We investigate contact forms admitting singularities and analyze the dynamics of its associated Reeb vector field. A motivation to study differential forms that are singular on a hypersurface comes from celestial mechanics, where classical coordinate changes incude singularities in the symplectic form. Another source of example is coming from fluid dynamics when considering manifolds with boundary. We discuss the Weinstein conjecture on the existence of periodic Reeb orbits in this setting. This is joint work with Eva Miranda.

Time permitting, we will discuss Beltrami fields with isolated singularities. Those can be described as Reeb vector fields associated to contact forms with isolated singularities. We will explain how Hofer's machinery can be possibly applied in this setting to prove existence of periodic Reeb orbits away from the singular set. This is work in progress together with Eva Miranda and Fran Presas.