Martino’s research interest is in community ecology and species interactions. His current research focuses on analysis of the main mechanisms determining species assemblages in microbial aquatic environments. His PhD combines theoretical contributions from process-based models with empirical observations from field and laboratory settings. This will develop a novel approach to integrate both present and historical nutrient regimes to fully understand and explain phytoplankton dynamics in artificial or natural systems.

Current models on resource-driven phytoplankton dynamics assume that only present external nutrient concentrations determine rates of uptake and growth of a species. Martino’s research has found how nutrient history is also important when analysing phytoplankton dynamics.
Publications
