

Peter M. Eley, Ph.D.

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TEACHING & RESEARCH PROFILE

Passionate educational practitioner and leader with over two decades of experience within various facets of higher education: supervising, planning, fundraising, implementing, and managing courses to engage and develop students of the 21st century. Possess innovative leadership skills in actively cultivating and maintaining relationships with students and colleagues in an environment that values collaboration and professional development.

Skills include:

- Professorship & Teaching
- Planning & Strategizing
- Project Management
- Accreditation
- Student & Alumni Engagement
- Researcher & Author
- Evaluator
- Fundraising

EDUCATION & ACCOMPLISHMENTS

Doctor of Philosophy in Mathematics Education, North Carolina State University; Raleigh N.C. Received: 2011

- Supporting Areas of Emphasis: Technology and Equity
- Dissertation Title: "Who has access to algebra I in the 8th grade?"

Master of Mathematics Education, North Carolina State University, Raleigh, NC. Received: 2008

- Does using computer software make a difference in learning Geometric and Probability Concepts?

Master of Science in Applied Mathematics, North Carolina State University; Raleigh N.C. Received: 2002

- Master's Thesis Title: RSA Method (Cryptography)

Bachelor of Science in Mathematics, Elizabeth City State University, Elizabeth City, NC. Received: 2000

- Thesis Title: Public Key Method (Cryptography)

Certifications:

- North Carolina Teaching Licensure Middle Grades Math (6-9) Secondary Math (9-12), current -2021
- Online Teaching Certification 8 & 9, Distance Education (September 2011 - Present)

TEACHING AND RESEARCH LEADERSHIP

National Science Foundation Park City Mathematics Institute (PCMI) workshops on Equity in Mathematics, Park City, Utah 2018
<https://pcmi.ias.edu/sites/pcmi.ias.edu/files/PCMI%20Poster%202018%20Final.pdf>

University of North Carolina System Office Administrative Fellowship (January 2018 – May 2019) <https://www.northcarolina.edu/news/2018/05/TEACHING-STUDENTS-TODAY-LEADING-TEACHERS-TOMORROW>

Fayetteville State University Provost Administrative Fellow (August 2018 – May 2019)
University College Division

National Council of Teachers of Mathematics (NCTM) Conference Planning Committee (2017-current) www.nctm.org

North Carolina Association of Mathematics Teacher Educators Executive Board (January 2016 – 2018) <https://cstem.uncc.edu/amte-nc>

North Carolina Association for Colleges and Teacher Educators Conference Planning Committee (2016-present) <http://www.ncacte.org/committees.html>

Massachusetts Institute for Career and College Readiness (MICCR) in collaboration with Boston University. (2015-2018) <http://sites.bu.edu/miccr/peter-eley/>

Higher Education Leadership Foundation Institute (HELFI) Beta Cohort Fellow; Salisbury, NC; 2015 <https://heleaders.org/wp-content/uploads/2018/01/Beta-Program-Book.pdf>

PROFESSIONAL EXPERIENCE

Academic-Post Secondary

Professor, Fayetteville State University (July 1, 2019 – Present)
Associate Professor (Tenured), Fayetteville State U (August 1, 2015 – June 30, 2019)
Assistant Professor, Fayetteville State University (August 1, 2011 – July 31, 2015)
Instructor, Fayetteville State University (August 1, 2010 - May 13, 2011)
Adjunct Professor, UNC-Greensboro (January 1, 2010 - May 10, 2010)
Adjunct Professor Winston-Salem State University (August 1, 2007 – December 2007)
Adjunct Professor Blue Mountain State University (August 1, 2007 – December 2007)

Professional Leadership

Associate Dean College of Education Fayetteville State University (2021- 2022)

- Lead of the Graduate Program (3 Masters & 1 Ed.D.)
- Lead Recruitment
- Lead Accreditation
- Policy creation and implementation
- Faculty Development and Mentoring
- Fundraiser
- New program degree development
- Promotion and Tenure Committees
- Writing Research, Publication & Grants

Interim Chairman of Educational Leadership and School Administration (2022- 2022)

- Managing Faculty and Staff
- Managing Department Budget
- Managing Department Schedules
- Working & Recruiting students
- Writing Research, Publications & Grants
- Curriculum development

Chair of Standards and Accreditation Committee (2021- 2022)

