

**Marco Mendez Guaraco**  
**Exploring Mean Curvature Flow for Non-Boundary  
Surfaces**

In this talk, I will share a collaborative project with V. Lima and F. Vargas Pallete. I will focus on aspects that concern the global behavior of the mean curvature flow for surfaces that do not bound regions. Our interest emerged from our attempt to extend Uhlenbeck's work on minimal surfaces in 3-dimensional hyperbolic manifolds, particularly those called Quasi-Fuchsian manifolds. I will also discuss this part of the work briefly.