Title: On complete hypersurfaces with negative Ricci curvature in Euclidean spaces.

Abstract: In this paper, we prove that if $M^n,\ n \geq 3$, is a complete Riemannian manifold with negative Ricci curvature and $f : M^n \to \mathbb{R}^{n+1}$ is an isometric immersion such that $\mathbb{R}^{n+1} \backslash f(M)$ is an open set that contains balls of arbitrarily large radius, then $\inf_M |A| = 0$, where $|A|$ is the norm of the second fundamental form of the immersion. In particular, an n-dimensional complete Riemannian manifold with negative Ricci curvature bounded away from zero cannot be properly isometrically immersed in a half-space of $\mathbb{R}^{n+1}$. This gives a partial answer to a question raised by Reilly and Yau. This is a joint work with A.P. Barreto.