

Nathan Napoleon Alexander

Department of Mathematics
Division of Science and Mathematics
Morehouse College
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Education

- Ph.D. **Columbia University**, May 2015
Program in Mathematics and Education, Graduate School of Arts and Sciences
Exam fields: Quantitative methods, Mathematics education, Real Analysis, and Algebras
Thesis Committee: Dr. Erica N. Walker (doctoral advisor), Dr. Felicia M. Mensah,
Dr. Alexander Karp, Dr. Nicholas Wasserman, Dr. Robert Fullilove
- M.Phil. **Columbia University**, May 2014
Program in Mathematics and Education, Graduate School of Arts and Sciences
Language citations: Spanish (speaking, reading, writing), German (reading, writing)
- M.S. **Columbia University**, May 2011
Program in Mathematics, Teachers College Graduate School of Education
- M.A. **New York University**, September 2008
Program in Teaching Mathematics, Steinhardt School of Culture, Education, & Human Development
- B.A. **University of North Carolina at Chapel Hill**, May 2007
Mathematics, with a double major in Sociology

Areas of Specialization

Mathematics education, Statistical and mathematical modeling, Mathematical sociology, Social networks and graphs

Professional Background

- 2017 - **Morehouse College**, James King, Jr. Visiting Professor of Mathematics Teaching
Department of Mathematics, Division of Science and Mathematics
Faculty Affiliate: James King, Jr. Institute for Student and Faculty Engagement
Faculty Affiliate: SMASH Morehouse (Summer Math & Science Honors Camp)
- 2015 - 2017 **University of San Francisco**, Assistant Professor of Mathematics and Statistics Education
Department of Teacher Education, School of Education
Faculty Affiliate: Department of Mathematics, College of Arts and Sciences
Faculty Affiliate: Undergraduate Teacher Education Center, College of Arts and Sciences
- 2013 - 2015 **University of California at Berkeley**, Visiting Scholar & Graduate Student Instructor
2014-15: Department of Mathematics, College of Letters and Sciences
2013-14: Graduate School of Education, Social and Cultural Studies in Education
- 2010 - 2013 **Columbia University**, Graduate Research Fellow and Teaching Assistant
2010-13: Program in Mathematics, Teachers College Graduate School of Education
2010-11: Zankel Fellowship, Office of School and Community Partnerships, Teachers College

- 2010 - 2013 **Sponsors for Educational Opportunity**, Mathematics Teacher
New York City (2010-2013) and San Francisco (2013)
- 2010 - 2012 **City University of New York**, Adjunct Lecturer
Mathematics and Statistics, Borough of Manhattan Community College (BMCC)
- 2010 **Eugene Lang College, The New School**, Visiting Faculty
Applied Mathematics and Design, Engineering and Architecture Programs
- 2008 - 2010 **Harlem Children's Zone**, Mathematics Teacher and College Coordinator
Media and Arts Community Education Program, TRUCE
- 2007 - 2008 **New York University**, Research Assistant
Metropolitan Center for Urban Education, Steinhardt Graduate School of Education
- 2006 - 2007 **University of North Carolina at Chapel Hill**, Tutor and Teaching Assistant
Mathematics, UNC Summer Bridge Program
- 2004 - 2006 **University of North Carolina at Chapel Hill**, Grader and Math Help Center Tutor
Math Help Center, Department of Mathematics

Affiliations

- 2017 - *James King, Jr. Institute for Student and Faculty Engagement* (Director: Dr. Ulrica Wilson)
Associate Director, Communicating TEAMS Initiative
- 2015 - 2017 *Critical Education in Science, Mathematics, & Technology Group* (PI: Nathan Alexander)
Founding Faculty, University of San Francisco, School of Education
- 2013 - 2014 *STRATUS Graduate Research Group* (PI: Dr. Na'ilah Nasir)
Visiting Scholar, University of California at Berkeley, Graduate School of Education
- 2010 - 2013 *Institute for Urban and Minority Education (IUME)* (Director: Dr. Ernest Morrell)
Graduate Student, Teachers College, Columbia University
- 2010 *Division of Talent and Labor, Innovation Zone* (Chancellor: Mr. Joel Klein)
Summer Associate, New York City Department of Education

Scholarship (*- indicates graduate students, **- indicates undergraduate/HS students)

Books and Book Chapters

- Alexander, N. N., Kokka, K. (Eds.) (in preparation). *Pedagogies of Justice in Mathematics, Science, and Technology*. New York: Teachers College Press.
- Alexander, N. N. (under review). Daija's Awakening: The New Space Race and Ms. Tamika's Math Class. In J. Davis & C. Jett (Eds.), *Critical Race Theory in Mathematics Education*, New York: Routledge.

