

Fan Liu, University of California, Santa Barbara, CA, for her project: *Radiocarbon constraints on organic carbon burial in tropical oceans offshore Papua New Guinea*.



Fan Liu is a 4th year PhD Candidate in the Department of Earth Science at UC Santa Barbara, advised by Dr. Gen Li. She is interested in the geological carbon cycle and particularly the dynamics of organic carbon in fluvial transport systems. Her current research focuses on the organic burial offshore tropical margins, using combined measurements of carbon isotopes and Ramped Pyrolysis/Oxidation technique. In her upcoming project, she will investigate the silicate weathering and sediment transport in New Guinea to develop a more complete carbon budget in conjunction with organic carbon burial.

Fan earned a Bachelor of Science in Geology from Nanjing University, China, before coming to the U.S. While in Nanjing, Fan studied carbon dioxide removal through mineral sequestration and developed a strong interest in geochemistry and Earth's carbon cycle. Outside of research, Fan enjoys reading, going to the beach, and practicing film photography.

With the generous support of the Howard and Jean Lipman Foundation, Fan will carry out radiocarbon measurements on tropical offshore core sediments to identify organic carbon pools of distinct reactivities and ages.