



## Mathematics and CS Seminar

# Negative moments of the Riemann zeta function

**Alexandra Florea**

UCI

Host: Tim Browning

I will talk about the negative moments of the Riemann zeta function, both continuous and discrete, based on joint works with Bui, Keating and Milinovich. I will explain how to obtain progress towards a conjecture of Gonek on negative moments, when the shift of the negative zeta function is "small" (going to 0 with  $t$ ). When we are integrating from  $T$  to  $2T$ , and the shift is less than  $1/(\log T)$ , we also discuss some conjectures based on random matrix theory and some heuristic number theoretic arguments which predict certain transition regimes in the asymptotic formulas.

**Wednesday, October 23, 2024 02:00pm - 04:00pm**  
Office Bldg West / Ground floor / Heinzl Seminar Room (I21.EG.101)



This invitation is valid as a ticket for the ISTA Shuttle from and to Heiligenstadt Station. Please find a schedule of the ISTA Shuttle on our webpage: <https://ista.ac.at/en/campus/how-to-get-here/> The ISTA Shuttle bus is marked ISTA Shuttle (#142) and has the Institute Logo printed on the side.