Krystal L. Williams, MS Ph.D.

University of Wisconsin—Madison 253 Education Building 1000 Bascom Mall Madison, WI 53706 Krystal.Williams@wisc.edu KrystalLWilliams.com

EDUCATION

2013-2015	Postdoc	AERA ETS Fellowship in Psychometrics	Educational Testing Service
2005-2014	Ph.D.	Higher Education / Public Policy (K-20 Focus)	University of Michigan
2003	M.S.	Mathematical Sciences	Clark Atlanta University
2003	B.S.	Mathematical Sciences (Valedictorian)	Clark Atlanta University

MASTERS THESIS

Title: The Class of Klamkin Integers

Research Advisor: J. Ernest Wilkins, Jr.

DOCTORAL DISSERTATION

Title: Financial Impediments, Academic Challenges and Pipeline Intervention Efficacy: A

Role Strain and Adaptation Approach to Successful STEM Outcomes for

Underrepresented Students

Committee Members: Philip J. Bowman (Chair), Ed. P. St John, Deborah Carter,

Brian McCall and Robert Jagers

Research supported by the National Institutes of Health - National Institute for General Medical Sciences (1R01Gm088750-01) and based at the University of Michigan National Center for Institutional Diversity

POSITIONS HELD

2024-present Associate Professor

Department of Educational Leadership & Policy Analysis

School of Education

University of Wisconsin—Madison

2021-2024 Assistant Professor

The Louise McBee Institute of Higher Education

University of Georgia

2017- 2021 Assistant Professor

Higher Education Program

Department of Educational Leadership, Policy and Technology Studies

The University of Alabama

2015-2017 Senior Research Associate

Frederick D. Patterson Research Institute United Negro College Fund (UNCF) 2013-2015 Postdoctoral Fellow

Center for Academic and Workforce Readiness and Success

Educational Testing Service

2011-2013 Research Analyst

Institutional Research

Washtenaw Community College

2010-2013 Graduate Research Assistant

National Center for Institutional Diversity

University of Michigan

2005-2010 Graduate Research Assistant

Center for the Study of Higher Education

University of Michigan

2009 Program Coordinator

Profile for Success School of Dentistry University of Michigan

2007 Graduate Assistant

Rackham Graduate School University of Michigan

2006 Research Analyst

Appalachian Regional Laboratory

2004-2006 Research Analyst

The CNA Corporation

AWARDS & HONORS

2022	Association for the Study of Higher Education (ASHE) Excellence in Public Polic	y

Higher Education Award

2022 American Educational Research Association (AERA) Scholars of Color Early Career

Contribution Award

2021-2023 National Science Foundation (NSF) Fellow in the Summer Institute in Advanced

Research Methods (SIARM) for Science, Technology, Engineering and Mathematics

(STEM)

Emerging Scholar for Diverse: Issues in Higher Education

2017 American Educational Research Association (AERA)

Asa G. Hilliard III and Barbara A. Sizemore Fellow

2013-2015 AERA Postdoctoral Fellow at Educational Testing Service (ETS)

2013-2014 Institute for Higher Education Policy Academic Fellow

2010-2011 AERA Minority Dissertation Fellow in Education Research

2009 Edward A. Bouchet Graduate Honor Society, University of Michigan

Inaugural Cohort

2009	Emerging Scholars Interdisciplinary Network Fellow
2006	Association for the Study of Higher Education Graduate Policy Seminar Participant
2005-2010	University of Michigan School of Education Scholar Award
2000	Ford Scholar
2000-2002	United Negro College Fund Mellon Fellowship
1998-2003	Office of Naval Research Program for Research Integration and Support for
	Matriculation to the Doctorate (PRISM-D) Scholar
1998-2003	Clark Atlanta University Honors Program

RESEARCH & PUBLICATIONS

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(*Peer-reviewed; ~ published while at University of Georgia; # published while at University of Alabama; ^published while at the University of Michigan; +co-author was more senior at the time of publication; =co-author was an assistant professor or of the same rank at the time of publication; underlined co-author was a graduate student at the time of publication)

Peer Reviewed Journal Articles, Published or Accepted for Publication

- 1. *~Williams, K.L. (accepted). Deconstructing math identity: A critical quantitative analysis of facets of Black students' math identification. *Journal of Negro Education* (Google Scholar citation count: N/A)
- 2. *~+Taylor, L. D., & Williams, K. L. (2022). Critical sensemaking: A framework for interrogation, reflection, and coalition building toward more inclusive college environments. *Education Sciences*, 12(12), 877. (Google Scholar citation count: 2)
- **3.** *#Williams, K.L., =Mobley Jr., S.D., & <u>Campbell, E.</u>, & <u>Jowers, R.</u> (2022). Meeting at the margins: Culturally-informed practices and culturally engaging environments for underserved populations at HBCUs. *Higher Education*. https://doi.org/10.1007/s10734-022-00816-w (Google Scholar citation count: 21)
- **4.** *#Williams, K.L. & +Taylor, L. (2022). The Black Cultural Student STEM Success Model: A Framework for Black students' STEM success informed by HBCU environments and Black Educational Logics. *Journal of Women and Minorities in Science and Engineering*. DOI: 10.1615/JWomenMinorScienEng.2022036596 (Google Scholar citation count: 8)
- **5.** *#Williams, K.L., & <u>Davis, S.C.</u> (2021). Math challenges, strengths and achievement: Towards a theory of strain-induced performance-perception misalignment for racially marginalized students. *Journal of Women and Minorities in Science and Engineering*. 27(4), 59–90. (Google Scholar citation count: 5)
- **6.** *#Williams, K.L., & <u>Russell, A.</u>, & <u>Summerville, K.</u> (2021). Centering blackness: Culturally-informed strategies for student success at HBCUs. *Innovative Higher Education*. *46*, 733–757. (Google Scholar citation count: 37)
- 7. *#+Dillion, E. & Williams, K.L. (2020). Course content as a tool of inclusivity for Black/African American women in computing. *The Journal of Computing Sciences in Colleges*, 36(3), 151-160. (Google Scholar citation count: 8)

