Colloquium

University of Notre Dame
Department of Mathematics

Speaker: Marianna Csörnyei

University of Chicago

Will give a lecture entitled
Kakeya problem and related questions for planar rectifiable sets

Date: Wednesday, October 25, 2023
Time: 4:00 PM
Location: 129 Hayes-Healy Bldg

Departmental Tea: Tea in Room 257 (lounge in Hurley Hall) at 3:30 p.m.

Zoom URL: *https://notredame.zoom.us/j/99986867672?pwd=Z2NJRlZwL0dTR0Nxbk50NElHK0dNdz09*

Abstract:

A Kakeya set is a set of measure zero that contains a line segment in every direction. The classical Kakeya problem asks what the Hausdorff dimension of a Kakeya set is, it is conjectured that in ${\mathbb R}^n$ it must have dimension n. This is known to be true in dimension 2. In the talk I will discuss variants of this problem, and some interesting results, when the line segment is replaced by a rectifiable curve.

Marianna Csörnyei - University of Chicago