Journal Issues (Editor and Co-Editor)

- Alexander, N. N. (Ed.) (2012). Special Issue: Equity in Mathematics Education. *Journal of Mathematics Education at Teachers College*, 4(2).
- Bullock, E., Alexander, N. N., Gholson, M. (Eds.) (2012). Proceedings of the Benjamin Banneker Association of Mathematics Educators Meetings. *Journal of Urban Mathematics Education*, 5(2).

Research Articles

1. Alexander, N. N., Teymuroglu, Z., & Yerger, C. R. (accepted). Critical Conversations on Social Justice in Undergraduate Mathematics. *PRIMUS*.
2. Leong, K. E., & Alexander, N. N. (2014). College Students' Attitude and Mathematics Achievement using Web-based Homework. *Eurasia Journal of Math, Science, and Technology Education*, 10(6), 609-615.

Monographs & Encyclopedia Entries

1. Alexander, N. N. (in press). Fermat's Last Theorem. *Research Starters*: Vol. 8. Ipswich, MA: EBSCO.
2. Alexander, N. N. (in press). Abacus. *Research Starters*: Vol. 8. Ipswich, MA: EBSCO.
3. Alexander, N. N. (2014). Real Analysis. In J. Geoffrey Golson (Ed.), *Research Starters*: Vol. 2. Ipswich, MA: EBSCO.
4. Alexander, N. N. (2013). Gender Inequality: Mathematics. In J. Ainsworth and J. Geoffrey Golson (Eds.), *Sociology of Education: An A-to-Z Guide* (p. 308-309). Thousand Oaks, CA: SAGE.

Book Reviews

1. Alexander, N. N. (2016). [Review of Identity Work in the Classroom: Successful Learning in Urban Schools by Cheryl Jones-Walker]. *Multicultural Perspectives*, 18(4), 237-239.
2. Alexander, N. N. (2014). [Review of Inequality, Poverty, and Education: A Political Economy of School Exclusion by F. Ashurst & C. Venn]. *Teachers College Record*, online.

Proceedings

1. Adiredja, A., Alexander, N. N., & Andrews-Larson, C. (2016). Conceptualizing Equity in Undergraduate Mathematics Education: Lessons from K-12. In T. Fukawa-Connelly, G. Karakok, K. Keene, and M. Zandieh (Eds.), *Proceedings of the 18th Annual Conference on Research in Undergraduate Mathematics Education*, 18(1), 60-73. Pittsburgh, PA.
2. Gholson, M., Bullock, E., & Alexander, N. N. (2012). On the Brilliance of Black Children in Mathematics. *Journal of Urban Mathematics Education*, 5(2), pp. 1-8.

Dissertation

1. Alexander, N. N. (2015). Statistical Models of Identity and Self-Efficacy in Mathematics on a National Sample of Black Adolescents from HSLS:09, Columbia University, UMI Number: 3701935.

Educational Materials and Other Publications

1. **Mason, K., **Anderson, K., **Freeman, J., Alexander, N. N. (2018). Modeling Dissimilarity: Gerrymandering the Black out of the White. Atlanta, GA: Summer Math & Science Honors (SMASH) Academy.
2. **Rios, M., **Murphy, A., **Whitaker, A., **Darrisaw, S., & Alexander, N. N. (2018). Responding to the Needs of Populations Experiencing Homelessness in Atlanta with Sustainable Housing and Targeted Resources: A Cost-Based Analysis. Atlanta, GA: Summer Math & Science Honors (SMASH) Academy .
3. Alexander, N. N., **Bates, K. (2016). A Simplified Mathematical Model of Community Composition. Critical Education Content and Identity Laboratory. San Francisco, CA: USF, Critical Education in Science, Mathematics and Technology Group (CESMT).

