Jesse Capecelatro

Biography:

I am an Associate Professor in the Departments of Mechanical and Aerospace Engineering. My research and teaching are broadly under the realm of fluid mechanics, with an emphasis on turbulence, multiphase flow, and scientific computing. Applications include renewable energy, propulsion, and space exploration. Since March 2020, a significant portion of my research has been directed towards addressing the COVID-19 pandemic, including several outreach activities through the Natural History Museum emphasizing the role of fluid dynamics on disease transmission. I served as PI on a CoE Skunkworks initiative to quantify risk of airborne transmission in classrooms in preparation for the Fall 2021 semester. I am a recipient of the NASA Early Stage Innovations Award, NSF CAREER Award, ONR Young Investigator Award, and the ASME Pi Tau Sigma Gold Medal. I am currently a member of the Editorial Advisory Board for the Journal of Aerosol Science and have served on several international and national committees, including Chair of the APS Division of Fluid Dynamics Educational & Career Outreach Committee.

Position Statement:

I believe strongly that the College of Engineering should have a dedicated and consistent presence at the University level, especially in matters related to policy and other concerns that impact our faculty and students. Since joining U-M in 2016, I have served at the College and University level on several committees. I served on the Advanced Research Computing Advisory Team to guide policy for computing services on campus. During the first two years of the COVID-19 pandemic, I served on the COVID-19 Rapid Response Steering Committee as point-of-contact between Engineering faculty/staff and the University Health System. I was also a member of the Online Academic Integrity Committee to develop guidelines and tips for remote teaching. If elected to serve on the faculty senate, I will build upon these efforts and act as conduit between CoE faculty and the broader University. I am eager to receive input and opinions from all faculty within the department and educate the college on issues arising out of the senate.