



**Name:** Di Yang

**Department/College:** Mechanical Engineering

**Research Area:** Engineering Sciences

**Biography:**

Di Yang holds an interim appointment as Assistant Research Professor in the Department of Mechanical Engineering at University of Houston since January 2015. In Fall 2015 he will be appointed Assistant Professor. He received his B.S. degree in Theoretical and Applied Mechanics from University of Science and Technology of China in 2004. After then, he continued his graduate study at Johns Hopkins University, where he received his M.S. degree in Mechanical Engineering in 2009 and Ph.D. degree in Civil Engineering in 2010. From 2011 to 2014 he was a postdoctoral fellow at Johns Hopkins University. Professor Yang's area of research is focused on understanding and modeling hydrodynamic turbulence. He uses high performance computing as the primary tool for exploring the complex flow physics, and has over ten years of experience in computational fluid dynamics program development, parallel computing and scientific data visualization. His current research interests include direct numerical simulation and large-eddy simulation of turbulent flows, Reynolds-Averaged Navier-Stokes modeling of ocean Langmuir turbulence, atmospheric boundary layer flows over ocean waves and land terrain as energy resources, offshore wind farm dynamics and wind energy harvesting, upper ocean dynamics and turbulent dispersion of oil spills, near-field modeling of multiphase hydrocarbon plumes from subsea oil well blowouts, as well as light propagation in the ocean euphotic zone.