

Ayanna D. Perry
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Education

North Carolina State University, Raleigh, NC

PhD. Mathematics Education, December 2013

Committee Chair: Dr. Hollylynne Lee

Dissertation: Equitable spaces in early career high school mathematics classrooms

North Carolina Central University, Durham, NC

M.S. Mathematics, August 2007

Committee Chair: Dr. Fredrick Johnson

Thesis: Using a Markov Chain to map the flow of students through the mathematics and computer science departments at North Carolina Central University

Shaw University, Raleigh, NC

B.S. Mathematics, May 2005

Magna Cum Laude

Work Experience

Associate Director, Teaching Fellows Program, Knowles Teacher Initiative, Moorestown, NJ

2/19- Present

Manage a team of Program Officers for Teacher Development to plan, enact, and evaluate the professional development of Fellows on Phase One of the Knowles Teacher Initiative Teaching Fellows Program, which focuses on developing the content knowledge needed for teaching for beginning high school math and science teachers. Duties include: working collaboratively with other Associate Directors and members of the leadership team to continually evaluate and improve the fellowship program, working collaboratively with other Associate Directors to maintain consistency and alignment between the two phases of the fellowship program.

Program Officer, Teacher development, Knowles Teacher Initiative, Moorestown, NJ

10/13 - 1/19

Mentor and support beginning mathematics and science teachers through a five-year professional development program. Duties include: planning and implementing professional development, participating in regular meetings to support teachers' individual inquiry work, and supporting teachers in taking advantage of grants for professional development, materials, and leadership.

Adjunct Instructor, University of Pennsylvania, Philadelphia, PA

08/14 - 6/19

Develop and teach a mathematics methods course for boarding school teachers in the Independent School Teaching Residency Program. The course content supports the teachers in considering the interactions of content, equity, and access to learning opportunities in the boarding school setting.

University Supervisor, North Carolina State University, Raleigh, NC

08/11-12/13

Supervise student teachers in the field experience component of degree completion. Duties include: coordinating cooperating teachers, conducting pre-and post-conferences, conducting teaching observations of the student teachers, mentoring and advising student teachers, and evaluating capstone project.

Research Assistant, North Carolina State University, Raleigh, NC

05/11 –12/13, 20 hrs/week

Program manager for the Noyce Mathematics Education Teaching Scholars program at NC State, NSF Grant No. DUE 0733794 and DUE 1240003. Responsible for handling the administrative aspects of the program. Duties include the following: advising and supervision of preservice scholars, maintenance of electronic media, recruitment, programmatic components, leading professional development sessions for scholars, establishing rapport with local high-needs schools, data collection, conducting non-evaluative classroom observations of inservice teachers, and compiling reports.

Teaching Assistant, North Carolina State University, Raleigh, NC

Spring 2013

Co-taught Teaching Mathematics in Senior High School (EMS-472). Developed and delivered lessons designed to further preservice teachers' understanding of school mathematics and how to teach it so others can understand it. The course content was tied closely to the content of the high school mathematics curriculum (algebra, geometry, calculus, statistics). Shared the responsibilities of the development and evaluation of assessments for this course with the professor.

Research Assistant, North Carolina State University, Raleigh, NC

08/09 – 05-11, 20 hrs/week

Research Assistant for the Diagnostic E-Learning Trajectories Approach (DELTA) applied to Rational Number Reasoning for Grades 3-8 project at NC State, NSF DRK-12 Grant No. 0531120. Duties included: analyzing assessment data, researching and developing assessment items, reviewing, summarizing, and reporting research literature, contributing to the design and upkeep of electronic media, learning to use technology (software and hardware) as the project required, developing and reviewing conference presentations, and assisting in preparation for and conduct of conferences, and meetings.

Educational Services Center, Raleigh, NC

Fall 2009- Fall 2013

Teach Mathematics SAT classes. Modify and deliver lessons designed to engage students with Algebra I, Geometry, and Algebra II concepts. Manage mixed ability classrooms of sophomore, junior and senior students. Assist students with applying testing strategies. Assign and review homework assignments.

Scotland County Schools, School on Business, Finance and Marketing, Laurinburg, NC

Fall 2007-Spring 2009

Secondary Mathematics Teacher. Taught Algebra II, Technical Math II, Geometry, and Advanced Functions and Modeling. Developed and delivered lessons designed to engage students with mathematical concepts. Managed mixed ability classrooms of sophomore, junior and senior students. Evaluated students' understanding and adjusted instruction to support all student learners.

