

# Peter M. Eley, Ph.D.

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## Career Profile

Passionate administrator and educational practitioner with over two decades of experience in administration and higher education: supervising, planning, fundraising, implementing, and managing resources. An innovative leader who actively cultivates and maintains relationships with colleagues and key stakeholders and builds an environment that values collaboration and professional development.

## **PROFESSIONAL EXPERIENCE**

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### **University Liaison – Intergovernmental Personnel Act- IPA (1/2023 – present)**

Fayetteville State University - NASA MSFC Office of STEM Engagement (OSTEM), Huntsville, AL

- Working towards developing Policies and Implementation for the NASA Internship program to establish consistent experience for all students and work to eliminate barriers to access. I am working closely with contractors and civil service personnel to reimagine strategy and policy to increase equity and access for minority students in Minority Serving Institutions.
- Development of Evaluation and Implementation for NASA Student Challenge programs. A critical review of student challenge programs with a focus on recruitment and eliminating barriers to success and making evidence decisions to mitigate problems and provide solutions where they are needed.
- Using Data Science techniques to support policy and decision-making.

### **Associate Dean College of Education Fayetteville State University (FSU) (6/2021- 6/2022)**

- Chief academic officer for the graduate programs out of the college of education at FSU. I developed strategies for recruitment, retention, and strengthening of education programs that lead to master's degrees and one doctorate degree.
- Provided the leading strategy for college of education recruitment for undergraduate and graduate programs across various disciplines.
- Served as the chair of the Accreditation committee for the college. Through our work, I led and created the self-study report and provided the necessary data documentation to support the self-study. Furthermore, I was the lead and correspondent for the accreditation committee during my tenure.
- Lead faculty development sessions and provide professional services in mentoring junior faculty in their research and academic careers.
- Provided a collaborative research environment that spurred new program development and new offering established under our leadership.
- Conducted performance reviews of Adjunct and Tenured faculty regarding job performance and review of self-evaluation of job performance.
- Develop new research studies that examined barriers to access in the education program and developed a teaching fellows' program to help alleviate the shortages in teacher education.

### **Chair of Standards and Accreditation Committee (6/2021- 6/2022)**

- Served as chair of this committee, leading to the successful reaffirmation of the College's Accreditations. Accreditation is critical because it allows colleges to offer degree meeting federal guidelines.
- Served as the committee chairman that received reaffirmation for Initial level teacher education programs.

- Served as the committee chairman that received reaffirmation for Advance level teacher education and School administration programs.
- Served as the committee chairman and organized the data and databases to support reaffirmations in addition to the statistical analysis and interpretation necessary to provide evidence of continuous improvement.
- Served as the committee chairman for reviewing and evaluating all college of education programs and provided recommendations for improvement or elimination.

**Interim Department Chair of Educational Leadership and School Administration (1/2022-6/2022)**

- Managed office staff and university faculty as they engaged in teaching and research. I supported faculty and managed financial resources to help faculty research the level of success in publishing and teaching. I also used planning strategies to develop course schedules and student work plan for timely graduation.
- Supported the dissertation work for departmental students and reviewed dissertations.

**Chair of Elizabeth City State University Foundation (6/2019- 6/2022)**

- Served as the foundation's chairman, where our main goal was to raise funds to support the university through scholarship and economic growth. During our tenure as chair, I led the team that raised over \$15 million in private donations & other external support.
- I also lead the \$19 million campaign to renovate 1 dormitory and demolish 2 existing structures. I managed a foundation portfolio that began with \$4.5 million, and after our tenure, it was valued at \$8 million. I also led the charge to purchase a multiple-unit housing complex with two adjacent properties to support future growth and provide much-needed housing space for visiting faculty. Lastly, I supported the university students through needed base scholarships from revenue generated by our philanthropic efforts.

**Interim Chairman of Health, Physical & Secondary Education Department, College of Education Fayetteville State University (6/2019- 6/2021)**

- Managed office staff and university faculty as they engaged in teaching and research. I supported faculty and managed financial resources to help faculty succeed in publishing and teaching. I also used planning strategies to develop course schedules and student work plans for timely graduation.
- Supported the creation and implementation of two new majors in the department by collaborating across the university and the UNC system office.
- Worked with existing staff and faculty to acquire new positions to support department growth, and I hired several new faculty members to help us continually improve as a department.
- Supported and participated in grant writing and evaluations of grants in the department to support research and create economic resources for the department to carry out its mission.

