



UNIVERSITÀ
DEGLI STUDI
DI BRESCIA

Ciclo di seminari del Prof. Marco Tedesco
Lamont Doherty Earth Observatory, Columbia University

Telerilevamento della criosfera - Remote Sensing of the Cryosphere

1 - 9 Luglio 2024

Aula Riunioni e Aula Seminari del DICATAM, Università di Brescia, Via Branze 43

Lunedì 1 Luglio 14:00-16.00 – Aula Riunioni del DICATAM

*Remote sensing and the cryosphere. Electromagnetic properties of the cryosphere.
Remote sensing missions*

Martedì 2 Luglio 16:00-18.00 – Aula Seminari del DICATAM

Overview of applications: snow, sea ice, ice sheets, permafrost

Mercoledì 3 Luglio 10:00-12.00 – Aula Seminari del DICATAM

Remote sensing of snow, sea ice, ice sheets

Lunedì 8 Luglio 15:00-18.00 – Blab2

Remote sensing of permafrost

*Application of Unmanned Aerial Vehicles for measuring spectral properties of natural
surfaces: results from the Greenland Ice Sheets and hands-on exercise*

Martedì 9 Luglio 12:00-13.00 – Aula Seminari del DICATAM

*Dalla Groenlandia al Bronx: fusione delle calotte polari, innalzamento del livello del
mare e giustizia climatica*



Marco Tedesco is a Lamont Research Professor at the Lamont-Doherty Earth Observatory of Columbia University and Adjunct Scientist at the NASA Goddard Institute for Space Studies (GISS). He is also affiliated with the Data Science Institute, he is Affiliated professor at Sant'Anna School of Economics in Pisa, Italy and has been the Resident Scientist at the Columbia Business School for the past two years. He is a fellow of the Explorers Club and a member of the New York City Panel on Climate Change, Equity Working Group. Dr. Tedesco received his Laurea degree and PhD in Italy, from the University of Naples and the Italian National Research Council. He then spent five years as a postdoc and research scientist at NASA Goddard Space Flight Center. He moved to CCNY in 2008 as an Assistant Professor where he was promoted to Associate Professor in 2012. During his time at CCNY, he

founded and directed the Cryosphere Processes Laboratory and was a rotating Program Manager at the National Science Foundation between 2013 and 2015. In January 2016, he joined Columbia University. Dr. Tedesco's research focuses on the dynamics of seasonal snowpack, ice sheet surface properties, high latitude fieldwork, dendrochronology, global climate change, its implications on the economy and real estate and climate justice. Dr. Tedesco led more than 10 expeditions to Greenland and to Antarctica, beside fieldwork in many other places, including Iceland, Northern US, Canada, Italian Alps and more. He is the editor of the book "Remote Sensing of the Cryosphere" published by Wiley in 2015 and he is the author of the book "The hidden world of ice" originally published in 2018. The book has been translated in 7 languages and was selected by the Washington Post and by the National Geographic Traveler as one of the best 10 books of the year.

Il Prof. Marco Tedesco è stato invitato dal prof. Roberto Ranzi, Università di Brescia, Dipartimento di Ingegneria Civile, Architettura, Territorio, Ambiente e di Matematica, grazie ai fondi di Ateneo per le attività internazionali.