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Riad Masri and **Wei-Lun Tsai*** (w1tsai@math.tamu.edu), Department of Mathematics,
Mailstop 3368, Texas A&M University, College Station, TX 77843-3368. *The distribution of
Fourier coefficients of weak Maass forms.*

In this talk, I will discuss recent work in which we show that the normalized Fourier coefficients of weak Maass forms of prime level p become equidistributed on $[-1, 1]$ as p approaches infinity. For integral weight forms, these coefficients are equidistributed with respect to the Sato-Tate measure, while for half-integral weight forms, these coefficients are equidistributed with respect to the arc length measure. The proofs involve blend of geometric and analytic methods. This is joint work with Riad Masri. (Received January 18, 2020)