

## **abstract**

[Video of this lecture](#) COMPUTER SCIENCE AND DISCRETE MATHEMATICS I

Topic:

Speaker:

Affiliation:

Date:

Time/Room:

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I will describe the proof of the following surprising result: the typical billiard paths form the family of the most uniformly distributed curves in the unit square. I will justify this vague claim with a precise statement. As a byproduct, we obtain the counter-intuitive fact that the complexity of the test set is almost irrelevant. The error term is shockingly small, and it does not matter that we test uniformity with a nice set (like a circle or a square), or with an arbitrarily ugly Lebesgue measurable subset of the unit square.