

# Karen M. Alexander

703-881-2766 | [kalexander@huskers.unl.edu](mailto:kalexander@huskers.unl.edu) | <https://www.linkedin.com/in/alexander-karen-60121317/>

## EDUCATION

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### University of Nebraska-Lincoln

*Ph. D. Candidate Educational Psychology*

Lincoln, NE

*Quantitative, Qualitative, and Psychometric Methods*

### Covenant College

*Master of Arts*

Lookout Mountain, GA

*Educational Leadership*

### University of North Dakota

*Bachelor of Science Middle School Education*

*Cum Laude*

Grand Forks, ND

*Concentrations in Mathematics and Music*

## EXPERIENCE

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### Graduate Research Assistant

*University of Nebraska*

June 2019 – Present

*Buros Center for Testing*

- Conduct research on a variety of topics related to history of testing
- Analyze data of specific tests for readability and possible issues of bias
- Edit documents for publication

### Graduate Teaching Assistant

*University of Nebraska-Lincoln*

Aug. 2017 – June 2019

*Lincoln, NE*

- Teach two sections of EDPS 459 Statistics for Behavioral Sciences/semester
- Create syllabus, lesson plans, materials, assessments, and teach course
- Work with other teachers and tenured professor as a team
- Integrate statistical software into the course (SPSS and R)

### Upper School Principal

*Trinity Christian School*

June 2013 – June 2017

*Fairfax, VA*

- Responsible for school programs with over 60 faculty and over 300 students
- Implemented a continuous improvement plan that school continues to use, with decisions being driven by data
- Led school through accreditation review process which resulted in re-accreditation
- Implemented 1 to 1 technology program for students in grades 7 – 12
- Interviewed, hired, and evaluated faculty and staff
- Created, implemented, and evaluated faculty evaluation tool, annual parent survey, and annual student survey
- Oversaw standardized testing
- Managed budgets for curriculum and activities

### Middle School Principal

*Trinity Christian School*

June 2006 – June 2013

*Fairfax, VA*

- Responsible for school programs with over 25 faculty and over 200 students
- Led analysis and restructuring of science and English curriculum
- Interviewed, hired, and evaluated faculty and staff
- Oversaw standardized testing
- Managed budgets for curriculum and activities

### Middle and Upper School Teacher

*Trinity Christian School*

Aug. 1997 – June 2014

*Fairfax, VA*

- Taught students in grades 6 – 12. Math 7, Pre-Algebra, Algebra 1, Algebra 1 Accelerated, Geometry, Statistics, Logic, Life Science, Earth Science
- Developed, implemented, and analyzed math, science, and logic curriculum
- Created scope and sequence for K – 12 mathematics curriculum
- Served and led textbook adoption committees for mathematics and science

### Mathematics Department Chair

*Walt Whitman Middle School*

Aug. 1993 - June 1997

*Alexandria, VA*

- Provided communication conduit between school and county
- Guided and led instruction of mathematics faculty at school level

## Mathematics Teacher

Aug. 1991 - June 1997

*Walt Whitman Middle School*

*Alexandria, VA*

- Taught students in grades 7 and 8. Math 7, Pre-Algebra, Algebra 1 Honors, and Geometry
- Team member that developed and wrote middle school math curriculum for Fairfax County Public Schools
- Taught students who qualified for LD, ESL, and ED services in mainstreamed classroom
- Served on school accreditation team
- Trained as a Peer Evaluator for Fairfax County Public Schools

## K - 8 Teacher

Aug. 1990 - June 1991

*Corpus Christi School*

*Arlington, VA*

- Taught K - 8 Technology, 6th Grade Reading, 7th Grade English
- Wrote, implemented, taught, and assessed curriculum

## Teacher's Assistant

Aug. 1989 - June 1990

*Bryant Alternative School*

*Alexandria, VA*

- Taught individual students in grades 7 and 8 mathematics

## PRESENTATIONS

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### University of Nebraska-Lincoln | *Quantitative, Qualitative, and Psychometric Seminar*

