

CATIE ACITELLI, MS

Department of Mathematics \diamond North Carolina State University

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EDUCATION

North Carolina State University	2018-Present
Master of Science in Mathematics	2020
Mathematics PhD, ABD; Expected Completion: 2022	Raleigh, NC
Mathematics Education PhD Minor	
Advisor: Dr. Ernest Stitzinger	
University of North Carolina at Charlotte	2017-2018
Post-Baccalaureate Coursework: Matrices & Linear Algebra, Differential Equations, Probability & Statistics I, Intro to Modern Algebra	Charlotte, NC
North Carolina State University	2008-2012
Bachelor of Science in Mathematics, Cum Laude	Raleigh, NC
Bachelor of Science in Secondary Mathematics Education, Cum Laude	

TEACHING EXPERIENCE

Instructor of Record	2018-present
North Carolina State University	
<ul style="list-style-type: none">• MA 121: Elements of Calculus (4 times)<ul style="list-style-type: none">• 200+ students in three sections• Supervised 2 – 3 TAs each time who assisted with grading• MA 231: Calculus for Life and Management Sciences B (3 times)<ul style="list-style-type: none">• 15 – 45 students in each section• MA 405: Introduction to Linear Algebra (3 times)<ul style="list-style-type: none">• 45 – 50 students in each section• Supervised a TA who assisted with grading	
Recitation Leader, Teaching Assistant, Grader	2009-2012, 2018-present
North Carolina State University	
<ul style="list-style-type: none">• MA 114: Introduction to Finite Mathematics with Applications (TA)• MA 121: Elements of Calculus (TA)• MA 131: Calculus for Life and Management Sciences A (Recitation)• MA 141: Calculus I (TA 3 times, Recitation)• MA 231: Calculus for Life and Management Sciences B (Recitation)• MA 241: Calculus II (TA 10 times, Recitation 2 times)• MA 242: Calculus III (Grader)• MA 405: Introduction to Linear Algebra (TA)	
High School Teacher	2012-2018
Providence High School (2013-2018)	
<ul style="list-style-type: none">• Foundations of Math I, Math I, Foundations of Math III, Math III, Honors Math III, Advanced Functions & Modeling (Team Lead), Honors Pre-Calculus	
Vance High School (2012-2013)	
<ul style="list-style-type: none">• Geometry, Math II, Math III, Advanced Functions & Modeling (Team Lead), AP Calculus AB/BC	
Student Teacher	2012
JF Webb High School of Health and Life Sciences	
<ul style="list-style-type: none">• Algebra I, Honors Geometry, AP Statistics, AP Calculus AB/BC, Spanish I	

HONORS AND AWARDS

Maltbie Teaching Award North Carolina State University Mathematics Department	2021
Outstanding Teaching Assistant North Carolina State University Graduate School	2021
Preparing the Professoriate Fellow North Carolina State University	2020-2021
Faculty Appreciation Dinner Guest North Carolina State University	2020
Most Valuable Teacher Providence High School	2018
Most Valuable Teacher Zebulon B. Vance High School	2013
Most Effective Use of Classroom Technology Zebulon B. Vance High School	2013
PAMS Senior Leadership Award North Carolina State University College of Physical and Mathematical Sciences	2012
North Carolina Teaching Fellow North Carolina State University	2008-2012
Leader of the Pack Finalist North Carolina State University	2009-2010
Martha Guy Summer Institute for Future Business Leaders Appalachian State University	2007

DISSERTATION RESEARCH

Development of a Post-Quantum Mathematical Cryptography with Python Curriculum
North Carolina State University, advised by Dr. Ernest Stitzinger

RESEARCH INTERESTS

- Undergraduate accessibility of post-quantum mathematical Cryptography
- Secondary and post-secondary curriculum development and evaluation

SERVICE & MENTORING EXPERIENCE

Graduate Student Representative, Diversity, Equity, & Inclusion Committee North Carolina State University Mathematics Department	2021-present
Mentor, AMS Graduate Student Chapter North Carolina State University Mathematics Department	2020-present
Executive Team Member, Undergrads Union Grads North Carolina State University Mathematics Department	2020-present
Mentor, Undergrads Union Grads North Carolina State University Mathematics Department	2019-present
Organizer, HBCU Student Tours Providence High School	2016-2017

