

Carolyn Marie Yarnall

Wabash College
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Education

Ph.D. in Mathematics, University of Virginia	<i>May 2013</i>
Master of Science in Mathematics, University of Virginia	<i>May 2010</i>
Bachelor of Science in Mathematics, University of San Diego Cum Laude	<i>May 2008</i>

Employment

Visiting Assistant Professor, Wabash College	<i>Fall 2013 - present</i>
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Teaching Experience - Wabash College

Topics in Contemporary Mathematics	<i>Spring 2015</i>
Calculus I	<i>Fall 2013, Spring 2014, Fall 2014</i>
Calculus II	<i>Spring 2014, Fall 2014, Spring 2015</i>
Linear Algebra	<i>Fall 2013, Fall 2014</i>
Abstract Algebra	<i>Spring 2014, Spring 2015</i>
Independent Study in Algebraic Topology	<i>Fall 2014</i>

Teaching Experience - University of Virginia

Applied Calculus I	<i>Fall 2009, Spring 2010, Spring 2013</i>
Applied Calculus II	<i>Spring 2011</i>
Calculus I	<i>Fall 2010, Fall 2011</i>
Calculus II	<i>Spring 2012</i>
Calculus III	<i>Summer 2013</i>

Recent Invited Talks

Purdue University Topology Seminar

October 2014

Title: Equivariant Stable Homotopy Theory and the Slice Filtration.

Huntington University Senior Seminar

September 2014

Title: What you can do with a degree in mathematics.

Wabash College Math Colloquium

September 2014

Title: Cake Cutting and Rent Division.

JMM Special Session in Homotopy Theory

January 2014

Title: The Slice Tower and Suspensions

IUPUI Modern Analysis & Geometry Seminar

November 2013

Title: The Slice Tower of Suspensions of $H\mathbb{Z}$

Univeristy of Kentucky Topology Seminar

October 2013

Title: The Slice Tower of Suspensions of $H\mathbb{Z}$

University of Kentucky Math Club

October 2013

Title: Linear Algebra and Error-Correcting Codes

Research Interests

Algebraic Topology

Equivariant Stable Homotopy Theory

Applications of Discrete Mathematics to Social Science

Voting Theory, Fair Division Algorithms

Publications

A model structure on $G\text{Cat}$, with Anna Marie Bohmann, Kristen Mazur, Angelica M. Osorno, Viktoriya Ozornova, and Kate Ponto, to appear in AMS Contemporary Mathematics Series, Proceedings of the 2013 Women in Topology Workshop, arXiv:1311.4605.

The Slices of $S^n \wedge H\mathbb{Z}$ for Cyclic p -Groups. In preparation.

Product Societies, with Kristen Mazur, Tia Sondjaja, and Matthew Wright. In preparation.

Professional Development

Project NExT

Summer 2014 - present

Accepted to the MAA affiliated program in New Experiences in Teaching. Participated in a workshop on teaching and academic related professional development topics.

Mathematical Research Communities

June 2014

Accepted to the AMS sponsored MRC in Algebraic and Geometric Methods in Applied Discrete Mathematics as a part of the Combinatorial Topology in the Social Sciences group.

Women in Topology Workshop

August 2014

Participated as a part of the model categories group.

Teaching and Learning in Higher Education

Fall 2012

Participated in a a semester-long advanced pedagogy seminar at the University of Virginia.

Service

Crawfordsville Middle School

November 2014

Careers in STEM presentation to a group of middle school girls.

Wabash College Community Service Committee

Fall 2014 - present

Wabash College Math Club, Coadvisor

Fall 2013 - present

Wabash College Basic Skills Exam Coordinator

Fall 2013 - present

Awards and Recognition

Project NExT Fellow

Summer 2014 - present

A selective professional development program for recent math Ph.Ds

Graduate Teaching Award, Honorable Mention

May 2013, May 2012

Awarded by the UVA Math Department.

University of Virginia, Dissertation Fellowship

Fall 2012

Phi Beta Kappa

Inducted Spring 2008

Professional Memberships

American Mathematical Society

Summer 2014 - present

Mathematical Association of America

Fall 2013 - present

References

Professor Michael Hill
Department of Mathematics
University of Virginia
mikehill@virginia.edu

Professor Francis Su
Department of Mathematics
Harvey Mudd College
su@math.hmc.edu

Professor William Turner (Teaching)
Department of Mathematics & CS
Wabash College
turnerw@wabash.edu