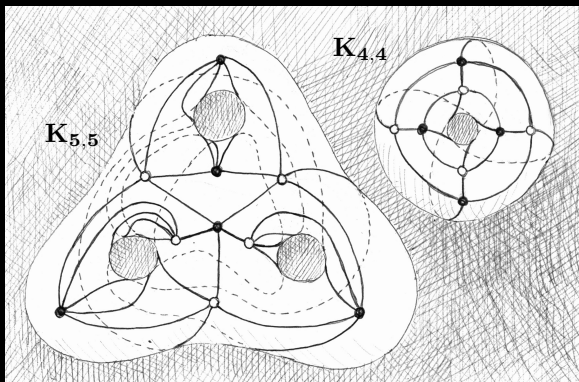


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## Discrete Mathematics Faculty

- **Ghidewon Abay-Asmerom** *topological graph theory, graph products*, Ph.D. Western Michigan University
- **Moa Apagodu** *enumerative combinatorics, algorithmic proof methods*, Ph.D. Rutgers University
- **Neal Bushaw** *extremal graph theory*, Ph.D. University of Memphis
- **David Chan** *discrete dynamical systems*, Ph.D. North Carolina State University
- **Dan Cranston** *structural graph theory, graph coloring, algorithms*, Ph.D. U. Illinois Urbana-Champaign
- **Richard Hammack** *algebraic graph theory*, Ph.D. UNC Chapel Hill
- **Glenn Hurlbert** (Dept. Chair) *graph theory, extremal set theory, combinatorics, combinatorial optimization*, Ph.D. Rutgers University
- **Candace Kent** *difference equations*, Ph.D. University of Rhode Island
- **Craig Larson** *chemical graph theory, independence, machine conjecturing*, Ph.D. University of Houston
- **Dewey Taylor** *graph theory, algebraic monoids*, Ph.D. North Carolina State University



**Virginia Commonwealth University** enrolls over 32,000 students on two campuses—the Monroe Park Campus, and the Medical College of Virginia Campus—in Richmond, Virginia, a city with a rich history and a lively music, arts and cultural scene.

Monroe Park Campus is part of a historic district near downtown Richmond. The Department of Mathematics and Applied Mathematics is housed in Grace E. Harris Hall, the building in the lower center of this photograph.



The Department, in conjunction with the Department of Statistical Sciences and Operations Research, offers programs leading to the master's and Ph.D. degrees.



Campus center (above) and academic buildings (right) are within an easy walking and biking distance from vibrant residential neighborhoods.

The campus is surrounded by many restaurants, clubs, theaters, museums and galleries. Nearby, the James River offers outstanding recreational opportunities and natural beauty.

Virginia Commonwealth University

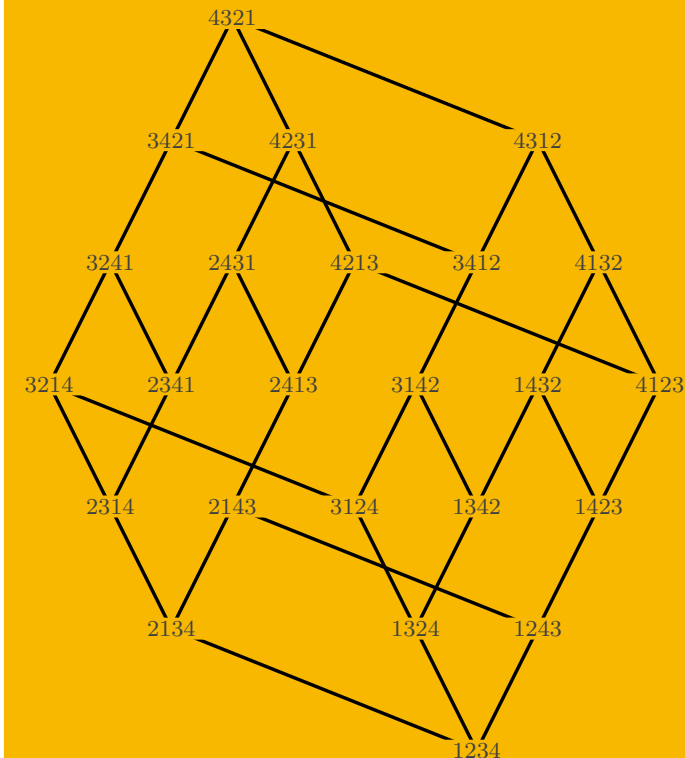
Department of Mathematics and Applied Mathematics  
1015 Floyd Avenue — Richmond, Virginia 23284  
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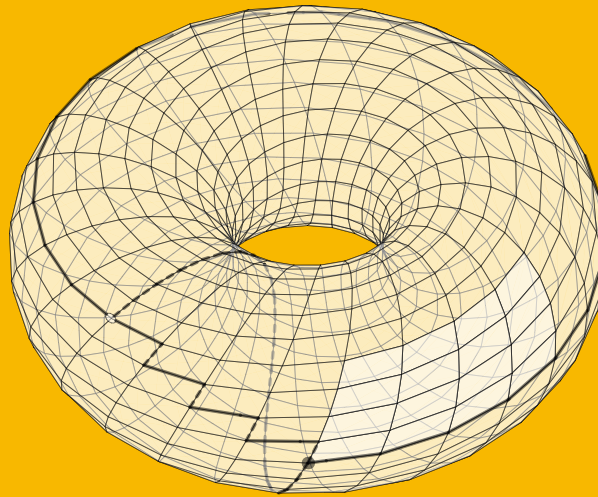
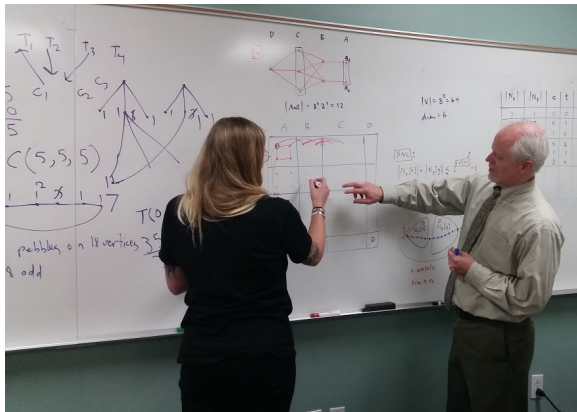
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VIRGINIA COMMONWEALTH UNIVERSITY