- Lead of Council of Accreditations of Educator Preparation (CAEP)
 - Successful accreditation of first ever CAEP for Initial
 - Successful accreditation of first ever CAEP for Advance
 - Lead for Assessment and Evaluation of College Programs
 - Lead for Statistical Analysis and Interpretation

Chairman of Elizabeth City State University Foundation (2019- 2022)

- Raised over \$15 Million private donors & other external support
- Managing \$8 million Budget Supporting ECSU through fundraising
- Providing Leadership to support Student Scholarships
- Leader of Fundraising

Interim Chairman of Health, Physical & Secondary Education Department, College of Education Fayetteville State University (2019- 2021)

- Managing Faculty and Staff
- Managing Department Budget
- Managing Department Schedules
- Working & Recruiting students
- Writing Research, Publications & Grants
- Curriculum and Major development

UNC System Office Administrative Faculty Fellow (2018-2019)

- Co-managed the Math Pathways Implementation Project
- Conducted Analysis on DFW rates in gateway Math Courses across the UNC System.
- Conducted other Administrative Projects as assigned

Provost Administrative Fellow at Fayetteville State University (2017-2019)

- Worked to develop strategies for high DFW Rates
- Conducted Analysis on Coaching strategies for student success
- Advised Provost of research findings and suggest solutions

Professor of Mathematics Education Fayetteville State University (2010- current)

- Teaching Graduate and Undergraduate Students
- Advising Graduate and Undergraduate Students
- Research & Academic Writing
- Advisor to Alpha Kappa Mu Honor Society
- Tenure & Promotion Committee
- IRB and Faculty Grievance Committees

100 Black Men of Cape Fear Mentoring Program Board of Directors (2018-2020)

- Student Mentoring
- Student Recruitment

Elizabeth City State University Foundation Executive Board (2016- 2019)

- Supporting ECSU through fundraising
- Recommendation to ECSU Leadership
- Student Recruitment

Massachusetts Institute for Career and College Readiness (MICCR) in collaboration with Boston University. (2015-2018)

- Conducted Research Study on Career and College Readiness Programs
- Provide Recommendations to leadership based on studies conducted.
- Support legislation to improve Career and College Readiness Programs

B.L.U.E. – G.R.E.E.N. Academy Charter School Board

- Provides Leadership for the charter school
- Provides budgetary oversight for the school
- Manages the hiring or removal of School Administration

Mathematics and Science Education Network STEM Coordinator, Winston-Salem State University (2005 - 2010)

- Provided Leadership for the STEM Network
- Provided budgetary oversight for 300K budget with 12 employees
- Scheduled courses for teachers and students
- Recruited Students for Math and Science programs.
- Obtained external grant funding to support programs (NSF, Tyco, etc.)

Data Manager for Institutional Research, St. Augustine's College (2004 - 2005)

- Maintained and queried the databases
- Completed Government Reports for Federal Agencies
- Analysis for Research for Institutional Improvements

- Writing technical reports for public dissemination.

Webmaster for St. Augustine's College (2004 – 2005)

- Designed and maintained the college's website
- Updates and maintained the databases that are connected
- Researching new technologies to make work efficient
- Internal Evaluator for Title III Grants (2003 –2004)
- Managed the evaluation for 10 activities
- Responsible for maintaining data records for reporting
- Data analysis of program data for reporting

K-12 Teaching Experiences

South Granville High School, Creedmoor, NC (2002-2003)

- Mathematics Teacher (Calculus1 Honors and Algebra 1)
- Assistant Football Coach

Eaton-Johnson Middle School, Henderson, NC (2002-2002)

- Mathematics and Science Teacher
- Taught Academically Gift Students

University Administrative Assignments

Chair of Council for the Accreditation of Educator Preparation (CAEP) 2021- present

Fayetteville State University Provost Admin Fellowship (August 1, 2017 – June 2019)

Chair of the Tenure and Promotion Committee (August 1, 2015 – 2019)

Chair of Standard 1 NCATE reaffirmation committee (August 1, 2014 – 2015)

Advisor of the Alpha Kappa Mu Honor Society (August 1, 2010 – Present)

Dissertation Chair (August 1, 2012 – December 10, 2016)

Committee Member of Institutional Review Board (August 1, 2011 – Present)

Committee Member of Evaluation Redesign (August 1, 2016 – Present)

