

# Welcome to the Homepage of ***Department of Mathematical Sciences***







The Department of Mathematical Sciences (DOMS) is a community of mathematicians and mathematical statisticians. We offer degrees at the Bachelor's, Master's and Doctoral level. Thus, besides our faculty and post-doctoral visitors, our community includes a large and valuable cadre of hard-working and talented undergraduate and graduate students.

At the undergraduate level, we have two kinds of degrees: general degrees for majors in **Mathematical Sciences** are labeled **Bachelor of Arts (BA)**, while our more intensive undergraduate degrees are labeled **Bachelor of Science (BS)**. There are both mathematics tracks and actuarial science tracks within both degrees. For more details, see the page on the undergraduate programs. A minor in mathematics is also possible.

At the graduate level, we have the **PhD in Mathematical Sciences**, **Master of Arts (MA) in Mathematics**, and **Master of Arts (MA) in Statistics** degrees. We cooperate with the Department of Teaching, Learning and Educational Leadership in their Master of Arts in Teaching (MAT) degree for future high school teachers. There is also a combined five-year BA/MAT degree. For more details, see the page on the graduate programs.

While our highest degree is a PhD “in Mathematical Sciences”, a significant number of our doctoral dissertations are written on research topics in mathematical statistics.

All faculty members and post-doctoral visitors are active researchers. The main areas of concentration in the department are: **Algebra, Analysis, Combinatorics, Geometry/Topology** and **Statistics**.

Read the page on Graduate Programs for information about **financial support for graduate students**.

*The photos above were taken by Jinghao Li, Ph.D. 15'.*

## Latest Department News

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### BUGCAT 2018 to be held in Binghamton

The 11th Annual Binghamton University Graduate Conference in Algebra and Topology (BUGCAT) is to be held at Binghamton University, October 13th and 14th, 2018.

This year's featured keynotes are Profs. William Menasco from University at Buffalo, Ruth Charney from Brandeis University, Jean-François Lafont from the Ohio State University and Nataša Jonoska from University of South Florida.

Deadline for registration is October 5th and abstracts for talks should be also submitted by this day. Registration can be done through the conference website.

Visit the conference website and the conference Facebook Page, or e-mail [gradconf@math.binghamton.edu](mailto:gradconf@math.binghamton.edu) for more information.

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### The 2018 Peter Hilton Memorial Lecture

Prof. Vaughan Jones from Vanderbilt University will give the annual Peter Hilton Memorial Lecture for 2018. The lecture will be given on Thursday April 12, 2018 at 3:00 p.m. (the location is TBD). Vaughan Jones is Stevenson Distinguished Professor of Mathematics, at Vanderbilt University. For more see: [https://en.wikipedia.org/wiki/Vaughan\\_Jones](https://en.wikipedia.org/wiki/Vaughan_Jones)

Peter Hilton Memorial Lecture is an annual event in memory of Peter Hilton, 1923-2010, a member of the Binghamton Mathematics Department from 1982 until his death in November 2010. He was an internationally famous member of the mathematical community. His contributions included a major role in the code-breaking operation at Bletchley Park during World War II, where he worked with Alan Turing, and important research

contributions to topology, homological algebra, elementary number theory, combinatorics, and polyhedral geometry, as well as mathematics education at all levels. A collection of memoirs by people who knew Peter has been published in the December 2011 issue of Notices of the American Mathematical Society.

Peter gave a talk to the department about his wartime codebreaking. You can watch it [here](#).

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*Suggestions and comments can be sent to [webmaster@math.binghamton.edu](mailto:webmaster@math.binghamton.edu)*

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