



Department of  
Mathematical Sciences

# Colloquium

Dr. David Dumas

Professor of Mathematics

## University of Illinois-Chicago

Friday,  
November 12th,  
2021 @ 2:00pm

Hybrid online and  
in-person



**Dr. David  
Dumas**

UW-Milwaukee  
Department of  
Mathematical Sciences

EMS Building, Room E403  
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## Geometry of surface group homomorphisms

The space of homomorphisms from the fundamental group of a compact surface to a Lie group is a remarkably rich and versatile object, playing a key role in mathematical developments spanning disciplines of algebra, analysis, geometry, and mathematical physics. In this talk I will discuss and weave together two major threads of research within this larger story: The study of manifolds that are obtained from surface group homomorphisms by taking quotients of symmetric spaces (the “inside view”) or domains in flag varieties (the “outside view”). This discussion will start with classical objects—hyperbolic structures on surfaces—and continue into topics of ongoing research.

**This event will be held in-person at EMS, Room E495 and streamed online via. Microsoft Teams.**

**Link to online event: <https://bit.ly/3m65sBt>**



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