Professional Development Provided

VI-ISPER 2022 STEM Institute

April 2022

Expanding talk to support equitable teaching: This workshop, cofacilitated with Fred Dillon, introduced teachers to strategies for appreciating and leveraging a wider range of classroom talk during their mathematics classes.

May 2022

Designed and facilitated two virtual workshops focused on improving instruction.

Using the 5 Practices to support equitable instruction: This workshop introduced teachers to the five practices for orchestrating discussions framework and invited them to reflect on which they might incorporate to teach more equitable.

Groupworthy tasks as a way to consider PBL unit planning: Using the 5 Practices to support equitable instruction: This workshop introduced teachers to components of complex instruction to support them in developing project-based unit plans grounded in the local phenomena they study in their classrooms.

Presentations and Papers

Kay, M., Nosek, C., **Perry, A.**, & Rivera, G. (May 2022). Dear School Leaders, Podcast for Leaders Coaching Leaders with Peter Dewitt. <https://www.buzzsprout.com/1705099/10711406-dear-school-leaders>

Lin, J., Myers, E., **Perry, A.**, & Psencik, K. (February, 2022). Building community in a divided world. Webinar presentation for The Learning Professional. <https://learningforward.org/webinar/building-community-in-a-divided-world/>

Lin, J., & **Perry, A. D.** (2022). Should groups set their own norms? Maybe not. *The Learning Forward Journal*, 43(1) 30-33. <https://learningforward.org/journal/building-community-in-a-divided-world/should-groups-set-their-own-norms-maybe-not/>

Sookhoo, D. and **Perry, A.** (2019). Beyond Diversity: Reflections on participation from two women of color. *Kaleidoscope: Educator Voices and Perspectives*, 6(1), 5–9.

Perry, A. D. (2018). 7 Features of Equitable Classroom Spaces. *The Mathematics Teacher*, 112(3) 186-191. <https://doi.org/10.5951/mathteacher.112.3.0186>

Perry, A. (October, 2019). Expanding Talk to Support Mathematical Thinking. Session presented at the 2019 *National Council of Mathematics Regional Conference*, Salt Lake City, UT

Thrasher, E. P. & **Perry, A. D.**, (2015) *High leverage iPad Apps in the mathematics classroom: Wolfram|Alpha*. *The Mathematics Teacher*, 109 (1) 66-70. <https://doi.org/10.5951/mathteacher.109.1.0066>

Perry, A. (April, 2014). Beginning secondary teachers' use of tasks. Session presented at the *Annual Conference of the National Council of Mathematics Teachers Research Conference*, New Orleans, LA.

Perry (Franklin), A. (February, 2014). Equitable spaces in early career teachers' mathematics classrooms. Session presented at the *Association of Mathematics Teacher Educators*, Irvine, CA.

