D. A. Goldston and Caroline Turnage-Butterbaugh* (cturnageb@carleton.edu). Small gaps between zeros of the Riemann zeta-function.

In this talk I will discuss recent joint work with Dan Goldston concerning the vertical distribution of zeros of the Riemann zeta-function, denoted \( \zeta(s) \). In particular, we improve on previous results by proving, under the assumption of the Riemann Hypothesis, that there are infinitely many zeros of \( \zeta(s) \) whose differences are smaller than 0.50412 times the average spacing. (Received July 03, 2019)