of color.

Nkrumah, T., Scott, K.A. (In progress). “Tech” tualizing Culturally Responsive Computing with White Rural Teachers.

Nkrumah, T., Roland, E., & Dhillon, S.K. (in preparation). *Come Get Your Sister: Critical Relationships Among Women of Color Doctoral Students –Paper Session*. International Congress of Qualitative Inquiry, Champaign, IL.

Nkrumah, T., & Willis, S. (in preparation). Expanding socioscientific issues (SSI) curriculum to address equity and social justice.

BOOK CHAPTERS

Miles Nash, A., **Nkrumah, T.**, Ottley, R. G., Mason Peeples, K., & Pierre, D. (In press). *Sankofa sisters: Returning to sisterhood to secure our progress*. In D. J. Davis, D. Davis-Maye, T. Bertrand Jones, & J. Andrew, (Eds.), *Black Sisterhoods: Black Womyn’s Representations of Sisterhood Across the Diaspora*. Bradford, ON: Demeter Press.

Nkrumah, T., Agosto, V., Feldman, A., & Bradley, F. (2020). From “WASH” to WEAVE: Leadership Mentoring Against Racial Microaggression. In Cobb-Roberts, D., & Esnard, T. (Eds.). *Mentoring as critically engaged praxis: Storying the live and contributions of Black women administrators*. Information Age Publishing.

NON-REFERRED ARTICLES

Nkrumah, T. (2016). The legacy of Imah in my life as a science educator, Blog – Christine Sleeter, www.christinesleeter.org

CONFERENCE PRESENTATIONS

NATIONAL AND INTERNATIONAL REFEREED PRESENTATIONS

Nkrumah, T. (February 2021). *Promoting Diversity, Equity, Inclusion in STEM: A Culturally Responsive Computing Framework*. Conference on Religion, Ethics & Science (CORES) 2021.

Nkrumah, T. (March 2020). *U.S. and Ghana: Exploring Cross-Cultural Perspectives on Engagement in Science for Underrepresented Students*. NARST A worldwide organization for improving science teaching and learning through research, Portland, OR. (Conference canceled)

Zeidler, D., Herman, B., Kinskey, M., Willis, S., Wickman, K., Mitchell, M., Applebaum, S., **Nkrumah, T.** (March 2020). *Identifying Socioscientific Orientations in the Context of Socioscientific Issues*. NARST A worldwide organization for improving science teaching and learning through research, Portland, OR. (Conference canceled)

Zeidler, D., Herman, B., Kinskey, M., Mitchell, M., Wickman, K., **Nkrumah, T.**, Willis, S., Applebaum, S. (January 2020). *Influencing Students’ Social and Moral Compassion Through Socioscientific Issues*. Association for Science Teacher Education, San Antonio, TX.

Nkrumah, T. (September 2019). *Weaved Journeys: Life Writings of Leading and Engaging in Science Education*. Arizona Postdoctoral Research Conference, Phoenix, AZ.

Nkrumah, T. (April 2019). *Joking Performance Engagement: Awakening Science Students’ Critical*

