

# A BRIDGE BETWEEN WORLDS

## The Hilbert Transform

Undergraduate Math Club  
CORNELL UNIVERSITY



### SPEAKER

Christopher Strohmeier

### ABSTRACT

For nearly two centuries, countless analysts have dedicated their lives to a program which, broadly speaking, seeks to understand the ways in which the

Fourier series of a given function captures the properties of said function. Moreover, the problem of understanding the boundary values of holomorphic functions has also played an important role in analysis. In this talk, we will explore a striking connection between these two ostensibly unrelated pieces of mathematics via the Hilbert transform.

**NOV 28 at 4:45pm**  
**Malott 532 ★ Refreshments**