

Dr. Mihai Caragiu

Undergraduate Research and Capstone Projects

Major objectives in conducting undergraduate research: **building a student's CV** through

- *conference presentations;*
- *research publications;*
- *helping students participate in REUs;*
- *writing an intellectually rewarding capstone paper.*

Why should you consider to join my undergraduate research program:

- **Eight student-faculty research publications published in peer-reviewed journals**, some of them being cited in major research journals and others being featured in the Council for Undergraduate Research display "*Undergraduate Research Highlights*";
- **33 student presentations at state, regional or national mathematics meetings;**
- **3 prizes obtained by my students presenting posters at the National Poster Competition for Undergraduate Research** (joint AMS/MAA meetings);
- A significant number of my students participated in summer REUs and were accepted in programs of graduate studies in Mathematics (one of them was accepted by six schools!)
- **OK in principle with any topic/problem** (won prizes in major problem solving competitions as an undergraduate; former member of an International Math Olympiad team);
- **Established research topics:** *number theory, prime numbers, sequences, Fibonacci numbers, applied math (traffic flow theory), cellular automata, quasi-randomness, abstract algebra, geometry.*