

MATERIALS AND BIOMATERIALS SCIENCE AND ENGINEERING**Modelling biointerphases:
From the micro to molecular scales****ABSTRACT:**

In this seminar, I will provide an overview of the current research activities in the MECHANO3B[i]OLOGY Lab, from how the mechanical properties of model extracellular matrices, such as elasticity and viscoelasticity, influence cellular migration. I will touch on our efforts to model and characterize the surface of articular cartilage, and finalize by discussing our approaches to quantify the stickiness of *Vibrio cholerae*-inspired peptides for the development of wet adhesives.

BIOGRAPHY

Dr. Roberto C. Andresen Eguiluz is an Assistant Professor in the Department of Chemical and Materials Engineering at the University of California, Merced. He has a degree in Mechanical Engineering from the National Autonomous University of Mexico (UNAM), a Ph.D. in Materials Science and Engineering from Cornell University, and had postdoctoral appointments at the University of Illinois at Urbana-Champaign and the University of California, Santa Barbara. His research interests center on exploring how biomolecules in confinement regulate adhesion and lubrication.



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Refreshments: 1:45pm, Seminar: 2-3pm