5TH INTERNATIONAL MINI-SYMPOSIUM

ON

MOLECULAR MACHINE LEARNING

JANUARY 19[™] 2023 3:00 PM (UTC +1)

Núria López Institut Català d'Investigació Química, Spain **Kim Jelfs** *Imperial College London*, UK **Tim Cernak** University of Michigan, US Sarah Reisman California Institute of Technology, US

Frank Glorius University of Münster, Germany

Speakers





hine learning. She carried out her PhD at University College Londc a post-doc a the University of Liverpool.



of Medicinal Chemistry at the University of Michigan in Ann Arbor as ar Assistant Professor. The Cernak Lab is exploring an interface o chemical synthesis and data science. Tim is a co-Founder of Entos, Inc



Schedule: Thursday, January 19th 2023

3:00 pm Introduction

3:10 pm Núria López

3:40 pm Kim Jelfs

Ve have been developing computational software towards assisting in the discovery of molecular naterials with targeted structures and properties. This includes the development of software to utomate the assembly, structure and property prediction, including the use of an evolutionary igorithm to explore the possible phase space, and machine learning to accelerate predictions. We fork closely with experimental collaborators and so considering the synthesis of the materials is entral to our approach, including a recently development machine learning to model that predicts a hemist's opinion on the ease of synthesis of the material.

4:10 pm Break

4:30 pm **Tim Cernak**

Information Rich Retrosynthesis Tactics

5:00 pm Sarah Reisman

tic Organic Chemistry elligence (A) has modernized the scientific method, bringing predictive power to fields in age of disciplines. Ofganic chemistry has been relatively slow to adopt machine learning









Starting Times Beijing 9:00 pm New Delhi 6:30 pm 3:00 pm Paris 2:00 pm London New York 9:00 am

Please find the registration and

Zoom invitation using the following link:

www.uni-muenster.de/Chemie.oc/glorius/symposium_mml.html