- Alexander, N. N. (2013). Choosing a College: Mathematical Modeling using Matrices. In H. Gould, D. Murray, and A. Sanfratello (Eds.), *Mathematical Modeling Handbook* (p. 34-48). Bedford, MA: Consortium for Mathematics & its Applications (CoMAP).
- Alexander, N. N., Hunter, I., Russ, A. (Eds.) (2009). *Silk Road Connect: Passion Driven Learning, a guide for teachers*. Providence, RI: The Silk Road Project.

Research in Progress

- Teymuroglu, Z., Alexander, N. N. (in preparation). Student Perspectives on Learning Mathematics for Social Justice in Predominately White Institutions (PWIs).
- Alexander, N. N., Lamar, T. (in preparation). Assessing the Effects of a Computer-based Mathematics Laboratory on First-Year Student Success in College Algebra.
- Alexander, N. N. (in preparation). Academic Dis/identification in Mathematics.

Presentations (Invited and Conference citations)

- “Mathematical Models in the Sociological Imagination.” Faculty and student talks as the Thomas P. Johnson Distinguished Visiting Professor at Rollins College, FL, Department of Mathematics, April 23, 2018.
- Zavala, M., & Alexander, N. N. “Racial-Ethnic Identity in Mathematics: Methodological Developments in Surveying High School Girls of Color.” Paper in session at the American Educational Research Association Annual Meeting, New York, NY, April 14, 2018.
- “Modeling and Equity in Mathematics: Developing Mathematical Models in the Real-World Context,” Invited Talk at the University of West Georgia, GA, Department of Mathematics, March 1, 2018.
- “Advancing Social Justice Pedagogies in Mathematics, Science, and Technology.” Workshop at the 2018 Creating Balance in an Unjust World Conference, San Francisco, CA, January 2018.
- “The Mathematics Teacher Project: Advancing Justice and Modeling in Mathematics.” Workshop at the Inaugural Black Male Educators Convening, Philadelphia, PA, October 14, 2017.
- “Exponentiation and Exponential Functions over \mathbb{R} and \mathbb{Z}^+ ,” Talk at Morehouse College, Department of Mathematics, Division of Science and Mathematics, June 7, 2017.
- “Dynamic Models of Collective Action: Critical Perspectives on the Mathematics of Social Movements,” San Francisco State University, CA. Colloquium Speaker, Mathematics Department, May 8, 2017.
- Panelist. Increasing, Supporting, and Retaining Black Teachers Panel. California Association of African American Superintendents & Administrators (CAAASA). San Diego, CA. March 9, 2017.
- “Equitable Pedagogical Approaches in Collegiate Science and Mathematics,” Santiago Canyon College Professional Development Week, Orange, CA. February 7, 2017.
- Panelist. Education as Activism: The Role of Educators, Counselors, and Scholars. 5th Annual Symposium on Engaged Scholarship, San Francisco, CA. February 3, 2017.
- “The Calculus of Black Brilliance,” Black History Month Lecture: Crises in Black Education - Strides to Impact our Learning Experience. East Bay Municipal District, Oakland, CA. February 1, 2017.
- “Historical Perspectives and Tough Conversations on Social Justice in Mathematics,” Paper accepted to the 2017 Joint Mathematics Meetings. Atlanta, GA. January 4, 2017.
- “Inclusive Pedagogies in STEM+C,” University of Richmond, VA. November 14-15, 2016.
- “Modeling Equity in Mathematics: Identities at Practice in Teaching and Learning,” California State University, Fresno, CA. November 4-5, 2016.