Club Advisor, Youth Commission International Providence High School	2015-2018
Organizer, Todd Fuller Math Competition North Carolina State University	2010-2013
Team Lead, Teaching with Technology Committee Vance High School	2012-2013
Co-chair, Teaching Fellows Fundraising Committee North Carolina State University College of Education	2010-2011
Co-founder, Active Community Teens North Carolina State University	2009-2010
Mentor, Determined Area Youth North Carolina State University	2009-2010
Education Advisor, Students Advocating for Youth North Carolina State University	2009-2010
Mentor, Students Advocating for Youth North Carolina State University	2008-2009

PRESENTATIONS AND PANELS

What are PTP and TCC? Panel North Carolina State University, MGSA	2021
Applying to Graduate Schools in Mathematics Fayetteville State University	2021
Applying to Graduate Schools in Mathematics Belmont Abbey College	2021
What is a Prelim? Panel North Carolina State University, Undergrads Union Grads	2021
New Graduate Student Orientation Panel North Carolina State University, Department of Mathematics	2021
Mathematical Cryptography in a Post-Quantum World North Carolina School of Science and Mathematics	2021
Applying to Graduate School North Carolina State University, Undergrads Union Grads	2020
Pre-Calculus Curriculum Teacher Training Charlotte Mecklenburg Schools, District Training	2018
It's Cool to Care: Developing Meaningful Relationships with Students Providence High School, Teacher Training	2017
Teaching for Excellence with PEAK Strategies Providence High School, Teacher Training	2016
Promethean Board: More than Just a Glorified Projector Providence High School, Teacher Technology Training	2015
What They Don't Tell You: Expect the Unexpected North Carolina State University, Teaching Fellows Program	2014

GUEST LECTURES

North Carolina State University	
Calculus II	2020
Finite Mathematics	2019
Calculus for Life & Management Sciences B	2018
Elements of Calculus	2009
Providence High School	
Honors Pre-Calculus	2017, 2018
Zebulon B. Vance High School	
Geometry	2013
AP Statistics	2012

OTHER RELEVANT EXPERIENCE

Undergraduate Outreach TA	2021-2022
North Carolina State University	
Graduate Curriculum Writer	2020-2021
North Carolina State University	
District Curriculum Writer	2018
Charlotte Mecklenburg Schools	
Test Administrator	2013-2018
ACT, SAT	
Cheerleading Coach	2013-2018
Holy Trinity Catholic Middle School & Providence High School	
Uncommon Planning Board Member	2012-2013
Charlotte Mecklenburg Schools	
Mathematics Placement Test Writer	2012
North Carolina State University	
Common Core Planning Team Member	2012
Granville County Schools	
Tutor	2008-present
Various Subjects, Grades 6-16	

CERTIFICATIONS

Inclusive Teaching Certificate	2022
Teaching and Communication Certificate	2022
Standard Professional 2 NC Teaching License, 9-12 Math	2012-present

GRADUATE COURSEWORK

- Teaching in the Math Department
- Teaching & Learning of Algebraic Thinking
- Curriculum Development & Evaluation
- Foundations in Math Education
- Teaching & Learning of Statistical Thinking
- Linear Algebra
- Lie Algebra
- Leibniz Algebras
- Abstract Algebra I & II
- Complex Analysis
- Numerical Analysis I
- Matrix Theory I & II
- Combinatorics I & II
- Coxeter Groups
- Cryptography

PROFESSIONAL AFFILIATIONS

- American Mathematical Society
- National Council of Teachers of Mathematics
- Association for Women in Mathematics
- North Carolina Council of Teachers of Mathematics

SKILLS

Computer Languages and Programs

Python, MATLAB, L^AT_EX

Educational Tools

Moodle, Canvas, EdPuzzle, Screencastomatic, Piazza
Nearpod, Zoom, Google Classroom, Flipgrid,
Gradescope, PlayPosit, GeoGebra

Other

Microsoft Office Suite, Google Package, Apple Package

Foreign Language

Proficient in Spanish