Department of Mathematics
University of Notre Dame

GRADUATE STUDENT TOPOLOGY SEMINAR

Guest Speaker: Audriana Houtz
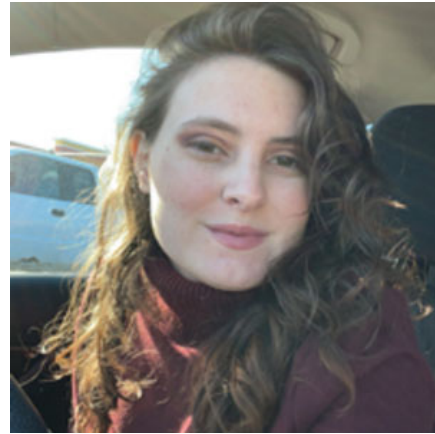**University of Notre Dame**

Date: Friday, September 8, 2023
Time: 11:30 AM
Location: 258 Hurley Hall
Zoom URL: NA

Lecture Title:
The Torelli Group

Abstract

The primary topic of this semester is the Torelli group. Our first talk will encompass three sections: (1) mapping class groups, (2) the symplectic representation, and (3) basics of the Torelli group. Under mapping class groups, we will cover the algebraic intersection pairing, Dehn twists, and generation of the mapping class group. Under the symplectic representation, we will cover the symplectic basis, symplectic group, and symplectic representation. Under the basics of the Torelli group, we will discuss some basic examples and properties to lay the foundation for talks in the coming weeks.

Audriana Houtz - University of Notre Dame