15. "Engaging Undergraduate Mathematics and Statistics for Social Justice," Associated Colleges of the South (ACS), Rollins College, Orlando, FL. May 20-21, 2016.
16. "Modeling Equity in Mathematics," Northern California Mathematics Project, California State University, Stanislaus, CA. April 22-23, 2016.
17. Research Panelist. "The Calculus of Black Brilliance: Violence and Conceptions of Student Success in Mathematics," California Association of African American Superintendents and Administrators (CAAASA). Sacramento, CA. March 4, 2016.
18. Alexander, N. N., & Seiki, S. "Envisioning Critical Science, Mathematics, and Technology Education: An Introduction," Breakout session presented at the 4th Symposium on Engaged Scholarship, University of San Francisco, CA. January 5, 2016.
19. "Mapping Terrains from 'Issues of Culture' to 'Praxes of Power' in Mathematics Education," Symposium to Honor the Legacy of Dr. Carol Elaine Malloy, Chapel Hill, NC. October 10, 2015.
20. "Mathematics in 1-, 2- and 3-D!" Upward Bound Program Symposium, San Francisco, CA. October 3, 2015.
21. Adiredja, A., Alexander, N. N., & Larson, C. "Conceptualizing Equity in Undergraduate Mathematics Education: Lessons from K-12 Research," Paper presented at the 18th Research in Undergraduate Mathematics Education, Pittsburg, PA. February 15, 2015.
22. "The Intersection of Race, Identity, & Self-efficacy in Mathematics," California State University at Stanislaus, Department of Mathematics, Turlock, CA. November 21-22, 2014.
23. "Mind the Gap? Research, Policy, and Praxis in Mathematics Education," Teachers College, Columbia University, Institute for Minority and Urban Education. New York. December 5, 2013.
24. Alexander, N. N. "Insulating The Pipeline: Understanding the Early Implications of Mathematics Course Taking on College Access, STEM Involvement and Future Earnings," Paper presented at the Eastern Economic Association, New York, NY. May, 2013.
25. Alexander, N. N. "Leveraging Urban Elementary School Students' Academic Communities in Mathematics," In Symposium: Preparing Teachers of African American Children. Paper presented at the American Educational Research Association Annual Meeting, San Francisco, CA. April, 2013.
26. Panelist. Data Analysis for Education Policy and Practice. Lecture at Education Pioneers Fellowship Cohort Meeting entitled "Enhancing Your Impact." Children's Aid Society, New York, NY. June, 2012.
27. Alexander, N. N., Leong, K. E. "Exploring the Effectiveness of Web-Based Homework in Developmental Mathematics Courses," Paper presented at the National Council of Teachers of Mathematics Meeting, Philadelphia, PA. April, 2012.
28. Alexander, N. N., Walker, E. N. "Urban Elementary School Students' Academic Communities in Mathematics," Paper presented at the American Educational Research Association Meeting, Vancouver, British Columbia, Canada. April, 2012.
29. Alexander, N. N. "What Happens At Home? Understanding the Family's Role in Elementary School Students' Mathematical Understanding," Paper presented at the North Carolina Council of Teachers of Mathematics Meeting, Greensboro, NC. October, 2011.
30. Leong, K. E., Alexander, N. N. "From Test Paper to Chalk Board: Analyzing Developmental Algebra Responses," Paper presented at the National Council of Teachers of Mathematics Regional Meeting, Atlantic City, NJ. October, 2011.
31. Walker, E. N., Alexander, N. N. "'After-School' vs. 'Regular School' Math: Urban Male Students' Peer Networks and their Effects on Mathematics Outcomes," Paper presented at the American Educational Research Association, New Orleans, LA. April, 2011.

32. “Elementary School Students’ Academic Communities in Mathematics,” Columbia University, Teachers College, New York, NY. November, 2010.
33. “Radical Equations, Radical Comics: Connecting Social Justice Initiatives, Cartooning, and Mathematics,” Harlem Children’s Zone, New York, NY. August, 2010.
34. “Case Studies of Low- and High-Achieving Black and Latino Males in Mathematics,” Columbia University, Teachers College, New York, NY. April, 2010.
35. Panelist. Inspiring Passion Driven Learning. Harvard University Graduate School of Education, with Yo-Yo Ma, Isabelle Hunter, Andy Russ, Naomi Zeichner, and Quinn Alston, Cambridge, MA. September, 2009.
36. “A Comparative Analysis of Education Attainment and the Effects of Racial Stratification in the U.S. since 1972,” Research Seminar, University of North Carolina at Chapel Hill, Chapel Hill, NC. April, 2007.

Grants and Sponsored Research

Spencer Foundation. Advancing the Social Justice Praxis in Undergraduate Mathematics: A Research Symposium. Co-Principal Investigator with Dr. Viveka Borum (Co-PI) and Dr. Zeynep Teymuroglu. Research Conference Grants Program. (In preparation).

National Science Foundation. Developing Effective Communication Skills in Early College Mathematics: The Undergraduate Teaching Assistant Partnership (U-TAP). (In preparation).

