

Boulder Fluid and Thermal Sciences Seminar Series



Friday, October 11, 2019

12:15–1:15 PM (refreshments at 12:00)

MCEN Conference Rooms ECME 137A/B in the Engineering Center

University of Colorado, Boulder

How to Make Friends and Influence People with Open Science

Kyle Niemeyer

Assistant Professor, School of Mechanical, Industrial, and Manufacturing Engineering, Oregon State University

This talk will provide an overview of how to practice open science in your research: making your publications open access, archiving your data openly, and sharing your open-source research software. Open-science practices are important to ensure the results of research, and in particular publicly funded research, are accessible to all, to make findings reproducible and thus more convincing, and to magnify the impact of your work. Topics to be discussed include how and when to publish preprints or eprints; copyright and licensing issues; how, why, and where to archive your data; how, why, and where to release your software; how to cite data and software (and make yours easily citable); and tools to help make your work reproducible, including Jupyter notebooks. Finally, the talk will conclude with the benefits of doing all this (extra) open work.

Biography: Dr. Kyle Niemeyer is an Assistant Professor in the School of Mechanical, Industrial, and Manufacturing Engineering at Oregon State University. He received his PhD in Mechanical Engineering from Case Western Reserve University in 2013, after finishing his BS and MS in Aerospace Engineering there as well. Dr. Niemeyer's research interests include computational modeling of reacting and non-reacting fluid flows at various scales and levels of fidelity; analysis, reduction, and validation of chemical kinetic models; and GPU computing. He is also an ardent advocate of open science, and an Associate Editor in Chief of the Journal of Open Source Software.