**UNC System Office Administrative Faculty Fellow (8/2018 - 12/2019)**

- Co-managed the Math Pathways Implementation Project out of the UNC System office, which consisted of 16 universities across North Carolina. I worked carefully with university Provosts, Presidents, and the System President to help mitigate poor performance in entry-level mathematics.
- Wrote reports and presented the reports before the various boards and stakeholders across the UNC system of colleges and universities.

**Provost Administrative Fellow at Fayetteville State University (8/2017- 8/2019)**

- Worked directly for the Provost office and provided strategies to mitigate high DFW rates at FSU. I provided recommendations based on research findings and worked to implement those strategies with faculty and students to support better student performance. I worked to develop strategies for high DFW Rates. Furthermore, I analyzed coaching strategies for student success and presented those findings to key stakeholders.

**Professor of Mathematics Edu Fayetteville State University (Tenured) (8/2010-current )**

- Taught in the teacher education program, leading to being a certified teacher in North Carolina. I lead the secondary and middle-grade teaching programs. I developed a new curriculum and updated the outdated curriculum. I have additionally supported student growth through academic advising and mentoring. Furthermore, I am an established researcher, and my work has been published in numerous peer-reviewed journals and book chapters. Our teaching in mathematics education has been recognized by receiving the state's highest honor for teaching with the UNC Board of Governors' Teaching Award for 2022.

**Massachusetts Institute for Career and College Readiness (MICCR) in collaboration with Boston University. (8/2015-7/2018)**

- Collaborate with colleagues nationwide to understand how to create a pipeline for college-ready students. I worked with schoolmasters and district leaders around the greater Boston, MA, area to review programming and identify and eliminate barriers to student success.

**Mathematics and Science Education Network STEM Coordinator, Winston-Salem State University (11/2005 – 8/2010)**

- Served as the first coordinator of the Math & Science Network. I established the foundation of the program from ground zero. I worked with parents and students to build the program into a strong pipeline of students who choose STEM careers because of participating in the academic enrichment program. Furthermore, I provided budgetary oversight for 300K and worked with 12 employees at the network. I recruited and retained students in the STEM areas and wrote grants that I funded that supported our student robotics program. I secured external funding through the National Science Foundation and Tyco Electronics.

**Data Manager for Institutional Research & Webmaster, St. Augustine's College (6/2004 – 10/2005)**

- Supported the Institutional Research Office by providing information for governmental reporting to IPEDS and other governmental agencies that required institutional data. I used our data science skills to build and maintain quarterly and annual reports critical to maintaining our college status. Maintained and queried the databases. Additionally, I supported the college as the webmaster. I provided content and information to the external website that supported the college's overall external relations for potential students, staff, and faculty.

**South Granville High School, Creedmoor, NC (6/2004 – 6/2005)**

- Supported high school students by teaching them courses in secondary mathematics that led to graduation. I also served as a mentor and football coach during our tenure.

**Eaton-Johnson Middle School, Henderson, NC (1/2002 – 6/2002)**

- Supported middle school students by teaching them mathematics and science courses. The student gaining mastery of these courses would lead to successful entry into high school.

## **EDUCATION & ACCOMPLISHMENTS**

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

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

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

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

### **Certifications:**

- Data Science Certificate program NC State University (2022 – current)
- North Carolina Teaching Licensure Middle Grades Math (6-9) Secondary Math (9-12), current -2021

## **AWARDS AND HONORS**

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- Elizabeth City State University Foundation Award Outstanding Leadership (2022)
- 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 (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)
- 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 Edu Teacher of the Year (2014), Fayetteville State University
- Middle Grades, Secondary and Specialized Subjects Teacher of the Year (2014),
- Alpha Kappa Mu Honor Society, Alpha Kappa Mu Honor Society (2011)
- Ronald E. McNair Trio Trailblazer Award (2011)

## **AFFILIATIONS/ORGANIZATIONS**

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- 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**

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

Dissertation Committee Member, Other (Within Fayetteville State University)  
*Advised: Liggins 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.uncfsu.edu/soe\\_faculty\\_wp/36/](http://digitalcommons.uncfsu.edu/soe_faculty_wp/36/)
- #Eley, P., Stiff, L. V. (2012). A Tale about Access to 8<sup>th</sup> 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](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. Association of Mathematics Teacher Education: "One mathematics culture unit, three modifications" New Orleans, LA (February 4, 2023)

Eley, P. National Council of Teacher of Mathematics: "Intersectionality and mathematics achievement: A place we should all meet" Los Angeles, CA (September 29, 2022)

Eley, P. National Council of Teacher of Mathematics: "Mending the bridge to equitable mathematics instruction through technology" Los Angeles, CA (September 28, 2022)

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 PRISSEM: 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 8thgrad 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)

**Professional References available upon request**