

VCU Discrete Mathematics Seminar

Theory Development for Frankl's Conjecture

**Christopher Flippen
(VCU)**

Wednesday, April 12
1:00-1:50 EDT

In person! in 4145 Harris Hall, and Zoom @

<https://vcu.zoom.us/j/92975799914>
password=graphs2357



The most common statement of Frankl's Conjecture is that for every finite family of sets closed under the union operation, there is some element that belongs to at least half of the sets in the family. Despite its apparent simplicity, Frankl's conjecture has remained open and highly researched since its first mention in 1979. After discussing the conjecture's spread throughout the world and various branches of discrete mathematics, I will discuss the various equivalent formulations of the conjecture and currently open methods of trying to attack it. I will then explain the approach Dr. Craig Larson and I have used to study the problem along with some of our results and open questions.

For the DM seminar schedule, see:

<https://go.vcu.edu/discrete>