

**VENTOTENE INTERNATIONAL WORKSHOPS V
COUNTING PROBLEMS
VENTOTENE, 6-11 SEPTEMBER 2021**

EQUIDISTRIBUTION OF FLAT AND HYPERBOLIC SURFACES

Aaron Calderon

Yale University

Counting problems are intimately related to questions of equidistribution. In Anton's mini-course, we learned about similarities between counting square-tiled flat surfaces and counting curves on hyperbolic surfaces. In this talk, I will explain a template for translating equidistribution results for flat surfaces into equidistribution results for hyperbolic ones. As an example of this technique, we address Mirzakhani's "twist torus conjecture" about the equidistribution of hyperbolic surfaces built by gluing pairs of pants. This is joint work (in progress) with James Farre.