- **8.** *#Williams, K.L., =Coles, J. & <u>Reynolds, P.</u> (2020). (Re)Creating the script: A framework of agency, accountability and resisting deficit depictions of Black student in P-20 education. *Journal of Negro Education*, 89(3), 249-266. (Google Scholar citation count: 56)
- 9. *~Williams, K.L., +Dillion, E., <u>Carter</u>, S., <u>Jones</u>, <u>J</u>. &, Melchoir, S. (2020). CS=Me: Exploring factors that shape Black women's CS identity at the intersections of race and gender. *ACM Transactions on Computing Education*. http://dx.doi.org/10.1145/3631715 (Google Scholar citation count: N/A)
- **10.** *#Williams, K.L. (2020). Contextualizing math-related strengths and math achievement: Positive math orientations, social supports and the moderating effects of prior math knowledge. *Journal of STEM Education Research*. https://doi.org/10.1007/s41979-020-00033-z (Google Scholar citation count: 6)
- 11. *#Williams, K. L., =Mustafaa, F. N., & =Burt, B. A. (2019). Black males and early math achievement: An examination of students' strengths and role strain with policy implications. *Journal of Women and Minorities in Science and Engineering*, 25(4), 325-352. (Google Scholar citation count: 13)
- **12.** *#+<u>Howell, D.</u>, +Norris, A., & Williams, K. L. (2019). Towards Black Gaze Theory: How Black female teachers make Black students visible. *Urban Education Research & Policy Annuals*, 6(1), 20-30. (Google Scholar citation count: 26)
- **13.** *#Williams, K. L., <u>Burt, B. A., Clay, K. L.</u>, & +Bridges, B. K. (2018). Stories untold: Counternarratives to anti-blackness and deficit-oriented discourse concerning HBCUs. *American Educational Research Journal*, 56(2), 556-599. (Google Scholar citation count: 127)
- **14.** *#=Burt, B.A., Williams, K.L., & <u>Palmer, G.</u> (2018). It takes a village: The role of emic and etic adaptive strengths on the persistence of black men in engineering graduate programs. *American Educational Research Journal*, 56(1), 39-74. (Google Scholar citation count: 139)
- **15.** *#=Burt, B.A., Williams, K.L., & +Smith, W.A. (2018). Into the storm: Ecological and sociological impediments to Black males' persistence in engineering graduate programs. *American Educational Research Journal*, 55(5), 965-1006. (Google Scholar citation count: 165)
- **16.** *#Williams, K. L., =Burt, B. A., & =Hilton, A. A. (2016). Math achievement: A role strain and adaptation approach. *Journal for Multicultural Education*, *10*(3), 368-383. (Google Scholar citation count: 33)

Peer Reviewed Book Chapters

- 17. *~Williams, K. L. (2023). Notes on being a Black woman in STEM: A review of existing research concerning the experiences of Black women pursuing undergraduate STEM degrees. In L. Perna (Ed.), *Higher Education: Handbook of Theory and Research* (1-53). Springer Netherlands. (Google Scholar citation count: N/A)
- **18.** *^Williams, K. L. (2014). Strains, strengths and intervention outcomes: A critical examination of intervention efficacy for underrepresented groups. *New Directions for Institutional Research*, 2013(158), 9-22. (Google Scholar citation count: 28)

- **19.** *^Williams, K. L. (2011). The qualified applicant: The origins of admissions tests in higher education. In P.J. Bowman & E.P. St. John (Eds.), *Readings on Equal Education*. New York, NY: AMS Press, Inc. (Google Scholar citation count: N/A)
- **20.** *^=Daun-Barnett, N.J., =Fisher, A.S., & Williams, K. L. (2009). Inquiry in action in the Indiana project on academic success in practice: A formative evaluation of action inquiry in a multicampus context. In D. Hossler, J.P.K. Gross & M. Ziskin (Eds.), *Readings on Equal Education*. New York, NY: AMS Press, Inc. (Google Scholar citation count: 4)
- **21.** *^Williams, K. L., +Hu, S., & +St. John, E.P. (2008). The influence of public funding strategies on college choice: A study of low-income, high-achieving African American students. In W.T. Trent & E.P. St. John (Eds.), *Readings on Equal Education*. New York, NY: AMS Press, Inc. (Google Scholar citation count: N/A)

Invited Publications

- **22.** *#Williams, K.L., & Toldson, I.T. (2020). Reimagining education as a point of resistance. *Journal of Negro Education*, 89(3), 193-202. (Google Scholar citation count: 12)
- 23. *^+St. John, E.P., Williams, K. L., & =Moronski, K. (2010). Public policy and inequality in post-secondary opportunity: Educational statistics and the failure of education reform. In *International Encyclopedia of Education* (vol. 1, pp. 649-660). Oxford, UK: Elsevier. (Google Scholar citation count: 6)

Other Publications: High Impact Peer-Reviewed Conference Proceedings

- **24.** *~+Dillion, E., *<u>Wimberly Jr., T.</u>, *<u>McMichael, M.</u>, *<u>Brown, L.</u>, <u>Dina, A.</u>, & Williams, K.L. (2023). Examining psychological and social factors that impact the experiences and representation of Black women in computer science (A case study). American Society of Engineering Education (ASEE) Annual Conference & Exposition (DOI forthcoming) (Google Scholar citation count: N/A)
- **25.** *~+Dillion, <u>Dina, A., McMichael, M., Wimberly Jr., T., Brown, L.,</u> & Williams, K.L. (2023). Exposing early CS majors to technical interview practices in the form of group-based whiteboard problem solving activities. American Society of Engineering Education (ASEE) Annual Conference & Exposition (DOI forthcoming) (Google Scholar citation count: N/A)
- **26.** *~+Dillion, E., Williams, K.L., <u>Fuller, S., Djapa, E., Dina, A., Wilridge, M. & Rogers, C.</u> (2022). Exploring the Impact of Student Learning and Programming Pedagogy while Adjusting to COVID-19 (An HBCU Case Study). International Conference on Computational Science and Computational Intelligence, 1983-1987. (Google Scholar citation count: N/A)
- 27. *~Williams, K.L., Waisome, J.A.M., <u>Lilly, R.</u> & <u>Josepher, R.</u> (2022). Perspectives on diversity: Examining perceptions of campus and departmental climates amongst domestic and international computing graduate students. Conference on Research in Equitable and Sustained Participation in Engineering, Computing, and Technology (RESPECT), (DOI forthcoming) (Google Scholar citation count: N/A)
- 28. *#+Dillion, E., Williams, B., Ajayi, A., Bright, Z., Kimble-Brown, Q., Rogers, C., Lewis, M., Esema, J., Clinkscale, B., & Williams, K.L. (2021). Evaluating face-to-face vs. virtual pedagogical coding