California State Board of Education. The Development and Implementation of 4-Year Integrated Programs Leading to the Baccalaureate Degree and Teaching Credential. Co-Principal Investigator (Co-PI) with Dr. Michael Rozendal (PI), Mary Labiak-Coen, and Melissa Hope, Undergraduate Teacher Education Center. Commission on Teacher Credentialing, 2017-2018. (Funded; \$248,899).

SF Jesuit Foundation. Mathematics Education in the Belizean Context. Principal Investigator (PI). Faculty Immersion Grant, 2017-2018. (Funded; \$2,500).

U.S. Department of Education. Education Talent Search (ETS) and Upward Bound Math and Science (UBMS) Programs. Grant Program Evaluator with Dr. Brad Washington and Saleem Shakir-Gilmore (Principal Investigator), 2016-2021. (Funded; \$1,200,000).

University of San Francisco. Critical Education Content and Identity Lab: An Ed-Design Space for Learning and Identity Development in Science and Mathematics. Principal Investigator (PI), Joint Committee on Faculty Development, 2015-2016 (Funded; \$3,000).

Columbia University. Diversity in Research and Practice (DiRP) Education Conference (2nd annual). Co-Principal Investigator (Co-PI) with Crystal Francis and Matthew Morris (Co-PIs). Columbia President and Provost’s Grant, 2011-2012 (Funded; \$6,000).

Columbia University. Urban Males’ Peer Networks in Mathematics. Principal Investigator (PI). Betty Fairfax Professional Development Grant, 2011-2012 (Funded; \$500).

Columbia University. Elementary Students’ Academic Communities in Mathematics. Co-Principal Investigator (Co-PI) with Dr. Erica Walker (Co-PI). Dean’s Grant for Student and Faculty Collaborative Research, 2010-2011 (Funded; \$2,000).

Teaching Experience

Morehouse College

Instructor of Record: College Algebra 2 (Undergraduate)
Instructor of Record: College Algebra 1 with Lab (Undergraduate)
Instructor of Record: Communicating Mathematics Seminar (Undergraduate)
Instructor of Record: Basic Mathematics (Undergraduate)

University of San Francisco

Instructor of Record: Advanced Statistics (Doctoral)
Instructor of Record: Applied Educational Statistics (Doctoral)
Instructor of Record: Theories in Learning and Teaching (Masters)
Instructor of Record: Elementary Science & Math (Masters)
Instructor of Record: Secondary Curriculum & Instruction in Math I (Masters)
Instructor of Record: Secondary Curriculum & Instruction in Math II (Masters)
Instructor of Record: Teaching for Diversity & Social Justice (Masters)
Instructor of Record: Introduction to Statistics (Undergraduate)

UC Berkeley

Instructor of Record: Equity in STEM Education (Undergraduate)
Instructor of Record: Single Variable Calculus (Undergraduate)

Columbia University

Teaching Assistant: Mathematics and Multicultural Education (Masters/Doctoral)
Teaching Assistant: Mathematics and Popular Culture (Masters/Doctoral)

City University of New York

Instructor of Record: Number Theory (Undergraduate)
Instructor of Record: Introduction to Statistics (Undergraduate)
Instructor of Record: Algebra & Trigonometry (Undergraduate)
Instructor of Record: Elementary Algebra (Undergraduate)

The New School

Instructor of Record: Single Variable Calculus (Undergraduate)

Secondary

Instructor or Record: Pre-Calculus
Instructor of Record: Algebra II
Instructor of Record: Geometry
Instructor of Record: Algebra I
Instructor of Record: Youth Participatory Action Research
Instructor of Record: Topics in Mathematics and Social Justice
Instructor of Record: Ethnomathematics

University of North Carolina

Grader: Discrete Mathematics
Grader: Multivariable Calculus
Teaching Assistant: Single Variable Calculus II
Teaching Assistant: Single Variable Calculus I
Teaching Assistant: Pre-Calculus

Student Advising and Research

Darkese Wicker, B.A. candidate, English, Morehouse College, Research Assistant, 2018 -
Terrance Wynn, B.S. candidate, Physics, Morehouse College, Research Assistant, 2018
Joshua Sparks, B.S. candidate, Mathematics, Morehouse College, Lead Teaching Assistant, 2018 -
Christian McRoberts, B.S., Mathematics, Morehouse College, Lead Teaching Assistant, 2017- 2018
Winston Odum, B.S., Chemistry, Morehouse College, Lead Teaching Assistant, 2017 - 2018
Phillipa Hullett, M.A. student, University of Belize, Research mentor, 2016
Daniella Ocampo, M.A., University of San Francisco, Graduate assistant, 2016 - 2017
Terrell Morton, Ph.D., University of North Carolina, Dissertation committee member, 2016 - 2017
Monika Hudson, Ed.D., University of San Francisco, Dissertation committee member, 2015 - 2017

