

# Noah A. Hughes

Assistant Professor of Mathematics  
Winston-Salem State University

## Contact

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## Education

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### University of Connecticut

Ph.D. Mathematics, GPA: 3.84

Louis J. DeLuca Outstanding Teaching Assistant Award, Graduate Certificate in Logic

Storrs, Connecticut

May 2021

### National University of Singapore

IMS Graduate Summer School in Logic

Singapore

2019

### Appalachian State University

M.A. Mathematics, Concentration: College Teaching, GPA: 4.00

B.S. Mathematics, GPA: 4.00

*Summa cum laude*, Most Distinguished Graduate in Mathematics

Boone, North Carolina

May 2015

May 2014

### Carnegie Mellon University

Summer School in Logic and Formal Epistemology

Pittsburgh, Pennsylvania

2014

## Bibliography

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*Applications of Computability Theory to Infinitary Combinatorics*

Ph.D. Thesis, University of Connecticut, May 2021.

*Reverse mathematics and marriage problems with finitely many solutions*, with Jeffrey L. Hirst.

Archive for Mathematical Logic **55** (2016) 1015-1024.

Available online (DOI) [10.1007/s00153-016-0509-4](https://doi.org/10.1007/s00153-016-0509-4).

*Reverse mathematics and marriage problems with unique solutions*, with Jeffrey L. Hirst.

Archive for Mathematical Logic **54** (2015) 49-57.

Available online (DOI) [10.1007/s00153-014-0401-z](https://doi.org/10.1007/s00153-014-0401-z).

*On the minuscule representation of type  $B_n$* , with William J. Cook.

Involve **11** (2018), No. 5, 721-733.

Available online (DOI) [10.2140/involve.2018.11.721](https://doi.org/10.2140/involve.2018.11.721)

*Reverse Mathematics: Calibrating Logical Strength in Mathematics*

Honors Undergraduate Thesis, Appalachian State University, 2014.

## Invited Presentations and Participation

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Department of Mathematical Sciences Colloquium

Appalachian State University

October 2020

Reverse Mathematics of Combinatorial Principles

CMO/BIRS Workshop 19w5111

Casa Matemática Oaxaca

September 2019

AMS Spring Eastern Sectional Meeting, Special Session on Computability Theory University of Connecticut	April 2019
New England Recursion and Definability Seminar Springfield College	November 2018
SIGMA Seminar University of Connecticut	March 2018
STEM Seminar Appalachian State University	January 2015
Ghent University Ghent, Belgium	March 2014

## Contributed Presentations

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IMS Graduate Summer School in Logic National University of Singapore	July 2019
ASL Annual North American Meeting University of Connecticut	May 2016
ASU Mathematical Sciences Colloquium Series Appalachian State University	March 2015
MAA South Eastern Section Spring Meeting University of North Carolina Wilmington	March 2015
Joint Mathematics Meetings San Antonio, TX	January 2015
UNCG Regional Mathematics and Statistics Conference University of North Carolina Greensboro Outstanding Graduate Student Presentation	November 2014
National Conference on Undergraduate Research University of Kentucky	April 2014
ASU Department of Mathematical Sciences Colloquium Series Appalachian State University	March 2014
North Carolina Honors Association Conference Appalachian State University	October 2013
ASU Department of Mathematical Sciences Colloquium Series Appalachian State University	April 2013
MAA South Eastern Section Spring Meeting Winthrop University	March 2013
UNCG Regional Mathematics and Statistics Conference University of North Carolina Greensboro	November 2012
North Carolina Council of Teachers of Mathematics Annual Conference Greensboro, NC	October 2012

## Teaching Experience

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(\* Indicates role was teaching assistant instead of instructor of record.)

MAT 2326: <i>Elementary Statistics</i>	Summer 2022
MAT 2316: <i>Linear Algebra</i>	Spring 2022
MAT 2326: <i>Elementary Statistics</i>	Fall 2021
Math 1131Q: <i>Calculus I</i> *	Fall 2020
Math 2210Q: <i>Applied Linear Algebra</i> *	Summer 2020
Math 2210Q: <i>Applied Linear Algebra</i>	Fall 2019
Math 2210Q: <i>Applied Linear Algebra</i>	Spring 2019
Math 2110Q: <i>Multivariable Calculus</i> *	Fall 2018
<i>Calculus I</i> – instructor for UConn BRIDGE	Summer 2018
Math 2410Q: <i>Elementary Differential Equations</i>	Spring 2018
Math 2110Q: <i>Multivariable Calculus</i>	Fall 2017
Math 2410Q: <i>Elementary Differential Equations</i>	Spring 2017
Directed Reading Program: <i>Computability Theory</i> by Rebecca Weber – mentor	
Math 1132Q: <i>Calculus II</i> *	Fall 2016
Directed Reading Program: <i>Naive Set Theory</i> by Paul Halmos – mentor	
Math 1132Q: <i>Calculus II</i> *	Spring 2016
Math 1020: <i>Problem Solving</i>	Fall 2015
MAT 1020: <i>College Algebra with Applications</i>	Spring 2015
MAT 1020: <i>College Algebra with Applications</i>	Fall 2014

## Employment History

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Winston-Salem State University – Winston-Salem, NC <i>Assistant Professor of Mathematics</i>	Fall 2021 – Present
Stemify – Farmington, CT <i>Independent Contractor (Mathematical Education Consultant)</i> Create multiple choice problem and solution banks for a variety of mathematical topics.	Summer 2020
COMAP, Inc. – Bedford, MA <i>Triage judge</i> Judge submissions to the Mathematical Contest in Modeling and the High School Mathematical Contest in Modeling.	Fall 2019 – Present
University of Connecticut – Storrs, CT <i>Teaching Assistant</i> Instruct undergraduate mathematics courses.	Fall 2015 – Present
Appalachian State University – Boone, NC <i>Teaching Assistant</i> Instruct introductory general education mathematics courses.	Fall 2014 – Spring 2015

Appalachian State University – Boone, NC Summer 2013 – Spring 2014  
*Instructional Assistant*

Lead study halls, provide supplemental instruction and materials, and write answer keys.  
Courses assisted include Calculus I, II and Techniques of Proof.

Appalachian State University University Tutoring Services – Boone, NC 2012 – 2014  
*University Tutoring Services Lab General Math Tutor*  
*General Math Help Lab Tutor*

Appalachian State University – Boone, NC 2012  
*Coach – High Country Robotic Camp for Grades 6 - 12*  
*Coach – ASU Math Camp*

## Professional Organizations

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Member – Association of Symbolic Logic	August 2017 – Present
Member – American Mathematical Society	November 2014 – Present
Member – Pi Mu Epsilon	April 2014 – Present
Member – Phi Kappa Phi	March 2013 – Present

## Awards and Scholarships

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Doctoral Dissertation Fellowship	2020
Louis J. De Luca Outstanding Teaching Assistant Award	2019
Chancellor's Fellowship	Fall 2014 – Spring 2015
Outstanding Graduate Presentation Award	2014
North Carolina Teaching Fellows Scholarship	Fall 2011 – Spring 2013
Mary Cain Academic Scholarship	Fall 2012 – Spring 2013
GEAR UP Tuition Assistance Scholarship	Fall 2011 – Spring 2015
Dean's List, Appalachian State University	Fall & Spring 2011 – 2013
Chancellor's List, Appalachian State University	Fall & Spring 2011 – 2013
Dean's List, Caldwell Community College	Summer 2012