- review sessions in the CS classroom: An HBCU case study. Conference on Research in Equitable and Sustained Participation in Engineering, Computing, and Technology (RESPECT), pp. 1-5, doi: 10.1109/RESPECT51740.2021.9620586. (Google Scholar citation count: 2)
- 29. *#+Dillion, E., *Williams, B., Ajayi, A., Bright, Z., Kimble-Brown, Q., Rogers, C., Lewis, M., Esema, J., Clinkscale, B., & Williams, K.L. (2021). Exposing early CS majors to coding interview practices: An HBCU case study. Conference on Research in Equitable and Sustained Participation in Engineering, Computing, and Technology (RESPECT), pp. 1-5, doi: 10.1109/RESPECT51740.2021.9620586. (Google Scholar citation count: 6)
- **30.** +Dillon, E., <u>Williams, B., Ajayi, A., Bright, Z., Kimble-Brown, Q., Rogers, C.,</u> & Williams, K. L. (2021, May). Evaluating Face-to-Face vs. Virtual Pedagogical Coding Review Sessions in the CS classroom: An HBCU Case Study. In 2021 Conference on Research in Equitable and Sustained Participation in Engineering, Computing, and Technology (RESPECT) (pp. 1-5). IEEE.
- 31. *#+Dillion, E., & Williams, K.L. (2020). Connecting people with computing: Exploring Black/African-American women's people-centered interests in computing sciences. Conference on Research in Equitable and Sustained Participation in Engineering, Computing, and Technology (RESPECT), pp. 1-2, doi: 10.1109/RESPECT49803.2020.9272447. (Google Scholar citation count: 3)

Other Publications: Policy Reports

- **32.** #Williams, K. L., +Katsinas, S.G., & +Bray, N.J., (2021). *The impact of HBCU capital loan forgiveness*. The University of Alabama Education Policy Center: Tuscaloosa, AL. (Google Scholar citation count: N/A)
- 33. #Williams, K. L. & *Davis, B. L., (2019). Public and private investments and disinvestments in Historically Black Colleges and Universities. American Council of Education: Washington, DC (Google Scholar citation count: 54)
- **34.** #+Anderson, E. L., Williams, K. L., +Ponjuan, L., & +Frierson, H. (2018). *The 2018 status report on engineering education: A snapshot of diversity in degrees conferred in engineering*, Association of Public & Land-grant Universities: Washington, D.C. (Google Scholar citation count: 34)
- **35.** Saunders, K., Williams, K. L., & +Smith, C. (2016). Fewer resources, more debt: Loan debt burdens students at Historically Black Colleges and Universities. UNCF Frederick D. Patterson Research Institute: Washington, DC. (Google Scholar citation count: 30)
- **36.** ^St. John, E., =Fisher, A. S., & Williams, K. L. & =Daun-Barnett, N. (2008). *Educational opportunity in Indiana: A study of the Twenty-first Century Scholars Program*. Lumina Foundation for Education: Indianapolis, IN. (Google Scholar citation count: 21)
- **37.** ^=Zehler, AM., =Adger, C., =Coburn, C., =Arteagoitia, I., Williams, K. L., & +Jacobson, L. (2008). *Preparing to serve English language learner students: School districts with emerging English language learner communities. Issues & answers.* REL 2008-No. 049. U.S. Department of Education, Institute of Education Sciences. (Google Scholar citation count: 50)

38. ^+St. John, E., =Daun-Barnett, N., & Williams, K. L. (2007). State policy, STEM preparation, and college access: A Comparison of Michigan and other states in the great lakes region. Educating a STEM workforce: New strategies for U-M and the state of Michigan conference proceedings. University of Michigan. (Google Scholar citation count: N/A)

RESEARCH & PUBLICATIONS IN PROGRESS

Peer-Reviewed Journal Articles, Revise and Resubmit

Williams, K.L., +Dillion, E., <u>Jones, J., Carter, S.</u>, =Melchoir, S. & <u>Walker, Will</u>. (revise and resubmit). Proving our worth: Role strain and the intersectional marginalization of Black women in computing

Peer-Reviewed Journal Articles, Under Review

<u>Cristy J.</u>, Williams, K.L., <u>Branch, S.</u>, <u>Crow, C.</u>, <u>Miller, J. Richardson, W.</u>, & =Hilton, A. (under review). Race(ism), power, intimidation, & domestic terrorism: A critical content analysis of HBCU bomb threats on social media

Manuscripts in Preparation

<u>Cullen, C., Kunzman, T.E.,</u> & Williams, K. L. At a time of crisis: A critical content analysis of HBCU bomb threats and depictions of campus safety by national and international news media outlets

+Taylor, L. D., & Williams, K. L. Examining Black Educational Logics with implications for higher education organizations

+Burt, B.A., Williams, K.L., & +Smith, W.A. Of Perseverance and triumph: Adaptive strengths and Black male persistence in engineering graduate programs.

