

# RAINICH LECTURE SERIES

APRIL 11-13, 2023

**Rahul Pandharipande**  
ETH Zürich



## Cycles on Moduli Spaces: Curves

Tuesday, April 11 | 4:00 PM | 1360 East Hall

*Reception to follow in Mathematics Upper Atrium*

## Cycles on Moduli Spaces: Abelian Varieties

Wednesday, April 12 | 5:00 PM | 4096 East Hall

## Cycles on Moduli Spaces: K3 Surfaces

Thursday, April 13 | 4:00 PM | 4096 East Hall

**Abstract:** In these lectures, I will discuss results, conjectures, and counterexamples related to the cohomology and algebraic cycle theory of three fundamental moduli spaces in algebraic geometry: the moduli of curves, the moduli of K3 surfaces, and the moduli of abelian varieties. The lectures will emphasize various beautiful connections between these spaces. The goal will be to present an up-to-date view of the structure of the tautological classes without assuming any previous knowledge of the study of these moduli spaces.