Denae Nunberg, Ed.D., University of San Francisco, Dissertation committee member, 2015 - 2017
Jordan Brown, M.A., University of San Francisco, Graduate assistant, 2015 - 2017
Jacob Williams, Oakland School for the Arts, Mentor: modeling (cancer research), 2015 - 2017
Phong Nguyen, John O. Connell High School, Mentor: modeling (data systems), 2015 - 2016

Professional Development and Training Institutes (as a faculty member)

Facilitator. Reimagining Education Summer Institute (RESI) at Teachers College: “Mathematical Modeling as a Tool for Critical Engagement Pedagogies,” New York, NY. July 2018.

Fund Recipient. SIAM Annual Meeting - Workshop on Celebrating Diversity. Portland, OR. July 2018.

Facilitator. AAAS/Noyce STEM Teacher Summit. Washington, DC. July 2018.

Invited Participant. UT-Austin Dana Center Equity Platform Convening. Austin, TX. June 2018.

Participant. Inaugural Data for Black Lives Conference. MIT Media Lab, Cambridge, MA. November 2017.

Facilitator. The Mathematics Teacher Project: Research on Recruiting, Retaining, and Supporting Black Men who Teach Mathematics. Convening of Black Male Educators, Philadelphia, PA. October 2017.

Facilitator. AAAS/Noyce STEM Teacher Summit Small Group Discussion Series: Stimulating Research and Innovation in STEM Teacher Education. Washington, DC. July 2017.

Facilitator. Modeling and Equity in Mathematics. California Mathematics Project, Turlock, CA. June 2017.

Facilitator. Equity in Science and Mathematics. Santiago Canyon Community College, CA. November 2016.

Facilitator. Mathematical Modeling for Equity. California Mathematics Project, Fresno, CA. November 2016.

Facilitator. AAAS/Noyce STEM Teacher Summit: Research in Mathematics Teacher Education. Washington, DC. July 2016.

Facilitator. Association of Southern Colleges and Schools’ Summer Professional Development Session. Topic: Mathematics and Statistics for Social Justice. Winter Park, FL. May 2016.

Volunteer. Mathematical Sciences Research Institute (MSRI): Observing, Evaluating and Improving Mathematics Teaching from the Early Grades through the University. Berkeley, CA. February 2016.

Facilitator. Equity and Social Justice in Mathematics. California Mathematics Project, Turlock, CA. May 2015.

International Study and Projects

Dangriga Town, Belize. Faculty (Mathematics), Project Learn Belize, 2016 - 2017.

Moscow and St. Petersburg, Russia. Visiting Graduate Student: Advanced Teaching of Secondary Mathematics, with Dr. Alexander Karp, Lyceums Nos. 36 & 208, fall 2011.

Singapore, Singapore. Exchange Scholar (Study Abroad): Sociology and Southeast Asian Studies, College of Arts and Social Sciences, National University of Singapore, Singapore, SG, spring 2005.

Honors, Fellowships, & Awards

Thomas P. Johnson Distinguished Visiting Scholar (Mathematics), Rollins College, 2018

Who’s Who in Curriculum and Education, Academic Keys, 2017

Equity Lecture, Central California Mathematics Project, 2016

President's Graduation Speech Citation, Teachers College, Columbia University, 2015

Finalist, University of California President's Postdoctoral Fellowship, 2014

Graduate Student Achievement Award, Teachers College, Columbia University, 2013

Fellow, Institute on Statistical Analysis, American Education Research Association, 2012

Excellence in Student Leadership Award, Teachers College, Columbia University, 2012

Fellow, Division C Graduate Student Institute, American Education Research Association, 2011

Young Scholar Award, Benjamin Banneker Association of Mathematics Educators, 2010