Williams, K.L. Academic and financial student role strain: Reconceptualizing common challenges in higher education

Williams, K.L. Understanding STEM interventions: Financial impediments, academic challenges and program efficacy

RESEARCH SUPPORT

Awarded 2023-2028 National Science Foundation (NSF) CAREER—PI When Two Worlds Collide: An Intersectional Analysis of Black Women's Role Strain and Adaptation in Computing Sciences 2022-2023 University of Georgia COVID Impact Recovery Grant—PI Navigating Dual Marginalization: Intersectionality, Role Strain and Adaptation Experiences of Black Women in Computing

2020-2021	NSF Broadening Participation in Computing—Research Scientist Institute for African-American Mentoring in Computing Sciences (iAAMCS)	\$87,388
2019-2020	University of Alabama Auburn University Research Collaboration—Co-PI Culturally-Informed Practices and Black Students' STEM Success at HBCUs	\$700
2019-2022	American Educational Research Association & NSF Research Grant—PI Pathways into STEM: An exploration of math-related strain, math supports and high school math achievement with implications for policy and practice	\$35,000
2019-2024	NSF Scholarships in Science, Technology, Engineering, and Mathematics (S-STEM) Program—PI Collaborative Research: Human-Centered Computing Scholars: Need-based, Extensive Support Through Degree Completion	\$999,998
2017-2019	University of Alabama Research Grant Committee Level 1 Grant—PI Financial Impediments, Academic Challenges and Pipeline Intervention Efficacy	\$6,000
2010-2015	American Educational Research Association Research Support—PI	\$3,000
2011-2015	Understanding Interventions Research Grant—PI	\$3,960
2015	Educational Testing Service (ETS) Research Grant—PI	\$1,000
2006-2013	University of Michigan Angus Grant —PI	\$1,100
2013	University of Michigan Walcott Research Scholarship—PI	\$1,410
2013	Center for the Education of Women Riecker Graduate Student Research Grants—PI	\$2,025
2006-2012	University of Michigan Rackham Research Grant—PI	\$3,650
2012	Association for the Study of Higher Education (ASHE) Graduate Student Network Research Travel Grant	\$400
2012	Hewlett International Research Award—PI	\$950
2009	Center for the Study of Higher and Postsecondary Education Research Grant—PI	\$300
<u>Unfunded</u> 2021-2026	NSF Racial Equity in STEM—PI CS=Me: Barriers, Strengths and Interventions that Influence Black Women's Success in Computing Field	\$1,183,824
2021-2026	NSF CAREER—PI Fostering Positive Academic Development for Black Students in Computing	\$908,617
2020-2025	NSF Broadening Participation in Computing—Research Scientist	\$656,053
Krystal L.	Williams, PhD	8

COMPETITIVE FELLOWSHIPS		
2013-2015 American Education Research Association ETS Postdoctoral Fellowship	\$130,000	
2012-2013 University of Michigan Candidacy Tuition Fellowship	\$5,313	
2013 University of Michigan Higher Education Fellowship	\$2,657	

2005-2010 University of Michigan School of Education Scholarship (tuition, fees, health care & stipend)

1998-2003 Clark Atlanta University Academic Scholarship (tuition, fees & health care)

Institute for Higher Education Policy Fellowship

KEYNOTES AND FEATURED ADDRESSES

2020 University of Michigan

COMPETITIVE FELLOWSHIPS

2013

Rackham Graduate School

Title: Seizing the Moment: Moving Beyond Passive Activism

Fall Welcome Keynote Address

RESEARCH PRESENTATIONS

Critical Quantitative Methods: Applications and Implications for Practice and Education Policy
Partners United for Research Pathways Oriented to Social-justice and Equity (PURPOSE) Proseminar Series
Florida State University
Virtual; May 2023

The Diversity Imperative: Institutional Environments and Diversity Perceptions amongst Domestic and International Computing Graduate Students
American Educational Research Association Annual Meeting
Chicago, IL; April 2023

How Can Higher Education Researchers Influence Higher Education Policymaking? Association for the Study of Higher Education Las Vegas, NV; November 2022

Critical Quantitative Methods: Applications and Implications for Practice and Education Policy
Partners United for Research Pathways Oriented to Social-justice and Equity (PURPOSE) Proseminar Series
Florida State University
Virtual; October 2022

Perspectives on Diversity: Examining Perceptions of Campus and Department Climates Amongst Domestic and International Computing Graduate Students

\$4,000

Research on Equity and Sustained Participation in Engineering, Computing, and Technology (RESPECT) Conference

Philadelphia, PA; May 2022

The Black Cultural Student STEM Success Model: A Framework for Black Students' STEM Success Informed by HBCU Environments and Black Educational Logics
American Educational Research Association Annual Meeting
San Diego, CA; April 2022

Critical Quantitative Methods: Applications and Implications for Practice and Education Policy
Partners United for Research Pathways Oriented to Social-justice and Equity (PURPOSE) Proseminar Series
Florida State University
Virtual; July 2021

Evaluating Face-to-Face vs. Virtual Pedagogical Coding Review Sessions in the CS classroom: An HBCU Case Study

Research on Equity and Sustained Participation in Engineering, Computing, and Technology (RESPECT) Conference

Virtual; March 2021

Exposing Early CS Majors to Coding Interview Practices: An HBCU Case Study
Research on Equity and Sustained Participation in Engineering, Computing, and Technology (RESPECT)
Conference
Virtual: March 2021

Connecting with Computing: Exploring Black/African-American Women's People-Centered Interests in Computing Sciences

Research on Equity and Sustained Participation in Engineering, Computing, and Technology (RESPECT) Conference

Portland, OR; March 2020

Centering Blackness: Culturally-informed strategies for student success at HBCUs American Educational Research Association Annual Meeting San Francisco, CA; April 2020 (Conference Cancelled)

Black Women and Latinas in Engineering Professions: Diversity, Equity, and Human Capital Investments American Educational Research Association Annual Meeting San Francisco, CA; April 2020 (Conference Cancelled)

When We See Us: How Black Female Teachers Make Black Girls Visible American Educational Research Association Annual Meeting San Francisco, CA; April 2020 (Conference Cancelled)

Pathways Into STEM: An Exploration of Math-Related Strain, Math Supports, and High School Math Achievement with Implications for Policy and Practice
American Educational Research Association Annual Meeting
San Francisco, CA; April 2020 (Conference Cancelled)

Creating a Classroom of Inclusivity: Understanding the Experiences of Black/African-American Women in Computing & How they Express their Computational Competencies

Research on Equity and Sustained Participation in Engineering, Computing, and Technology (RESPECT) Conference

Portland, OR; March 2020

High impact practices and successful educational strategies for marginalized communities at HBCUs Mid-South Educational Research Association

New Orleans, LA: November 2019

The Value of a Village in the Middle of a Storm Association for the Study of Higher Education Portland, OR: November 2019

Math Identity & Future STEM Major Choice: A Role Strain & Adaptation Perspective of Black Students' Trajectories