- Perry, A. D., & Thrasher, E. P.** (2014). High leverage iPad Apps for the mathematics classroom. *The Mathematics Teacher*, 107 (9) 706-711. <https://doi.org/10.5951/mathteacher.107.9.0706>
- Thrasher, E., **Perry (Franklin), A.**, Hollebrands, K., & Lee, H. (February, 2014). Supporting and retaining beginning mathematics teachers. Using iPads to enhance the mathematics classroom Session presented at the *Association of Mathematics Teacher Educators*, Irvine, CA.
- Thrasher, E., **Perry, A.**, Byerly, S., Cetner, M., Hollebrands, K., Loeffler, M., Patterson, D., Van Reenen, C. (November, 2013). Functions and statistics in the real world. Workshop presented at the annual conference of the North Carolina Council of Teachers of Mathematics, Greensboro, NC.
- Perry (Franklin), A., & Thrasher, E.** (April, 2013). Using iPads to enhance the mathematics classroom. Session presented at the *Annual Conference of the National Council of Mathematics Teachers*, Denver, CO.
- Thrasher, E., & **Perry (Franklin), A.** (April, 2013). Supporting beginning teachers through online social communities. Session presented at the *Annual Conference of the National Council of Mathematics Teachers*, Denver, CO.
- Perry, A.** (May, 2013). Equitable spaces in early career teachers' mathematics classrooms: Cases of instruction. Poster presented at the *Annual Graduate Student Symposium for the Science, Technology, Engineering, and Mathematics Education Department*, North Carolina State University, Raleigh, NC.
- Thrasher, E., **Perry (Franklin), A.**, Lee, H., Hollebrands, K., Hall, W., Early, M., & Swandby, A. (October, 2012). Using iPads to enhance the mathematics classroom. Session presented at the *Annual Conference of the North Carolina Council of Teachers of Mathematics*, Greensboro, NC.
- Franklin, A.** (May, 2012). Investigations of Noyce scholars' classroom practices. Poster presented at the *Annual Graduate Student Symposium for the Science, Technology, Engineering, and Mathematics Education Department*, North Carolina State University, Raleigh, NC.
- Monrose, N., **Franklin, A.**, & Lee, H. S. (March, 2012). An analysis of student justifications and probability concepts and implications for instruction using technology. Session presented at the *2012 MAA Southwestern Region Conference*, Tucson, AZ.
- Franklin, A.**, Monrose, N., & Lee, H. S. (October, 2011). An analysis of students' understanding of sample size and variation. Session presented at the *Tenth Annual NC Opt-Ed Alliance Day Conference*, Raleigh, NC.
- Lee, H., Brannan, T., Childs, K., Clay, L., **Franklin, A.**, Jordan, L., Limer, C., Pawelka, E., Searfoss, A., Thrasher, E., & Washington, H. (October, 2011). Teacher led inquiry into fostering reasoning and motivation. Session presented at the *Annual Conference of the North Carolina Council of Teachers of Mathematics*, Greensboro, NC.
- Rice, J., Mann, L., & **Franklin, A.** (July, 2011). Activities that promote motivation, reasoning and sense-making in high school mathematics classrooms. Session presented at the *Sixth Annual Conference of the National Science Foundation Robert Noyce Teacher scholarship Program*, Washington, DC.
- Lee, H., **Franklin, A.**, & Thrasher, E. (July, 2011). Providing opportunities for teachers to take a scholarly lens

toward designing and implementing research-based tasks. Session presented at the *Sixth Annual Conference of the National Science Foundation Robert Noyce Teacher Scholarship Program*. Washington, DC.

Confrey, J., Nguyen, K., Maloney, A., **Franklin, A.**, Monroe, N., & Yilmaz, Z. (November, 2010). Constructing a LT for Length and Area. Session presented at the *2010 Advisory board meeting for DELTA Research DRK-12 Grant # 0531120*. Raleigh, NC.

Franklin, A., Yilmaz, Z., & Confrey, J. (October, 2010). Reconciling student thinking and theory: The Delta learning trajectory and the case of transitivity. Poster presented at the *32nd Annual Conference of North American Chapter of the International Group for the Psychology of Mathematics Education*, Columbus, OH.

Books

Dillon, F., **Perry, A. D.**, Cheng, A., & Outzs, J. (2022). *Answers to your biggest questions about teaching secondary math*. Corwin Press. Thousand Oaks, CA.

Blogs

Dillon, F., & **Perry, A.** (2022) 3 Ways to Have a Successful End to the School Year [link](#)

Shirey, K., & **Perry, A.** (2019) How our ideals influence whom we teach: Part One [link](#)

Perry, A., & Shirey, K. (2019) How our ideals influence whom we teach: Part Two [link](#)

Garcia, S., & **Perry, A.** (2018) Colorblind Versus Color'splaining: When Teachers and Teacher Mentors Examine the Use of Race as a Lens to Evaluate Teaching Practice [link](#)

Perry, A. (2017) Building Community Through The Use of Protocols [link](#)

Perry, A. (2016) Keeping Our Expectations High [link](#)

Professional Activities and Affiliations

National Council of Teachers of Mathematics	
Member and Reviewer	2009- present
Program Committee Member, Salt Lake City Regional conference	2018-2019
Member, North Carolina Council of Teachers of Mathematics	2009, 2011-2013
Member, Association of Mathematics Teacher Educators	2011-present
Member, Association of Maryland Mathematics Teacher Educators	2022-present
Reviewer, Association of Mathematics Teacher Educators	2013
Member, American Educational Research Association	2012
Member, TODOS, Math For All	2017-present

Honors Society Memberships

Alpha Chi Honor Society	2003- present
Alpha Kappa Mu Honor Society	2004-present
Kappa Delta Pi International Honors Society	2012-present

