Enkeleida Lushi* (elushi@flatironinstitute.org), Newark, NJ 07102. Motion of micro-swimmers in confinement. Interactions between motile microorganisms and solid boundaries play an important role in many biological and technological processes. I will discuss recent advances in experiments and simulations that aim to understand the motion of micro-swimmers such as bacteria, micro-algae or spermatozoa in confinements or structured environments. Our results highlight the complex interplay of the fluidic and contact interactions of the individuals with each-other and the boundaries to give rise to intricate behavior. (Received July 10, 2018)