World Educational Research Association (WERA)

Tokyo, Japan; August 2019

Financial Impediments, Academic Challenges & Pipeline Intervention Efficacy: A Role Strain & Adaptation Approach to Understanding STEM Research Career Plans for Underrepresented Students University of Alabama Faculty Research Day

Tuscaloosa, AL; April 2019

From Deficits to Assets: Reframing Discussions about Underrepresented Students of Color Across Engineering Subfields and with Institutional Contexts
American Educational Research Association Annual Meeting
Toronto, ON; April 2019

(Re)Creating the Script
American Educational Research Association Annual Meeting

Toronto, ON; April 2019

Toward Black Gaze Theory: How Black Female Teachers Make Black Students Visible American Educational Research Association Annual Meeting

Toronto, ON; April 2019

The 2018 Status Report on Engineering Education: A Snapshot of Diversity in Degrees Conferred in Engineering

Association of Public & Land-grant Universities Annual Convening

New Orleans, LA; November 2018

Barriers Facing Black Males in STEM: Risk-Resiliency and Intervention Challenges International Colloquium on Black Males in Education Dublin, Ireland; October 2018

Of Perseverance and Triumph:

Adaptive Strengths and Black Male Persistence in Engineering Graduate Programs. World Educational Research Association (WERA)

Cape Town, South Africa; August 2018

Black Men's Persistence in Graduate School: The Role of Emic and Etic Adaptive Strengths American Educational Research Association Annual Meeting New York, NY; April 2018

Critical Contexts and Relationships that Threaten Black Men's Persistence in Engineering Graduate Programs

American Educational Research Association Annual Meeting

New York, NY; April 2018

Stories Untold: Counter-Narratives to Anti-Blackness and Deficit-Oriented Discourse Concerning HBCUs Association for the Study of Higher Education Houston, TX; November 2017

Financing HBCUs: Institutional and Student-Level Challenges American College Personnel Association HBCU Institute Columbus, OH; March 2017

HBCU Contributions to STEM: Undergraduate Degree Production and Pathways towards the PhD White House Initiative on Historically Black Colleges and Universities Washington, DC; October 2016

Historically Black Colleges and Universities:

The Conduit for Black Student Success in Science, Technology, Engineering and Mathematics HBCU Story

Dallas, TX; October 2016

Fewer Resources, More Debt: Loan Debt Burdens Students at Historically Black Colleges and Universities HBCU Story

Dallas, TX; October 2016

Expanding STEM Pathways for Young Black Males. 5th Annual International Colloquium on Black Males in Education Hamilton, Bermuda; October 2016

The Role of Psychosocial Factors in Promoting Successful STEM Outcomes: Noncognitive Skills and Implications for Math Remediation within Community Colleges Association for the Study of Higher Education Denver, CO; April 2015

Financial and Academic Barriers to STEM Intervention Success: A Holistic Assessment of Student Outcomes Annual Conference on Understanding Interventions that Broaden Participation in Research Careers San Diego, CA; May 2015

Academic Interventions, Student Role Strain and Achievement within Community Colleges: A Moderation Analysis of Service Use, Financial Challenges and Academic Barriers American Educational Research Association Annual Meeting Chicago, IL; April 2015

Enrollment Equity and Urban Postsecondary Issues: An Analysis of Domestic Institutions with Global Implications

International Conference on Urban Education

Montego Bay, Jamaica; November 2014

Financial Impediments, Academic Challenges and Pipeline Intervention Efficacy:

A Role Strain and Adaptation Approach to Successful STEM Outcomes for Underrepresented Students Annual Conference on Understanding Interventions that Broaden Participation in Research Careers Baltimore, MD; May 2014

Understanding Multi-Institutional Pathways:

The Influence of Swirling on Degree Attainment at Two-Year and Four-Year Institutions American Educational Research Association Annual Meeting Philadelphia, PA; April 2014

Successful STEM Outcomes for Underrepresented Students:

A Role Strain and Adaptation Framework for Understanding Intervention Efficacy

American Educational Research Association Annual Meeting

Philadelphia, PA; April 2014

Financial Strain, Academic Barriers and Pipeline Intervention Efficacy for Underrepresented Students University of Chile

Santiago, Chile; May 2013

Financial and Academic Barriers as Moderators of Pipeline Intervention Efficacy:

A Role Strain-Adaptation Approach to Successful STEM Outcomes among Underrepresented Students Association for the Study of Higher Education

Las Vegas, NV; November 2012

Annual Conference on Understanding Interventions that Broaden Participation in Research Careers Baltimore, MD; May 2012

The Role of Multilevel Strengths and Student Role Strain in STEM Research Opportunity Interventions:

An Emerging Conceptual Framework

American Educational Research Association Annual Meeting

Vancouver, BC; April 2012

Qualified Applicant: Origins of the SAT

National Meeting for the National Center for Institutional Diversity

Diversity, Merit, and Higher Education: Comprehensive Strategies for the 21st Century

Ann Arbor, MI; March 2012

Research Opportunity Interventions and College/Career Success in STEM Fields: The Role of Multilevel

Strengths and Student Role Strain

Annual Conference on Understanding Interventions that Broaden Participation in Research Careers Nashville, TN; May 2011

A Chicken in Every Pot & College for Every Student: Postsecondary Enrollment Intervals in 2-Year Colleges

American Educational Research Association Annual Meeting New Orleans, LA; April 2011

Meritocracy and Access in American Higher Education International Conference for Doctoral Students of Education Peking University Graduate School of Education Beijing, China; November 2010

New Evidence of (Un)Equitable Representation Over Time: Examining Trends in Latino/a and African American College Enrollment at U.S. Public Institutions
Association for the Study of Higher Education National Conference
Vancouver, BC; November 2009

Expanding College Opportunities: Public Policies and Black Student Enrollment Emerging Scholars Interdisciplinary Network Conference Ann Arbor, MI; July 2009

Access to College: Race Conscious Policies and the Consequences of Colorblindness American Educational Research Association Annual Meeting New York, NY; March 2008

The Influence of Public Funding Strategies on College Choice: A Study of Low-Income, High-Achieving African American Students
Association for the Study of Higher Education National Conference
Anaheim, CA; November 2006