- Consciousness Development For Social Change*. American Educational Research Association, Toronto, Canada.
- Nkrumah, T.** (January 2019). *Transforming Data Through Literary Métissage: Learning Science Educators' Leadership/Followership Style Toward Engagement in Science Education*. The Qualitative Report, Fort Lauderdale, FL.
- Nkrumah, T.** (November 2018). "Worker or Leader": *A Critical Media Analysis of Hidden Figures*. Symposium on *Black Women in Educational Leadership: Recovering Hidden Figures, Reclaiming Intersectionality, and Revolutionizing Leadership Praxis*. University Councils for Educational Administration, Houston, TX.
- Edwards, D., Khalil, D., Miles Nash, A. & **Nkrumah, T.** (November 2018). *Black Women in Educational Leadership: Recovering Hidden Figures, Reclaiming Intersectionality, and Revolutionizing Leadership Praxis*. Symposium for the Annual Convention of the University Councils for Educational Administration, Houston, TX.
- Nkrumah, T.,** Zeidler, D., Applebaum, S., Mitchell, M., Weitz, M., Willis, S., & Wikman, K. (March 2018). *Socioscientific Issues: Teaching and learning in an evolving context*. NARST A worldwide organization for improving science teaching and learning through research, Atlanta, GA.
- Nkrumah, T.,** Warren, N., Agosto, V., Bratspis, A., Migueliz Valcarlos, M., Reynolds, E., Roberts, L., & Grosland, T. (March 2018). *Embodied apprehensions: Joking and brokering physical engagement*. The Student Organization on Qualitative Methodologies, Tampa, FL.
- Nkrumah, T.,** Zeidler, D., Applebaum, S., Mitchell, M., Weitz, M., Willis, S., & Wikman, K. (January 2018). *Teaching socioscientific issues in an evolving context*. Association for Science Teacher Education, Baltimore, MD.
- Nkrumah, T.,** Agosto, V., Bratspis, A., Migueliz Valcarlos, M., & Aguilera, C. (January 2018). *Embodied apprehensions: Joking and brokering physical engagement*. The Qualitative Report, Fort Lauderdale, FL.
- Nkrumah, T.,** Agosto, V., Bratspis, A., & Aguilera, C. (November 2017). *Embodied apprehensions: Joking and brokering physical engagement*. University Council of Educational Administration Conference, Denver, CO.
- Nkrumah, T.** (November 2017). *Reimagining school leadership and student voice: A sociocultural perspectives model for science curriculum and pedagogy*. University Council of Educational Administration Conference, Denver, CO.
- Nkrumah, T.** (April 2017). *African American students' perceptions of science education: What they really think*. NARST A worldwide organization for improving science teaching and learning through research, San Antonio, TX.
- Nkrumah, T.,** Willis, S. (April 2017). *Science education for all: Addressing issues of equity and social justice through SSI*. NARST A worldwide organization for improving science teaching and learning through research, San Antonio, TX.
- Nkrumah, T.,** Salaam, O.J., Agosto, V., Willis, S. (April 2017). Juried ethnodramatic performance of "Goodbye to all that! Staged as part of the symposium 'Using an Ethnodramatic Case to Discuss Teaching and Learning in Schools Serving Vulnerable Youth.' for the Interdisciplinary Symposium on Qualitative Methodologies University of South Florida. Cynthia Lubin Langtiw, Discussant. Tampa, FL.
- Nkrumah, T.,** Dhillon, S. K., Roland, E. (November 2016). *De-essentializing women of color: A tri-autoethnographical analysis of a social justice educational leadership doctoral program*. University Council of Educational Administration Conference, Detroit, MI.
- Nkrumah, T.,** Salaam, O.J., Agosto, V., Roland, E. (November 2016). Juried ethnodramatic performance of "Goodbye to all that! Staged as part of the symposium 'Using an Ethnodramatic Case to

Discuss Teaching and Learning in Schools Serving Vulnerable Youth. for the Annual Conference of the University Council of Educational Administration. Anjalé Welton, Tiffany Harris & Stella Resko, Chairs. Detroit, MI.

Nkrumah, T., Dhillon, S. K., Roland, E. and Agosto, V. (October 2016). *Through sisterhood: Navigating intersectionality and transformative leadership.* Curriculum and Pedagogy Conference, Cleveland, OH.

Nkrumah, T., Agosto, V., & Bratspis, A. (May 2016). *Transformative theatre: Engaging image theatre as theory, practice, and research –Interactive Session.* International Congress of Qualitative Inquiry, Champaign, IL.

Nkrumah, T., Anderson, A. W., & Branscombe, M. (February 2015). *Crossing blocked thresholds: Three stories of identity, embodied literacy, and participatory education.* University of Georgia Embodied and Participatory Literacies: Inspire, Engage, Create, and Transform Conference. Atlanta, GA.

INVITED PRESENTATIONS

Nkrumah, T. (February 2021). *Black History Month Forum.* Panel Discussion at ASU NAACP State of Our Nation.

Nkrumah, T. (February 2021). *Diversity, Equity, Inclusion in STEM.* Black History Month LEAD Her Virtual Summit at Intel – Octillo, Arizona

Nkrumah, T. (February 2021). *Black History Celebration.* Presentation at Central Florida Aerospace Academy of Kathleen High School.

Nkrumah, T. (February 2021). *Culturally Responsive Practices for Gender Equity in STEM.* Presentation at Arizona State University Mary Lou Fulton Teaching College on Demonstrating Cultural Intelligence Across Diversities workshop.

Nkrumah, T. & Supriya (October 2020). *Past, present, and imagining the future: (Re) purposing STEM research, curriculum, pedagogy.* Presentation at Arizona State University RISE up for racial justice in SOLS workshop.

Nkrumah, T. (February 2020). *I Know Who I Am.* Presentation at Women’s Lead Her Power Summit at Intel – Octillo, Arizona

Nkrumah, T. (February 2020). *(Re)imaging STEM Teacher Professional Development.* Presentation at the Equity Exchange at Arizona State University.

Nkrumah, T. (December 2019). *Learning From the Lived Experience, Past, Present, Future.* Presentation at the Black African Convocation at Arizona State University.

Nkrumah, T. (September 2019). *Using a Culturally Responsive Framework in the Classroom.* Presentation at the Arizona Science Center

Nkrumah, T. (February 2016). *The legacy of Imah in my life as a science educator,* Critical Family History –Dr. Christine Sleeter, Tampa, FL.

