



The Math/Stats Colloquium  
Department of Mathematics and Statistics  
San José State University



## Diego Ricciotti

Sacramento State

*Random Games and Differential Equations*

MAR 17, 2021, VIA ZOOM

**Abstract:** We explore how random walks and tug-of-war games are connected to certain differential equations. In particular, we will focus on the Laplace and  $p$ -Laplace equations, which play a significant role in the physical sciences and in several areas of mathematics for their numerous applications and interesting theoretical properties.

*Background:* Multivariable calculus (Calculus III).

**About the speaker:** Diego Ricciotti received his PhD in mathematics from the University of Pittsburgh and is an Assistant Professor at Sacramento State University. His current research focuses on regularity theory for subelliptic PDEs and their connections to stochastic processes.

COLLOQUIUM BROADCAST VIA ZOOM, 3PM PACIFIC/6PM EASTERN  
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For our full schedule, see: <http://www.timhsu.net/colloq/>