INVITED PANEL PRESENTATIONS

How Can Higher Education Researchers Influence Higher Education Policymaking? Association for the Study of Higher Education Las Vegas, NV: November 2022

Achieving Equity through HBCUs United Negro College Fund Virtual, July 2020

<u>Pedagogy, Research, COVID-19, the Lived Experience During a Global Pandemic: What's Next?</u>

The Higher Education Leadership Foundation

Virtual; May 2020

"Our Voices, Our Stories": The Power Of Student Activism Yesterday & Today University of Alabama Martin Luther King, Jr Commemorative Event Tuscaloosa, AL; January 2019

Purposeful Disruption: Collaboration Accelerators Invited Panelist Discussion United Negro College Fund Career Pathways Initiative Convening Atlanta, GA; July 2019

Black Student Debt Capitol Hill Briefing: Explaining the Crisis and Providing Solutions

The Education Trust

Washington, DC; September 2019

Key Insights for Post Docs and Newly Minted PhDs American Educational Research Association Fall Research Conference Washington, DC; October 2019

Purposeful Disruption: Collaboration Accelerators Invited Panelist Discussion

United Negro College Fund Career Pathways Initiative Convening

Fort Lauderdale, FL; July 2018

TEACHING	
2023-2024	Qualitative Methods II, The University of Georgia McBee Institute of Higher Education Assistant Professor
2022-2023	Historically Black Colleges and Universities, The University of Georgia McBee Institute of Higher Education Assistant Professor
2019-2021	Public Policy and Higher Education, The University of Alabama Assistant Professor
2019	Historically Black Colleges and Universities, The University of Alabama Assistant Professor
2018-2021	The Student in Higher Education, The University of Alabama Assistant Professor
2017-2021	Perspectives in Higher Education, The University of Alabama Assistant Professor
2016	University of Michigan Profession Seminar in Higher Education Guest Lecturer
2015-2017	FDPRI Graduate Student Research Fellows, UNCF Research Supervisor
2015-2017	FDPRI Dissertation Support Group, UNCF Research Mentor
2013	Diversity and Coping in Colleges Success, University of Michigan Guest Lecturer
2010-2013	National Center for Institutional Diversity, University of Michigan Research Supervisor

2010-2011	Undergraduate Research Opportunity Program, University of Michigan Undergraduate Research Supervisor
2009	Introduction to the Dental Profession, University of Michigan Grader
2009	Ann Arbor Public Schools Substitute Teacher
2008	History and Philosophy of Higher Education Guest Lecturer
2005	State Policy in Higher Education Course, University of Michigan Graduate Student Assistant
2002	Calculus for Business Majors Course, Clark Atlanta University Adjunct Professor

ADVISING

(† Student Outside of Higher Education Discipline; ρ Graduate Student who has graduated; γ Undergraduate Student who has graduated)

University of Georgia

Major Professor

ρ Juawn Jackson

ρ Lesley Netter-Snowden

Doctoral Dissertation Committee Member

ρ Sherontae T. Maxwell

ρ Marissa Ruth Pace

ρ Lindsey Taylor

Doctoral Academic Advisees

Imani Cullen

Madeline Greenberg

Research Mentorship

Ijaz Ahmad

Imani Callan

Courtney Cullen

Ty Kunzman

†Yeonjeanne Park

†Shriya Rasale

†Lilly Kate Steiner

William Walker

University of Alabama

Doctoral Dissertation Committee Member

- ρ Kouri Allen
- ρ Tamaica Martin
- ρ† Troy J. Shine
- ρ Melinda Wallace

Master's Advisees

- ρ Lindsey Potter
- ρ Adam Roper
- ρ Alethia Russell
- ρ Kelly Seaman
- ρ Brandon Sible
- ρ Alyssa Stephens
- ρ Jennifer Thomas
- ρ Cokie Thompson
- ρ Kathryn Tune
- ρ Kat Young

Research Mentorship

- ρ Filiz Akuyz
- ρ Shanice Carter
- ρ Erica Campbell
- ρ† Sarah Chavada Davis
- ρ Amos Davison
- ρ Jessica Dykes
- ρ Kit Emslie
- ρ Tony V. Johnson
- ρ Janelle Jones
- γ† Racheal Josepher
- ρ Richard Jowers
- γ† Racheal Lilly
- ρ Shelly Melchoir
- γ† Caitlyn Powell
- ρ Patrick Reynolds
- ρ Alethia Russell
- ρ Craig Shore
- ρ Kiara Summerville
- Clemith Thomas
- ρ Akiesha Young
- γ† Mallory Whitaker

MEDIA AND PRESS

"HBCUs Face Funding Disparities, but Recent Boosts in Philanthropy Dollars" story aired on ABC News (February 22, 2022)

https://www.wxyz.com/news/hbcus-face-funding-disparities-but-recent-boosts-in-philanthropy-dollars?fbclid=IwAR1RY-M9rWP bzkQWOe2GVeX4e7MWsCheeex3T A0wQspiy Y8ZYj8pH dE

"Institutions Seek to Address Basic Needs Insecurity Among HBCU Students" published by Diverse Issues in Higher Education (January 20, 2022)

https://www.diverseeducation.com/institutions/hbcus/article/15287583/institutions-advocates-seek-to-address-basic-needs-insecurity-among-hbcu-students

"Donald Trump stated on October 22, 2020 in the final 2020 presidential debate: 'President Obama would never give them long-term funding, and I did ... I saved historically Black colleges and universities." By Politifact (October 27, 2020)

https://www.politifact.com/factchecks/2020/oct/27/donald-trump/trumps-exaggerated-claim-he-saved-hbcus-2019-fundi/?fbclid=IwAR13O 0rYuRTsdYRLy3piLDJPIrbLYDqDIvSa PPbc0MhS53UZR1hMWq XY

"Opinion: A Fact-Check List of Trump Accomplishments" published by the New York Times (September 11, 2020)

https://www.nytimes.com/2020/09/11/opinion/fact-check-trump.html

"Black Student Loan Borrowers Among the Most Likely to Regret Taking Out Loans" story aired on 60 television stations in 42 markets via Scripps National News (August 28, 2020) https://www.youtube.com/watch?v=xaAmXrBeN7M&feature=youtu.be

