# Annie Holden - University of Notre Dame

# Department of Mathematics University of Notre Dame

## GRADUATE STUDENT TOPOLOGY SEMINAR

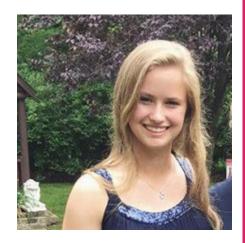
**Guest Speaker: Annie Holden University of Notre Dame** 

Date: Friday, September 22, 2023

**Time:** 11:30 AM

Location: 258 Hurley Bldg

**Zoom URL:** NA



### Lecture Title:

### The Johnson Homomorphism

### Abstract

We explore the Torelli group  $\mathcal{I}(S_g^1)$  of a genus g surface with one boundary component. We motivate and construct the Johnson homomorphism  $\tau: \mathcal{I}(S_g^1) \to \wedge^3 H_1(S_g^1; \mathbb{Z})$ .