

# **The World of Mathematics and Statistics**

SWARTHMORE COLLEGE • DEPARTMENT OF MATHEMATICS AND STATISTICS • COLLOQUIUM SERIES 2020-2021

## **Guest Lecture and Q&A**



### **Federico Ardila**

San Francisco State University  
& Universidad de los Andes

### **Geometry, Robots, and Society**

How do we move a robot efficiently from one position to another? To answer this question, we understand the map of all possible positions of the robot, using techniques from geometry and combinatorics. We also face important ethical questions that we cannot ignore: What's the role of mathematicians and scientists in building a more just and equitable society?

*\*credit to the President's Fund for Racial Justice*

**Friday, January 22, 2021**

Lecture: 1:00-1:45pm (EST)

Q&A: 1:45-2:00pm (EST)

Coffee hour: 2:00-3:00pm (EST)

zoom: <https://swarthmore.zoom.us/j/89953593777>