"OPINION: Black Students Hold Too Much Debt, and the Way Out Includes More and Better Career Counseling"

Prioritizing public support for HBCUs, predominantly black institutions and community colleges" published by The Hechington Report (February 27, 2020)

https://hechingerreport.org/opinion-a-holistic-approach-and-career-guidance-are-needed-to-address-the-black-student-debt-crisis/

"HBCUs are Trying to Spare Graduates from Crushing Student Loan Debt. It's Not Easy." published by The Washington Post (February 18, 2020)

https://www.washingtonpost.com/local/education/hbcus-are-trying-to-spare-graduates-from-crushing-student-loan-debt-its-not-easy/2020/02/18/23a9dcd4-3c68-11ea-baca-eb7ace0a3455 story.html

"Largest Gift In Howard University History Sparks Conversation About HBCU Donations" published by NPR (February 6, 2020)

 $\frac{https://www.npr.org/2020/02/06/803508837/largest-gift-in-howard-university-history-sparks-conversation-about-hbcu-donatio?fbclid=IwAR08oBNRM-uRQBBAR5iioWewj1wD_hkbO-IW20San6dWN0mMExpitEPjlFE$

"Education Trust Addresses Black Student Debt Crisis at D.C. Briefing" published by Diverse Issues in Higher Education (September 26, 2019) https://diverseeducation.com/article/155881/

"Black Student Debt is Hitting African Americans the Hardest. These Experts Have a Plan to Fix It" published by The Washington Post (September 20, 2019)

 $\underline{https://www.washingtonpost.com/local/education/student-debt-is-hitting-african-americans-the-hardest-these-experts-have-a-plan-to-fix-it/2019/09/20/5f786e48-d0fb-11e9-b29b-a528dc82154a\ story.html$

"Report Shows Lack of Diversity in Engineering" published by Inside Higher Education (December 18, 2018)

https://www.insidehighered.com/quicktakes/2018/12/18/report-shows-lack-diversity-engineering

"APLU Report Finds Minorities Lack Representation in Engineering Education" published by Higher Education Today (December 20, 2018)

https://www.higheredtoday.org/2018/12/20/aplu-report-finds-minorities-lack-representation-engineering-education/

"Report: Minorities Underrepresented in Earning Engineering Degrees" published by Diverse Issues in Higher Education (December 18, 2018) https://diverseeducation.com/article/134646/

"Study Reveals Obstacles Faced by Black Men in Doctoral Programs in Engineering" published by Journal of Blacks in Higher Education (April 16, 2018)

https://www.jbhe.com/2018/04/study-reveals-obstacles-faced-by-black-men-in-doctoral-programs-in-engineering/

"Experience of Black Doctoral Students Underscores Need to Increase Diversity in STEM Field" published by UNews at The University of Utah (April 11, 2018).

 $\underline{https://unews.utah.edu/experience-of-black-doctoral-students-underscores-need-to-increase-diversity-instem-fields/}$

"Study Explores Challenges to Black Graduate Engineering Students," published by Diverse Issues in Higher Education (April 10, 2018) https://diverseeducation.com/article/114164/

"ISU Researchers [sic]: Racism is Rampant in Higher Education," story aired and published on KCCI.com (Des Moines, IA news station) (June 8, 2018) https://www.kcci.com/article/isu-researchers-racism-is-rampant-in-higher-education/21240049

"HBCU Student Debt" story aired on Comcast Newsmakers (February 16, 2017) https://comcastnewsmakers.com/videos/2017/02/15/hbcu-student-debt-part-1/https://comcastnewsmakers.com/videos/2017/02/15/hbcu-student-debt-part-2/

"For Many Blacks, College Degrees Come With Outsized Debt" published by Nerdwallet (February 8, 2017) https://www.nerdwallet.com/blog/loans/student-loans/why-student-loans-skyrocketing-for-black-students/

"The Burden Of Debt At HBCUs" story aired and published on KERA FM (Jan 3, 2017). http://think.kera.org/2017/01/03/the-burden-of-debt-at-hbcus/

"United Negro College Fund: HBCU students are shouldering heavy debt burdens" published by The Washington Post and Demos (December, 15, 2016) https://www.washingtonpost.com/news/grade-point/wp/2016/12/15/united-negro-college-fund-hbcu-students-are-shouldering-heavy-debt-burdens/?noredirect=on&utm_term=.5d22a58959d5

"Report: Students at HBCUs Have Burdensome Debt" published by Inside Higher Education (December 15, 2016)

https://www.insidehighered.com/quicktakes/2016/12/15/report-students-hbcus-have-burdensome-debt

"HBCU Students Face Greater Student Loan Burden Than Other Students" published by National Association of Student Financial Aid Administrators (December 15, 2016) https://www.nasfaa.org/news-

item/10693/HBCU Students Face Greater Student Loan Burden Than Other Students

"UNCF Releases Report Examining the Student Loan Burden on HBCU Students" published by Blavity.com (December 15, 2016).

https://blavity.com/uncf-report-hbcu-students-are-burdened-with-more-student-loan-debt

"Report Finds HBCU Students Overly Burdened by Loans" published by Diverse Issues in Education (December 14, 2016).

https://diverseeducation.com/article/90274/

"HBCU Students Carry More Debt" published by Atlanta Journal Constitution (December 14, 2016) https://www.ajc.com/news/education/hbcu-students-carry-more-debt/YWi9ZAurUcCCcDwftlAH5M/

SELECT SERVICE

<u>Field</u>	
2023	Asa G. Hilliard III and Barbara A. Sizemore Research Course on African Americans and Education Presenter
2022	Alfred P. Sloan Foundation Proposal Reviewer
2020	Journal of Negro Education Guest Editor- Special Issue
2020	Journal of Women and Minorities in Science and Engineering Reviewer
2020	Review of Higher Education Reviewer
2019-present	American Educational Research Journal Reviewer
2019-present	Institute for Research on Race and Public Policy Research Affiliate
2019	United Negro College Fund Career Pathways Initiative Convening Session Discussant (Atlanta, GA)
2019	National Science Foundation Invited Presentation (research insights to shape future funding priorities)