Committee Member of Faculty Grievance (August 1, 2013 – Present)

Committee Member of Graduate Admission College of Edu (August 1, 2015 – Present)

Fayetteville State University College of Edu Teacher Edu (August 1, 2015 – present)

AWARDS AND HONORS

- Graduation Speak North Carolina State University Math Department (Fall 2020)
- UNC- System Board of Governors Excellence in Teaching Award (2020)
- Honor for Executive Board Service to the North Carolina Chapter Association of Mathematics Teacher Educators (Nov. 2018)
- UNC- System Office Administrative Fellow (2018-2019)
- Elizabeth City State University Honors Convocation Speaker (2018)
- Fayetteville Alpha Kappa Mu Honors Society Speaker (2017)
- Fayetteville State University Middle Grades Advisor of the Year 2016 (2016)
- Institute for College and Career Readiness (MICCR) Senior Research Fellow 2015-18
- North Carolina State University National Alumni Association Life Member 2021
- Elizabeth City State University National Alumni Association Life Member 2015

- Wynton H. Hadley Teaching Award 2014
- School of Education Teacher of the Year 2014, Fayetteville State University
- Middle Grades, Secondary and Specialized Subjects Teacher of the Year 2014,
- Grant Research Collaborations, ORSP 2013
- School of Education Publications Award, SOE 2013
- Alpha Kappa Mu Honor Society, Alpha Kappa Mu Honor Society 2011
- Ronald E. McNair Trio Trailblazer Award 2011

AFFILIATIONS/ORGANIZATIONS

- Association of Mathematics Teachers Education. (January 1, 2011 – Present)
- North Carolina Association of Mathematics Teacher Educators. (January 1, 2011 – Present)
- North Carolina Council of Teachers of Mathematics (March 7, 2006 - Present)
- National Council of Teachers of Mathematics (November 1, 2005 - Present)
- American Education Research Association (January 2018- current)
- Benjamin Banneker Association (March 1, 2006 - Present)
- Alpha Phi Alpha Fraternity, Inc. (November 22, 1997 - Present)

STUDENT LEARNING INVOLVEMENT

Dissertation Chair (August 1, 2013- December 10, 2016) *Advised: Lewis Cox*

Dissertation Committee Member, Other (Within Fayetteville State University)
Advised: Liggons Vernon, Ophelia Muns-Going, Amerka Eurka and Matthew Wynn

Selected Supervised Clinical Experience, "Student Teaching," Other (Within Fayetteville State University) (January 1, 2013 - Present).

Advised: Elizabeth Rogers, Brenda Bowden, Joseph Parker, and Letitia Turnage, Thuy Lu, Kristen Melton, Stephanie Pacquette, Bari White, Shelly Cohen, Kelly Sullivan, Sheree Montgomery, Emberly Brown, and Herminia Reese, David Guzman, Eddie Ford, Gloria Jackson, Monica Robbins, Ersertavia McLaughlin, Angela Williams, Latisha Terrell, Williams Vickers, Dewayne Nash, and Christine Decarmine, Kristy Gay, Ayeisha Wright, Duane Wilson, Michael Lucas

SELECTED PUBLIC INTELLECTUAL CONTRIBUTIONS (refereed = #, invited = +)

Book Chapters

#Eley, P. (2013). Technology in Mathematics as a Diversity Leadership tool. In Jone'l Lewis, Andre Green, Daniel Surry (Ed.), *Diversity Leadership* (pp. 219-229), Hershey, PA: IGI Publishing

+Eley, P. (2013). *Students Don't Care until they know you care*. Sage

Journal Articles

#Eley, P. (2022) The mathpack...A community of minority excellence
<https://www.mathvalues.org/masterblog/the-mathpack-a-community-of-minority-excellence> Mathematical Association of America

#Umerah, U., Kaniuka, T., Eley, P., Hudson, T. (2021) Student participation in a stem preparation program and decision to major and graduate in STEM Field at an historically black college and university. *International Journal of Education and Social Science*. Vol.8, No.4, pages: 48- 62 August

#Umerah, U., Kaniuka, T., Eley, P., Hudson, T. (2020) Student participation in a stem preparation program and academic performance at a historically black college and university. *International Journal of Education and Human Developments*. Vol.6, No.2, pages: 13- 30 July

