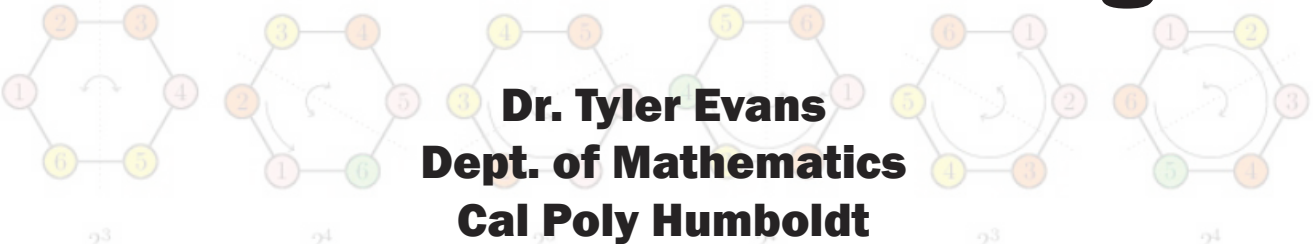


**DEPARTMENT OF MATHEMATICS**  
**Spring 2024 MATH Colloquium Series**



# **Never Underestimate a Theorem That Counts Something!**



**Dr. Tyler Evans**  
**Dept. of Mathematics**  
**Cal Poly Humboldt**

The title of the talk is a quote from Fraleigh's "A First Course in Abstract Algebra." One of the theorems the author is referring to is Burnside's (Counting) Lemma. In this talk, we will formulate a statement of Burnside's lemma using a classic counting problem to illustrate the technical details. We will then discuss a counting problem Professor Yanosko proposed to me at a colloquium tea earlier this semester. We will discuss my two failed attempts to solve the problem using Burnside, and we will conclude by outlining Professor Y's successful application of the same result. The talk will be accessible to anyone with an interest in mathematics, and students are particularly encouraged to attend.

**Apr. 11, 2024**  
**THURSDAY**

**4:00 PM**  
**BSS#166**

**FOR MORE INFO GO TO [HTTPS://MATH.HUMBOLDT.EDU/GET-INVOLVED/MATHEMATICS-COLLOQUIUM](https://math.humboldt.edu/get-involved/mathematics-colloquium)**

**WE CORDIALLY INVITE YOU TO THE PRE-COLLOQUIUM TEA IN BSS#312  
AT 3:30 PM**