

Georgios Moutsanidis

Assistant Professor

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Contact Information

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Education

PhD, Structural Engineering and Computational Science, University of California at San Diego, 2018
MS, Civil Engineering, University of Texas at Austin, 2014
Diploma, Civil Engineering, Aristotle University of Thessaloniki, 2012

Professional Experience

Post-Doctoral Research Associate, School of Engineering, Brown University, 2018-2019
Visiting Researcher, Los Alamos National Laboratory, 2017-2018

Research Interests

Professor Moutsanidis' research interests lie in the general area of computational mechanics, engineering, and sciences, and he works on the development of high-fidelity computational methods for the simulation of extreme events, such as Air-Blast-Structure Interaction (ABSI), hypervelocity impact, and fracture. He has developed a novel method for ABSI to evaluate the response of structures to terrorist attacks, that combines the state-of-the-art computational methods such as Isogeometric Analysis (IGA), Particle Methods, and Immersed Methods. He has developed novel phase-field approaches for brittle fracture under extreme conditions, and as a visiting researcher at Los Alamos National Laboratory (LANL) he worked on enhancing the capabilities of the Material Point Method (MPM). He has worked on various research projects and his work has been funded by AFOSR, LANL, and SNL.