Nkrumah, T. (May 2015). *Women’s Leadership in Doctoral Education & Careers in Academia.* University of South Florida, Tampa, FL.

GRANT UNDER REVIEW AND AWARDED

Hughes, R., Rankin, Y., Leonard, J., Joseph, N., **Nkrumah, T. (Co-PI)** (2021-2023). *Developing a Coding Identity Framework to Guide Informal Coding Educational Programs.* National Science Foundation (NSF) Advancing Informal Science Learning (AISL).

Nkrumah, T. **Primary Investigator** (July 2020). Spencer Foundation Small Grants. (Declined). *Cultivating Adolescent Girls' of Color Physical Activity, Civic Engagement, and STEM Identity: Exploring the Impact of Culturally Responsive Pedagogy with Theatre of the Oppressed.*

HONORS AND AWARDS

Research Fellowship Kwame Nkrumah University of Science and Technology, Ghana	2019
National Science Foundation (NSF)	
Walter and Lillian Berbecker Scholarship	2019
College of Education, University of South Florida	
Walter and Lillian Berbecker Scholarship	2018
College of Education, University of South Florida	
Diversity Educator of the Year Award	2018
Hillsborough County School District	
Jhumki Basu Scholar	2017
National Association for Research in Science Teaching (NARST)	
Highly Effective Teacher Status multiple years	2016/2017/2018
Hillsborough County School District	
Scholars of Excellence Honoree multiple years	2015/2016/2017
Graduate Student Office, University of South Florida	
Graduate Student Success (GSS) Fellowship Recipient	2015
Graduate Student Office, University of South Florida	
Master Teacher Status	2004
Dallas Independent School District	

CERTIFICATIONS

Texas State Board of Education, Secondary Biology (6-12) years

Florida State Board of Education, Secondary Biology (6-12) years

PROFESSIONAL DEVELOPMENT

Sisters of the Academy Signature Research Bootcamp (July, 2017). Hosted at Florida State University, Tallahassee, Florida

22nd Annual Pedagogy & Theatre of the Oppressed Conference, Breaking the silence: From rebellion to waging love (June 2017). Cass Corridor Commons, Detroit, MI

Rod Hale Memorial Graduate Student Success Experience (July, 2015). Hosted by University of South Florida's Office of Graduate Studies.

SERVICE

PROFESSIONAL SERVICE

Panel Reviewer National Science Foundation	2020
Invited Reviewer <i>Science Education</i>	2020
Presider NARST <i>A global organization for improving science education through research</i>	2020
Proposal Reviewer AERA SIG – Critical Issues in Curriculum and Cultural Studies	2019 - present
Chair/Discussant American Educational Research Association (AERA)	2019
Proposal Reviewer Association for Science Teacher Education (ASTE) – Equity and Diversity	2019
Program Representative University of South Florida Graduate Student Council	2018 - 2019
Member Association for Science Teacher Education (ASTE)	2018 - present
Committee Member Ethics & Equity for National Association for Research in Science Teaching (NARST)	2018 - present
Judges Assistant Florida VEX Robotics State Competition	2018
Student Reviewer Journal of Cases in Educational Leadership (JCEL)	2018
Proposal Reviewer AERA Division B – Curriculum Studies	2018 - present
Proposal Reviewer AERA Division B – Histories and Futurities	2018 - present
Proposal Reviewer NARST <i>A global organization for improving science education through research</i>	2017 - present
Member Pedagogy of the Oppressed (PTO)	2017 - present

Member Sisters of the Academy (SOTA)	2017 - present
Member American Educational Research Association (AERA)	2017 - present
Member University Council for Educational Administration (UCEA)	2016 - present
Member Curriculum and Pedagogy Group (C&P)	2016 - present
Member <i>NARST A global organization for improving science education through research</i>	2015 - present
UNIVERSITY SERVICE	
Committee Member CAP Diversity, Equity, and Inclusion	2020 – present
Co-Chair Early Career Research Network (ECRN), Arizona State University	2020 - present
Panelist Black Graduate Student Association Tips on Completing Graduate Studies	2019
Discussant for Graduate Student Association Orientation University of South Florida	2016, 2017, 2018
Discussion Facilitator for Dr. Paul Gorski University of South Florida Workshop	2015
COMMUNITY SERVICE	
Board Member YWCA Metropolitan Phoenix	2020 - present
Member Alliance of Arizona Nonprofit	2020 - present

REFERENCES

- Dr. Vonzell Agosto, Associate Professor, vagosto@usf.edu
University of South Florida, 4202 E. Fowler, Tampa, Florida, 33620
(813) 974-3422
- Dr. Dana Zeidler, Distinguished University Professor, zeidler@usf.edu
University of South Florida, 4202 E. Fowler, Tampa, Florida, 33620
(813) 974-3533
- Dr. Kimberly A. Scott, Professor, kascott3@asu.edu

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