

CGD Seminar Series

Deep Unsupervised Learning for Climate Informatics

Claire Monteleoni

University of Colorado, Boulder

Date: Tuesday 2 March, 2021

Time: 3pm -4pm MT

For Zoom information, please contact

Tracy Baker tbaker@ucar.edu

For live stream information, visit the

CGD Seminar Webpage

ABSTRACT

Despite the scientific consensus on climate change, drastic uncertainties remain. Crucial questions about regional climate trends, changes in extreme events, such as heat waves and mega-storms, and understanding how climate varied in the distant past, must be answered in order to improve predictions, assess impacts and vulnerability, and inform mitigation and sustainable adaptation strategies. Machine learning can help answer such questions and shed light on climate change. This talk will focus on our recent climate informatics research, in particular semi- and unsupervised deep learning approaches to studying rare and extreme events, and downscaling temperature and precipitation.

For more information, contact Tracy Baker | tbaker@ucar.edu | x1366