2018-present	Journal of Higher Education Reviewer
2018-present	Journal of Studies in Graduate and Postdoctoral Education Reviewer
2018-2022	United Negro College Fund Frederick D. Patterson Research Institute Senior Research Fellow
2018	Shelton State Community College External Grants Consultation
2018	Underserved Populations at HBCUs: The Pathway Equity, Diversity and Inclusion Reviewer
2018	United Negro College Fund Career Pathways Initiative Convening Session Discussant (Fort Lauderdale, FL)
2017	National Science Foundation (NSF) Historically Black Colleges and Universities Undergraduate Program (HBCU-UP) Implementation Projects Grant Review Panelist
2015-present	The Journal of Negro Education Editorial/Advisory Board Section Editor- Book/Media Review
2015	ETS Summer Undergraduate Research Experience Mentor Educational Testing Service
2014-2015	The Journal of Negro Education Editorial/Advisory Board Young Scholars Editorial Board Member
<u>Association</u>	
2022	American Educational Research Association Division J Graduate Student Networking Event Panelist
2022- 2023	Association for the Study of Higher Education Graduate Student Policy Seminar Past Chair/Co-Chair
2021-2022	American Educational Research Association 2022 Division J Program Committee Co-Chair Section 5: Policy, Finance, and Economics
2021- 2022	Association for the Study of Higher Education Graduate Student Policy Seminar

Chair

2020-present	Association for the Study of Higher Education Professional Development Committee
2020	Association for the Study of Higher Education Conference Proposal Reviewer
2019	American Educational Research Association Annual Meeting Proposal Reviewer
2019	World Educational Research Association Session Chair
2017	Association for the Study of Higher Education (ASHE) Counsel on Ethnic Participation Mentor Protégé Program (CEP MPP) Marketing and Social Media Campaign Manager
2016	Association for the Study of Higher Education (ASHE) Counsel on Ethnic Participation Mentor Protégé Program (CEP MPP) Invited Speaker for Roundtable Session
2016	Association for the Study of Higher Education (ASHE) Counsel on Ethnic Participation Mentor Protégé Program (CEP MPP) Mentor
2016	Association for the Study of Higher Education National Conference Session Chair: Assets-Based Orientations of Capital Formation and Utilization amongst Black Students in College
2014	Association for the Study of Higher Education (ASHE) Counsel on Ethnic Participation Mentor Protégé Program (CEP MPP) Mentor
2014	American Educational Research Association (AERA) Achieving Professional Competence: Beyond Knowledge and Skill Session Chair
2012-2013	Association for the Study of Higher Education (ASHE) Graduate Student Network Coffee and Conversation: Online Forum for Higher Education Issues Creator and Moderator
<u>University</u>	
2022	Justice Education Policy Program, University of Georgia Graduate Student Mentor
2019-2020	University of Alabama Black Faculty and Staff Association

	Faculty and Staff Writing Group Coordinator
2019	University of Alabama Undergraduate Research Mentor
2019	University of Alabama Black Scholars Honors Day Program Participant (Awards Presentations)
2019	University of Alabama Black Faculty and Staff Association Professional Development Day Planning Committee Member
2019	University of Alabama Black Faculty and Staff Association Faculty and Staff Professional Development Day Presenter
College/Institute	
2023	University of Georgia Louise McBee Institute of Higher Education Faculty Search Committee
2023	University of Georgia Louise McBee Institute of Higher Education Graduate Studies Committee
2022-present	University of Georgia Louise McBee Institute of Higher Education Outreach and Engagement Committee
2022	HESS Meet and Greet, University of Georgia Louise McBee Institute of Higher Education Presenter
2022	HESS Publication Process Overview University of Georgia Louise McBee Institute of Higher Education Presenter
2022	HBCU Course Community Building Activity: Movie Night (on-campus) University of Georgia Louise McBee Institute of Higher Education Presenter
2022	HBCU Course Community Building Activity: Movie Night (off-campus) University of Georgia Louise McBee Institute of Higher Education Presenter
2020-2021	University of Alabama College of Education The Faculty Retention and Recruitment Committee
<u>Department</u>	
2020	University of Alabama Education Leadership Policy and Technology Studies (ELPTS) Faculty Candidate Selection Process

2018 University of Alabama College of Education Department of Special Education

and Multiple Abilities

Postdoctoral Research Fellow Search Committee

<u>Program</u>

2021 University of Alabama College of Education ELPTS Higher Education

Program

Guest Panelist, Higher Education Administration Campus Visit Day

2019 University of Alabama College of Education ELPTS Higher Education

Program

Program Assessment Chair

2019 University of Alabama College of Education ELPTS Higher Education

Program

HEP Graduate Student Orientation Faculty Panel

2019 University of Alabama College of Education ELPTS Higher Education

Program

Program Assessment Chair

2019 University of Alabama College of Education ELPTS Higher Education

Program

Qualifying Exam Proctor

2019 University of Alabama College of Education ELPTS Higher Education

Program

Program Social Media Chair

2018-2019 University of Alabama College of Education ELPTS Higher Education

Program

Higher Education Program Marketing & Branding Committee

2018 University of Alabama College of Education ELPTS Higher Education

Program

Program Student Summer Course Feasibility Study

2018 University of Alabama College of Education ELPTS Higher Education

Program

Qualifying Exam Proctor

2018 University of Alabama College of Education ELPTS Higher Education

Program

Guest Panelist, Higher Education Administration Campus Visit Day

2017 University of Alabama College of Education ELPTS Higher Education

Program

PROFESSIONAL MEMBERSHIPS & HONORARY AFFILIATIONS

- Association for the Study of Higher Education
- American Educational Research Association
- Association for the Study of African American Life and History
- Student Government Association Graduate President, Clark Atlanta University
- Former Board of Trustees Student Representative, Clark Atlanta University
- Former University Senate Student Representative, Clark Atlanta University
- United Negro College Fund Frederick D. Patterson Research Institute, Senior Research Fellow
- Institute for Research on Race and Public Policy, Faculty Affiliate
- VP of Institutional Advancement Search Committee, Clark Atlanta University
- World Educational Research Association (WERA)
- Mid-South Education Research Association (MSERA)