



**POLITECNICO
DI TORINO**



Dipartimento di
Scienze Matematiche
G. L. Lagrange

ECCELLENZA 2018 • 2022

Tuesday the **02 April 2019** at 10:00

Politecnico di Torino, DISMA, Aula Buzano (third floor)

Mason PEMBER

FWF Research Fellow at TU Wien

Discrete differential geometry

Prof. Emilio Musso introduces the seminar

Abstract

Discrete differential geometry (DDG) has been an area of intense research over the past three decades. Its appeal stems largely from its applications in various non-mathematical fields such as architecture and computer graphics. The main aim of DDG is to find discrete counterparts to objects of smooth differential geometry, e.g., surfaces with special curvature properties.

In this talk, Dr Pember will elucidate some of these concepts by focusing on a particular smooth class of surfaces called Omega-surfaces. He will then demonstrate an approach to discretising this class which focuses on retaining the integrable nature of these surfaces.

Biography

Mason Pember earned his PhD at the University of Bath under the supervision of Professor Francis Burstall. He was then awarded a JSPS postdoc fellowship at Kobe University and is currently a postdoc at Vienna University of Technology. His primary research concerns integrable classes of surfaces, such as Omega-surfaces of Lie sphere geometry, and their discretisations.

Save the date for the next event: April 17, 2019

More info on www.polito.it/disma-excellence