

Noah A. Hughes

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Education:

University of Connecticut Storrs, Connecticut
Expected date of graduation: May 2020 GPA: N/A
Pursuing a Ph.D. in Mathematics.

Appalachian State University Boone, North Carolina
Attended August 2014 - May 2015 GPA: 4.00
M.A. in Mathematics.

Appalachian State University Boone, North Carolina
Attended August 2011 - May 2014 GPA: 4.00
B.S. in General Mathematics with university and departmental honors. *Summa cum laude*.
Recipient of the Most Distinguished Graduate in Mathematics award.

Carnegie Mellon University Pittsburgh, Pennsylvania
Attended the Summer School in Logic and Formal Epistemology during the summer of 2014.

Research:

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

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. In revision.

Reverse Mathematics: Calibrating Logical Strength in Mathematics, Honors Undergraduate Thesis, Appalachian State University, 2014.

Invited Presentations:

Marriage problems and reverse mathematics
STEM Seminar – Appalachian State University – January 2015

Reverse mathematics and marriage problems with unique solutions
Ghent University – Ghent, Belgium – March 2014

Contributed Presentations:

Reverse mathematics and marriage problems: a few new results
ASU Mathematical Sciences Colloquium Series – Appalachian State University – March 2015

Marriage problems and reverse mathematics

Mathematical Association of America - South Eastern Section Spring Meeting – University of North Carolina Wilmington – March 2015

Reverse mathematics and marriage problems with unique solutions

Joint Mathematics Meetings – San Antonio, TX – January 2015

Reverse mathematics and marriage problems

UNCG Regional Mathematics and Statistics Conference – University of North Carolina Greensboro – November 2014

Received the Outstanding Graduate Student Presentation award.

Transversal theory and reverse mathematics

National Conference on Undergraduate Research – University of Kentucky – Lexington, KY – April 2014

An Introduction to Reverse Mathematics

ASU Department of Mathematical Sciences Colloquium Series – Appalachian State University – March 2014

Permutations and Weyl Groups: Seeing Irreducibility in Cycle Structures

North Carolina Honors Association Conference – Appalachian State University – October 2013

Permutations and Weyl Groups: Seeing Irreducibility in Cycle Structures

ASU Department of Mathematical Sciences Colloquium Series – Appalachian State University – April 2013

Permutations and Weyl Groups: Seeing Irreducibility in Cycle Structures

Mathematical Association of America - South Eastern Section Spring Meeting – Winthrop University – March 2013

Permutations and Weyl Groups: Seeing Irreducibility in Cycle Structures

UNCG Regional Mathematics and Statistics Conference – University of North Carolina Greensboro – November 2012.

Math Contests - What is the Point?, with Eric Marland, Gregory S. Rhoads, and Faith Miller

North Carolina Council of Teachers of Mathematics 2012 Annual Conference – Greensboro, NC – October 2012.

Teaching Experience:

Spring 2015

MAT 1020: *College Algebra with Applications* – teaching assistant

Fall 2014

MAT 1020: *College Algebra with Applications* – teaching assistant

Teaching assistant duties: prepare all course materials, including course syllabi; plan and give all lectures; prepare, administer and grade all assignments, projects and examinations; assign final grades.

Employment History:

Fall 2015 – Present

University of Connecticut – Storrs, NC

Teaching assistant

Instruct undergraduate mathematics courses.

Fall 2014 – Spring 2015

Appalachian State University – Boone, NC

Teaching assistant

Instruct introductory general education mathematics courses.

Summer 2013 – Spring 2014

Appalachian State University – Boone, NC

Instructional assistant

Attend lecture, lead study halls, provide supplemental instruction and materials, as well as write answer keys.

- Calculus I with Terry Anderson
- Calculus II with Witold A.J. Kosmala
- Calculus I with Vicky W. Klima
- Calculus II with William J. Cook

Summer 2012 – Spring 2014

Appalachian State University University Tutoring Services – Boone, NC

University Tutoring Services Lab general math tutor

General Math Help Lab tutor

July 2012

Appalachian State University – Boone, NC

ASU Math Camp coach

July – August 2012

Appalachian State University High Country Robotic Camp for Grades 6 - 12 – Boone, NC

Coach

Computer Skills:

Maple, $\text{\LaTeX} 2_{\epsilon}$, Microsoft Office

Professional Organizations:

Member – Association of Symbolic Logic

November 2014 – Present

Member – Pi Mu Epsilon

April 2014 – Present

Member – Phi Kappa Phi

March 2013 – Present

National Society of Collegiate Scholars

January 2012 – Present

Member – Mensa

February 2012 – February 2014

Awards and Scholarships:

Chancellor's Fellowship

Fall 2014 – Spring 2015

North Carolina Teaching Fellows Scholarship

Fall 2011 – Spring 2013

Mary Cain Academic Scholarship

Fall 2012 – Spring 2013

GEAR UP Tuition Assistance Scholarship
Dean's List, Appalachian State University
Chancellor's List, Appalachian State University
Dean's List, Caldwell Community College

Fall 2011 – Spring 2015
Fall & Spring 2011 – 2013
Fall & Spring 2011 – 2013
Summer 2012

Extra Curricular Activities:

Appalachian State University Math Club

August 2014 – Present

Appalachian Educators

August 2011 – May 2013

Appalachian State University Swing Dance Club

September 2011 – Present

- Vice President: January – December 2012
- Instructor: January 2012 – May 2014