# CCSU
## DEPARTMENT OF MATHEMATICAL SCIENCES

# COLLOQUIUM

Friday, October 25
3:00 – 4:00 PM
Maria Sanford, Room 101

## RIEMANN'S HYPOTHESYS, PART 2

# MARIAN ANTON

### CENTRAL CONNECTICUT STATE UNIVERSITY

**Abstract:** This talk is the second of a series of two lectures on Riemann's Hypothesis that are accessible to students. In the first lecture, we showed how Riemann's Hypothesis is related to counting primes on a number line. In the second lecture, we show how an analogue of Riemann's Hypothesis is connected to counting points of an algebraic curve over a finite field. This analogue was proved in more generality by various mathematicians as part of Weil's conjectures. The relation with the original Riemann's Hypothesis remains elusive and constitutes a component of current research.