

***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  $\tau : \mathcal{I}(S_g^1) \rightarrow \wedge^3 H_1(S_g^1; \mathbb{Z})$ .