Graduate School Fellow (New York City Cohort), Education Pioneers, 2010

Minority Scholarship, Teachers College, Columbia University, 2010-13

Arthur Zankel Urban Fellowship, Teachers College, Columbia University, 2009-10

Silk Road Connect Fellow, The Silk Road Project, 2009-10

Partnership Scholar for Mathematics Teaching, New York University, 2007-08

Carol and Milton Petrie Fellow, New York University, 2007-08

Graduation Speaker, Mathematics Department, University of North Carolina, 2007

Senior Marshal, University of North Carolina at Chapel Hill, 2006-07

Homecoming King, University of North Carolina at Chapel Hill, 2006-07

Asia Exchange Scholar, National University of Singapore, 2004-05

Dean's List, University of North Carolina at Chapel Hill, 2004

Rotary Scholar, Union County Rotary Club, 2003-04

McDonalds Scholar, Ronald McDonalds House Charities, 2003-04

Coca-Cola Scholar, Coca-Cola Scholars Foundation, 2003-07

Pogue Scholar, University of North Carolina at Chapel Hill, 2003-07

Professional Organizations, Service, & Consultation

Organizations and Professional Memberships

National Association of Mathematics (NAM), 2018 -
 Member, Archival Projects Committee, 2018.

American Educational Research Association. Member, 2011 -
 Member, Critical Educators for Social Justice (CESJ) Special Interest Group, 2013 -
 Member, Division C: Learning and Instruction, 2011-13
 Member, Division G: Social Contexts of Education, 2011-15
 - Technology Co-Chair, Graduate Student Executive Committee, 2012-13
 - Member, Graduate Student Executive Committee, 2011-13

Benjamin Banneker Association of Mathematics Educators. Member, 2012-15

National Council of Teachers of Mathematics. Member, 2010-12

People's Education Movement, Bay Area. Member, 2015-17

Phi Beta Sigma Fraternity, Incorporated. Member, 2006 -

Mentor, Morehouse Sigmas (Xi Chapter, GA), 2017-18

Mentor, Bay Area Sigma Beta Club (Alpha Nu Sigma Chapter, CA), 2015-16

Co-Chair, Alumni Centennial Committee (Xi Gamma Chapter, NC), 2013-14

Education Committee (Kappa Beta Sigma Chapter, NY), 2008-09

Vice President and Chair of Education Programs (Xi Gamma Chapter, NC), 2006-07

Professional Service

Research and Advisory Panels

Coca-Cola Scholars Foundation Alumni Interview Board, 2018

American Association for the Advancement of Science (AAAS)

Noyce STEM Discussion Groups, 2017, 2018

Noyce STEM Working Meetings, 2017

AAAS/Noyce STEM Working Group, 2016

National Science Foundation (NSF) Proposal Reviewer, 2016, 2017

Critical Educators for Social Justice (CESJ) Dissertation Award Committee, 2017

Institutional Delegate, California Council on Teacher Education, 2015-16

Board Memberships

African Civil Rights Network (formerly AHRN), Oakland and Los Angeles, CA, 2015 -

Censtable Financial Literacy Youth Program, New York, NY, 2010-13

MOVE, Inc. Youth Mentoring Program, New York, NY, 2010-12

Referee (journals and conferences)

Equity and Excellence in Education, 2016, 2017

International Journal of Education for Social Justice, 2016

International Journal of Science and Mathematics Education, 2012, 2016

Journal of Mathematics Education at Teachers College, 2012

Journal of Negro Education, 2012, 2016, 2017

Journal for Research in Mathematics Education, 2013

Journal of Urban Mathematics Education, 2012

School Science and Mathematics, 2014, 2016

SAGE Open, 2016, 2017

The Mathematics Enthusiast, 2017

Urban Education, 2015

Reviewer, American Educational Studies Association Annual Conference, 2018

Reviewer, American Education Research Association Annual Conference, 2017-18

Section Head and Reviewer, Social Equity Leadership Conference, 2015-16

Reviewer, American Education Research Association Annual Conference, 2010-15

Reviewer, Diversity in Research and Practice Conference (DiRP), 2010-12

University Service

Morehouse College

Department: Mathematics

Volunteer, *Mathematics Awards Day*, 2018

Volunteer, *6th Annual Morehouse Mathematics Competitions*, 2017

Division: Science and Mathematics

Associate Director, *Communicating by Thinking Effectively in and About Mathematics*, 2017 -