#Eley, P., Smith-Burton, K., Gillespie, P., White, E. (2019) Social communication fosters student collaborations. *International Journal of Education and Human Developments*. Vol.1, No.1, January

#Eley, P. (2018). Case Study: Effectiveness of technology in students understanding of geometry and probability concepts. *International Journal of Education and Human Developments*. Vol.4, No.2, pages: 21-31 March

#Eley, P., Charles, K., Leeks, L. (2013). A New Vision for Professional Development. *Journal for Research in Mathematics Education Mathematics Teaching in the Middle School NCTM* May 2013

#Eley, P., Stiff, L. V. (2013). Your decision, but my future. *National Council of Professionals Education Administrators*, Vol.14, No.2: pages: 80-88

#Alexander-Lee, G., Eley, P., Fairley, C., Shamberger, C., (2013) Seventh Grade Attitude Changes in Learning Mathematics through Smartpen Technology. Fayetteville State University Digital Commons:
http://digitalcommons.uncc.edu/soe_faculty_wp/36/

#Eley, P., Stiff, L. V. (2012). A Tale about Access to 8th Algebra in North Carolina. *North Carolina Council of Teachers of Mathematics, Centroid*, 38(2), 7-10

#Eley, P., Hines, K. W. (2011). Students tell the story best: Creative Mathematics Storytelling using Narrative software, *North Carolina Council of Teachers of Mathematics, Centroid* 37(2), 9-13.

Conference Proceedings

Eley, P., Smith-Burton, K. (2013), Learning at my pace, I can finish the race. Honolulu, HI: *Hawaii University International Conferences on Education and Technology*
<http://huichawaii.org/eley-peter-m/>

Eley, P., (2009), How does the implementation of an inquiry-oriented curriculum for instruction on Euler's method affect the relationship between intended curriculum and learned curriculum? Raleigh, NC Conference on Research in Undergraduate Mathematics Education (*RUME*):
<http://sigmaa.maa.org/rume/crume2009/proceedings.html>

Early, M., Eley, P., Holstein, K., Keene, K., Lee, H. Lee, T., (2009), an investigation of one instructor's mathematical knowledge for teaching: developing a preliminary framework. Raleigh, NC: Conference on Research in Undergraduate Mathematics Education (*RUME*)
http://sigmaa.maa.org/rume/crume2009/Keene_LONG.pdf

Unpublished Dissertation and Thesis

Eley, P., (2011), Who Has Access to 8th Grade Algebra in North Carolina? A Case Study of Mathematics Placement Practices for Algebra I. Unpublished Dissertation: North Carolina State University:
<http://www.lib.ncsu.edu/resolver/1840.16/7140>

Eley, P., (2008), Does using computer software make a difference in learning Geometric and Probability Concepts Unpublished Thesis North Carolina State University
<http://www.lib.ncsu.edu/resolver/1840.16/2652>

Selected Presentations

Eley, P. National Council of Teacher of Mathematics Keynote: "An Unapologetic Conversation with Black Men in Mathematics" (November 19, 2021)

Eley, P. New York State Association Mathematics Supervisor Panel Discussion: Equity in Mathematics Education (April 28, 2021)

Eley, P. National Council of Teachers of Mathematics "Secure your Mask". Virtual Conference (Feb. 3, 2021)

Eley, P. National Council of Teachers of Mathematics "Finding the Common Denominator". Virtual Conference IGNITE (Feb. 5, 2021)

Eley, P. American Education Research Association "Barriers to Success of HBCU Student in Gateway Education Courses." San Francisco, CA (April 18, 2020)

Eley, P. National Council of Teachers of Mathematics (NCTM) "Measuring Equity part 2: Do you measure up?" Greensboro, NC (April 3, 2020)

Eley, P., Smith-Burton, K., Hawaii University International Conferences, "At my Pace I finish the Race," Hawaii (June 10, 2013)

Eley, P., National Council of Teachers of Mathematics, "Using SmartPens in a Mathematics Classroom," FSU HBCU-Up Grant, Denver, CO. (April 19, 2013).