Aug. 2019 – Present

- Teacher Assessment: Formative and Summative
- Psychometric Programs Analysis Across the USA
- Visualized GitHub data to show collaboration

### Trinity Christian School | *Faculty Professional Development*

Aug. 2006 – May 2016

- Continuous Improvement
- Use and Interpretation of Data
- Classroom Level Assessment Analysis
- Formative and Summative Assessment
- Standardized Test Scores
- Cooperative Learning
- Classroom Best Practices
- Graphic Organizers
- Classroom Management

### Trinity Christian School | *Parent Information Nights*

Aug. 2006 – May 2016

- Homework
- Course Selection
- Rising 6th Graders
- College Admissions Process

### Association of Christian Schools International | *Regional Convention*

Oct. 2000

- Biblical Integration of Mathematics

### Fairfax County Public Schools | *Pyramid Meetings*

Aug. 1991 - June 1997

- Statistics Across Curriculum to Science and Social Studies Departments
- Co-Teaching and Inclusion

## EXTERNALLY FUNDED RESEARCH ACTIVITY

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**Teacher Verbal Ability and Student Outcomes** Literature Review, Council for Accreditation of Educator Programs, 2019

**Timeout Room Grant Proposal** Co-Authored, Walt Whitman Middle School, 1995

## AUTHORSHIP

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**Alexander, K. & Geisinger, K. F.** (2019). *Teacher Verbal Ability and Student Outcomes*. Council for Accreditation of Educator Programs

**Chen, D., Dizona, P., Alexander, K., Kerby, H., & Madison, K.** (2019, May). *The changing landscape of healthcare policy: Implications across groups of older Americans*. [Poster Presentation] The Society for Prevention Research 27th Annual Meeting, San Francisco, CA.

## AWARDS, RECOGNITIONS, AND HONORARY OFFICES

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**Barbara S. Plake Fellowship** University of Nebraska-Lincoln, 2019

**Upper School Principal, Emeritus** Trinity Christian School, 2016

**National Teacher of the Year Nomination** Trinity Christian School, 2003

**National Teacher of the Year Nomination** Walt Whitman Middle School, 1998

**Pi Kappa Lambda Member** National Music Honor Society, 1986 - 1988

## LEADERSHIP EXPERIENCE

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**QQPM Student President** University of Nebraska-Lincoln, Aug. 2019 - Aug. 2020

**QQPM Student Vice President** University of Nebraska-Lincoln, Aug. 2018 - Aug. 2019

**School Accreditation Lead** Trinity Christian School, 2015 - 2017

## SERVICE ON COMMITTEES AND BOARDS

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**Article Reviewer** AERA Open, 2020

**Education and Human Sciences Dean Search Committee** University of Nebraska-Lincoln, 2018-2019

**Peer Reviewer** The Nebraska Educator, 2018 - Present

**Accreditation Site Team Committee** AdvancEd - SACS-CASI, 2012, 2016

**Mathematics and Science Textbook Adoption Committees** Trinity Christian School, 2000, 2002

**School Accreditation Committee** Walt Whitman Middle School, 1995 - 1997

**School Discipline Committee** Walt Whitman Middle School, 1994 - 1996

**Mathematics Textbook Adoption Committee** Fairfax County Public Schools, 1996

**Mt. Vernon Pyramid Committee** Fairfax County Public Schools, 1991 - 1997

## PROFESSIONAL MEMBERSHIPS

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**American Educational Research Association**, 2019 - Present

**The National Council on Measurement in Education**, 2019 - Present

**Association for Supervision of Curriculum Development**, Past

**National Council of Teachers of Mathematics**, Past

## PROFESSIONAL MEMBERSHIPS

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SPSS, SAS, MPlus, R

eleot®– Trained and Certified

National Teacher Examinations – Passing scores in Communication Skills, General Knowledge, Professional Knowledge, and Mathematics

Certification in Teaching ESL through The Center for Applied Linguistics