The Department of Mathematics and Applied Mathematics and the Department of Statistical Sciences and Operations Research jointly offer a Ph.D. in **Systems Modeling and Analysis**. This program fosters the development of mathematical skills that model and analyze real-world systems. Faculty and graduate students collaborate to extend knowledge in mathematics, science, medicine, business and engineering. The continued development of operations research, statistics, discrete mathematics and applied mathematics is essential for scientific advancement in the 21st century.

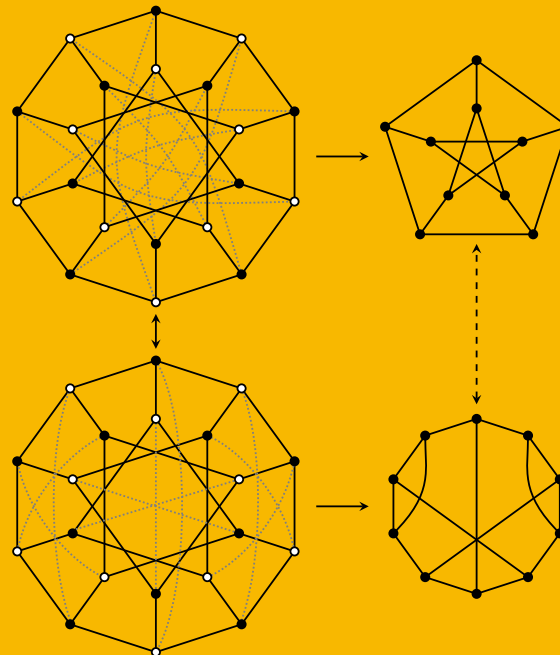
Doctoral students advance the theoretical understanding of mathematics and expand the frontiers of knowledge through original, relevant research involving complex systems arising from real, contemporary problems facing our world.

The Department of Mathematics and Applied Mathematics consists of 22 professors, all committed to excellence in research and teaching. It is especially strong in discrete mathematics, with nearly half of its faculty specializing in discrete mathematics, combinatorics or graph theory.



In addition to a wide range of classes, the department offers colloquia and weekly seminars in the areas of discrete mathematics, analysis and logic, and mathematical biology. Ongoing research connections exist between Mathematics and the Schools of Medicine, Business and Engineering (Computer Science).

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### Graduate Teaching Assistantships

Each year the department offers a number of graduate assistantships available for full-time graduate students. These carry a stipend as well as remission of tuition. As a GTA, you will be part of an energetic faculty highly committed to excellent teaching and research. Contact the Program Director for information on Graduate Teaching Assistantships. He is happy to answer any question you may have about the program.

### Program Director

Dr. Paul Brooks  
Virginia Commonwealth University  
Statistical Sciences and Operations Research  
1015 Floyd Ave.  
P.O. Box 842014  
Richmond, VA 23284-2014

[sysmphd@vcu.edu](mailto:sysmphd@vcu.edu)  
804-828-1301