Shamberger, C., Eley, P., Student Research Conference 2013, "Project PRISSSM: Product Research Involving Smartpens & Students Struggling in Mathematics," The Graduate School & the HBCU Master's Degree STEM Program, Capel Arena, FSU. (April 13, 2013)

Eley, P., GERA, "Flipping out about Algebra," Georgia Education Research Association, Savannah, GA. (October 19, 2012)

Eley, P., SOE Praxis I Workshop, SOE Praxis I Workshop, SOE, FSU (April 25, 2012)

Eley, P., FSU School of Education Conference, "Teaching Common Core Statistics," FSU School of Education, Fayetteville, NC (April 21, 2012)

Eley, P., SOE Praxis I Workshop, "SOE Praxis I Workshop," SOE, FSU (March 21, 2012)

Eley, P., Leeks, L. (Coordinator/Organizer), Center for Defense and Homeland Security, "Plug and Play Statistics," FSU, Cumberland County (February 25, 2012)

Eley, P., SOE Praxis I Workshop, "SOE Praxis I Workshop," SOE, FSU (February 22, 2012)

Eley, P., Leeks, L. (Coordinator/Organizer), Center for Defense and Homeland Security, "Plug and Play Statistics," FSU, Sampson County (January 24, 2012)

Eley, P., Fall Preview, "Deal or No Deal," FSU, FSU (November 2011)

Eley, P., North Carolina Council of Teachers of Mathematics, "Who has access to 8th grad Algebra in North Carolina," North Carolina Council of Teachers of Mathematics, Greensboro, NC. (October 27, 2011)

Eley, P., 4 Mini Praxis Workshops, "Praxis I Mathematics," SOARR, Butler Building (October 3, 2011)

Eley, P., Calculator Workshop, "How to use Graphing Calculators," FSU/Middle Grades, FSU (September 2011)

Eley, P., Bronco Kick Off, "Poll-Everywhere Workshop," FSU, FSU. (August 10, 2011)

Eley, P., FSU School of Education Excellence in Teaching, Fayetteville, NC, USA (April 9, 2011)

Eley, P., 2011 Excellence in Teaching Institute, "Be N-Spired, Grades 6-12," FSU School of Education, Fayetteville State University (April 8, 2011)

Smith-Burton, K., Eley, P., Johnson, R., Ward, M., FSU Open House, "Preparing to Teach the "I-Generation"," FSU Academic Affairs and Admissions, Fayetteville State University. (March 26, 2011)

Eley, P., FSU, "Praxis I math spring workshop," TSAP Program, FSU (March 23, 2011)

Eley, P., Professional Workshops, "Using Social Media to teach mathematics," MSEN, FSU (November 20, 2010)

Eley, P., Faculty Development, "Using Technology in the Classroom," Middle Grades, Secondary and Special Education, FSU. (November 18, 2010)

Eley, P., New Faculty Class, "Using Text Polls to teach Faculty," FSU (November 16, 2010)

Eley, P., FSU, "Praxis I math," TSAP Program, FSU (November 2, 2010)

CONTRACTS, FUNDED GRANTS AND SPONSORED RESEARCH

Funded

NASA- MUREP Pre-College Summer Institute (PSI) \$64,000 Principal Investigator: Trung Tran and Evaluator Peter Eley (2022)

Novel Mentoring Assessment for Undergraduate Research Opportunities. Principal investigator: Stephanie George, East Carolina University. Partnering institution: Peter Eley Fayetteville State University. \$18,000 (2018)

HBCU-UP (Co-Principal Investigator) HBCU-UP Stem Masters 2.5 million Sponsored by Department of Education (2017)

Fuller, R (Principal), Eley, P. (key personnel) "Robots" 1.5 million Sponsored by NSF, ITEST grant (2007).

Fuller, R. (Co-principal), Eley, P. (key personnel) 25,000 Sponsored by Tyco Electronics

Eley, P. (Principal), "Who has access to Algebra in the 8th Grade in NC?" Sponsored by Graduate School FSU, Fayetteville State University, \$5,000.00. (April 19, 2011 - December 11, 2011)

Shamberger, C. (Principal), Eley, P. (Co-Principal), "Project PRISSM: Product Research Involving Smartpens & Students Struggling in Mathematics," Sponsored by The Graduate School's HBCU Master's Degree STEM Program, Fayetteville State University, \$5,000.00. (February 11, 2013 - June 30, 2013)

Eley, P. (Principal) "Do iPad's and SmartPens level the playing field for special needs students," Sponsored by FSU Graduate School Title III, Fayetteville State University, \$4,000.00. (January 4, 2012 - May 1, 2012)