CCSU

DEPARTMENT OF MATHEMATICAL SCIENCES

COLLOQUIUM

Friday, December 6
3:00 – 4:00 PM
Maria Sanford, Room 101

THE CURRENT STATE OF THE TWIN PRIME CONJECTURE

MEGAN LUNDGREN

(MA in Mathematics Thesis Presentation)

CENTRAL CONNECTICUT STATE UNIVERSITY

Abstract: The Twin Prime Conjecture, that there are infinitely many pairs of primes at distance two, has eluded number theorists for over one hundred years. Methods in analytic number theory have been used to prove a related conjecture, the Bounded Gaps Conjecture, which states that there are infinitely many pairs of consecutive primes that are at the same distance from each other.

In this talk research related to the Twin Prime Conjecture will be explored, with a focus on modern advancements in the topic.