

Dr. Cristian Vargas

Professor Cristian Vargas is a biological oceanographer at the Faculty of Environmental Sciences of the Universidad of Concepcion in Chile, where he also serves as the Director of the *Center for the Study of Multiple-Drivers on Marine Socio-Ecological Systems (MUSELS)*. Since 2009 he has led a number of OA-related scientific programs in Chile and has been involved in the formation of the *Latin-American Ocean Acidification Network (LAOCA)*. Cristian is strongly connected with the national- international community and serves as a member of different working groups for governmental agencies, and at the Scientific Steering Group of the *International Ocean Carbon Coordination Project (IOCCP)*.

His research interests are focused in the area of carbon biogeochemical cycles and the impact of multiple stressors on marine populations. Cristian is also an Associate Researcher at the *Millennium Institute of Oceanography (IMO)* where he focuses mostly in the area of inorganic carbon chemistry in oxygen minimum zones (OMZ) and hadal environments. He has carried out pioneering studies that associate the observational carbonate system information with laboratory experiments on micro- and mesocosm set-ups under multiple-stressors. His laboratory is completely equipped for high-quality measurements of the carbonate system, autonomous biogeochemical sensors, and a new laboratory-based experimental system for replicate both $p\text{CO}_2$ and oxygen variability. As such this lab constitutes a reference laboratory at the regional level.

Cristian has published more than 77 papers in leading international journals. Recently, Cristian and his research group have been focused deeply on understanding the role of natural variability in marine ecosystems shaping the plastic responses of organisms upon future changing ocean conditions.