

# Ethan A. Smith

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*Résumé*

## Education

- 2012–2014 **Master of Arts, Mathematics**, *Appalachian State University*, Boone, NC.  
2008–2012 **Bachelor of Science, Mathematics**, *North Carolina Central University*, Durham, NC, *Summa Cum Laude*.

## Graduate Directed Research

- Title *On Quantum Groups and Crystal Basis*  
Supervisor Professor Vicky Klima, Ph.D  
Description This research project aimed to study the combinatorial patterns associated with the quantitized special linear Lie algebra  $\mathfrak{sl}_2$ .

## Work Experience

- 2016–Present **Mathematics Instructor**, CATAWBA VALLEY COMMUNITY COLLEGE, Hickory, NC.  
2014–2016 **Mathematics Teacher, 9–12**, OLYMPIC HIGH SCHOOL, Charlotte, NC.  
2014–2016 **Adjunct Mathematics Faculty**, YORK TECHNICAL COLLEGE, Rock Hill, SC.  
2012–2014 **Graduate Teaching Assistant**, APPALACHIAN STATE UNIVERSITY, Boone, NC.

## Awards

- Spring 2018 Finalist for 2018 Excellence in Teaching Award  
January 2017 Bronze Award of Excellence in Recruitment & Retention Initiatives  
April 2013 Phi Kappa Phi Honors Society, *Lifetime Member*  
May 2012 Marjorie Lee Browne Award for Excellence in Mathematics, North Carolina Central University Department of Mathematics  
Spring 2011 S-STEM Scholar, North Carolina Central University  
May 2008 North Carolina Teaching Fellows Scholar  
May 2008 North Carolina Scholar

## Presentations

- March 2019 *Making Videos: From Cheap to Expensive*, presented at the 2019 NCMATYC Conference at Caldwell Community College and Technical Institute  
November 2018 *Precalculus in a Nutshell: from the NCCCS Perspective*  
March 2018 *Using CoCalc in the Classroom*, presented at the 2018 NCMATYC Conference at Carteriet Community College  
March 2017 *A history of logarithms* (co-presenter Vacilica Marhao), presented at the 2017 NCMATYC Conference at Durham Technical Community College  
February 2017 *Basics of linear algebra*, presented at the CVCC STEM Colloquium Series

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April 2014 *On quantum groups and crystal bases*, presented at the Appalachian State University Department of Mathematics' Mathematical Sciences Colloquium

March 2014 *Lie algebras*, presented at the MAA Southeast Conference at Tennessee Technological University in Cookeville, TN

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## Professional Activities

### Professional Organizations

2018–Present North Carolina Mathematics Association for Two Year Colleges, Vice President of Western Region

2017–Present North Carolina Community College Association for Distance Learning, Member

2016–Present North Carolina Council for Teachers of Mathematics, Member

### Professional Committees

2018–Present QEP Reflection Committee Member

2018–Present Reinforced Instruction for Student Excellence (RISE) MAT 043 Framing Committee, Member *per defaultam*

2018–Present Reinforced Instruction for Student Excellence (RISE) MAT 143 Committee, Chairperson

### Service to CVCC

2018–Present Faculty sponsor for the CVCC Mathematics Club

Spring 2018 Coordinator for the 25<sup>th</sup> Annual CVCC Jeanette L. Staley Mathematics Team Competition

March 2018 Volunteer for Science Olympiads, Optics – Division C

Spring 2018 Extreme STEM Tour Guide

Spring 2017 Co-coordinate of the CVCC STEM Colloquium Series

Fall 2017 Faculty sponsor for the CVCC mathematics team at the NCMATYC Mathematics Competition at Forsyth Tech. Community College

2016–2017 Faculty Senator

Spring 2017 Author of the Math III Test for the 24<sup>th</sup> Annual CVCC Jeanette L. Staley Mathematics Competition

2017–Present Faculty sponsor for the CVCC mathematics team for the University of North Georgia Mathematics Competition

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## Courses Taught

### CVCC

○ DMA 020

○ DMA 040

○ DMA 050

○ DMA 060/065

○ MAT 143 – Quantitative Literacy

○ MAT 171 – Precalculus: Algebra

○ MAT 271 – Calculus I

○ MAT 272 – Calculus II

○ MAT 280 – Linear Algebra

### York Technical College

○ MAT 101 – Beginning Algebra

### Appalachian State University

○ MAT 1020 – College Algebra with Applications

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- MAT 1025 – Precalculus

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## Skills

- Microsoft Office Suite
- HTML
- CSS
- Python
- Maple
- Github | <https://github.com/smithea3/quant-lit-apps>
- Adobe Acrobat
- JavaScript
- Markdown
- MATLAB
- Mathematica

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## Interests

- Mathematical Modeling
- Programming
- Mathematical Physics
- Chess
- Coordinate-Free Classical Mechanics
- Lie algebras