University of San Francisco

Department: Teacher Education

Faculty, USF Branch Campus (San Jose, CA), spring 2017

Lead, TED All-Faculty Meeting Planning Committee, 2016-17

Course Leader, Curriculum and Instruction: Math or Science II, 2016-17

Course Leader, Curriculum and Instruction: Math or Science I, 2015-17

Member, Internship Task Force, 2016-17

Member, Program Revisions Task Force, 2016-17

Member, TED All-Faculty Planning Meeting Task Force, 2015-16

Member, Teacher Performance Assessment Task Force, 2015-16

Division: School of Education

Education Grant Committee, Dual Degree in Teacher Preparation, 2016-17

Faculty, Critical Education in Science, Math, and Technology (CESMT), 2015-17

Member, Faculty Association Professional Development Committee, 2015-17

Faculty, San Quentin Prison-USF Partnership, 2015-17

University: College of Arts and Sciences

Affiliate, Undergraduate Teacher Education Center, 2016-17

Faculty, Muscat Scholars Bridge Program, Statistics/Mathematics, 2016

Affiliate, Mathematics Department, 2016-17

Committee Member, Math Task Force for Mathematics Education Minor, 2016

Faculty Host, USF Gerardo Marin Faculty and Dissertation Fellow Search, 2016

CARDS Project Faculty Mentor, CAS/Upward Bound program, 2015-16

Volunteer, Social Equity and Leadership (SELC) Conference, 2015-16

Volunteer, Assistant Professor Position Search (TED), 2015-2016

Program Evaluation, Upward Bound Talent Search Program Grant, 2016

Affiliate, Upward Bound Program, 2014-16

University of California at Berkeley

Division: College of Letters and Science

Course Developer and Committee Member, American Cultures (AC) EDUC 131, 2015

City University Of New York, Borough of Manhattan Community College

Department: Mathematics and Statistics

Researcher, Gaming in Mathematics and Science Education Initiative, 2011

Mathematics Faculty, BMCC Summer Immersion Program, 2010-12

Columbia University

Division: Teachers College Graduate School of Education

Committee Member, Black and Latino Males Doctoral Initiative, 2012-14

Co-founder, Diversity in Research and Practice (DiRP) Conference, 2010-13

Vice President (2011, 2012), Black Student Network (BSN), 2010-13

University of North Carolina at Chapel Hill

Volunteer, Minority Student Recruitment Committee (MSRC), 2004-07

Volunteer, Campus Y (University-based YMCA), 2004, 2006-07

Volunteer, Carolina Scholarship Programs, 2003-07

Volunteer, Office of Student Admissions, 2003-06

Social Committee, Senior Marshals of UNC, Class of 2007

VP and 25th Anniversary Chair, Xi Gamma Chapter, Phi Beta Sigma Fraternity, 2005-07

Volunteer and Member, Alpha Phi Omega Service Fraternity, 2005-07

Consultations

Peer Health Exchange, San Francisco, CA, 2018

The Buckner School, Boston, MA, 2017

Adult Education Program (AEP), Dangriga, Stan Creek Town, Belize, 2016-17

Creating Balance Conference on Mathematics and Social Justice, 2016

Volunteer, Free Minds Free People Conference, Oakland, CA, 2015

Teacher Educator, Prison GED Program, San Quentin State Prison, 2015-17

Mentor, West Oakland Community Center, Oakland, CA, 2015-16

Member, Coca-Cola Scholars' Selection Committee, Atlanta, GA, 2014, 2015, 2018

Power Org Mathematics, Detroit, MI, 2014

Speaker, Oakland School for the Arts Dance Program, 2014

Consultant, Youth Scholar Academy, Institute for Responsible Citizenship (I4RC), 2009

Supplementary School Educator, Harlem Educational Activities Fund (HEAF), New York, NY, 2009-12

College Counselor, College Summit Summer Program, New York, NY, 2009

Research Skills and Technical Expertise

Research Skills: Program development and evaluation; K-16 mathematics curriculum development; Applied statistical analysis and quantitative model building; Social network analysis (SNA); Econometrics, budget, and financial growth modeling

Technical Expertise: Stata (advanced), Excel (advanced), SAS (proficient), SPSS (proficient), NVivo (proficient),
R (proficient), MATLAB (proficient), Python (beginner), L^AT_EX

Date of Birth: November 20

Place of Birth: Charlotte, North Carolina