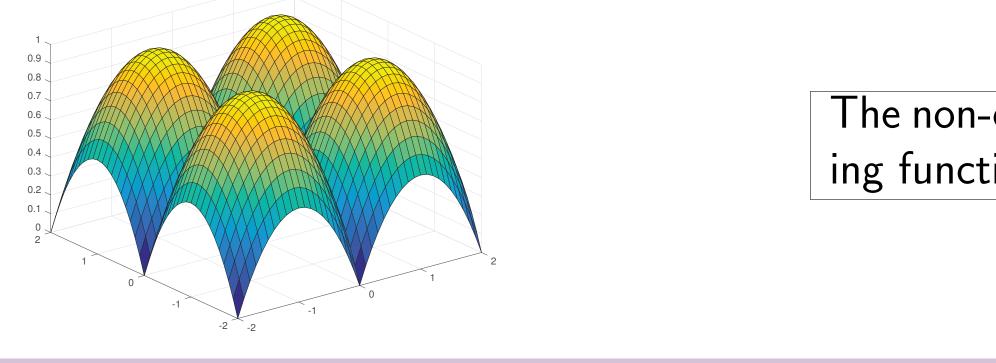
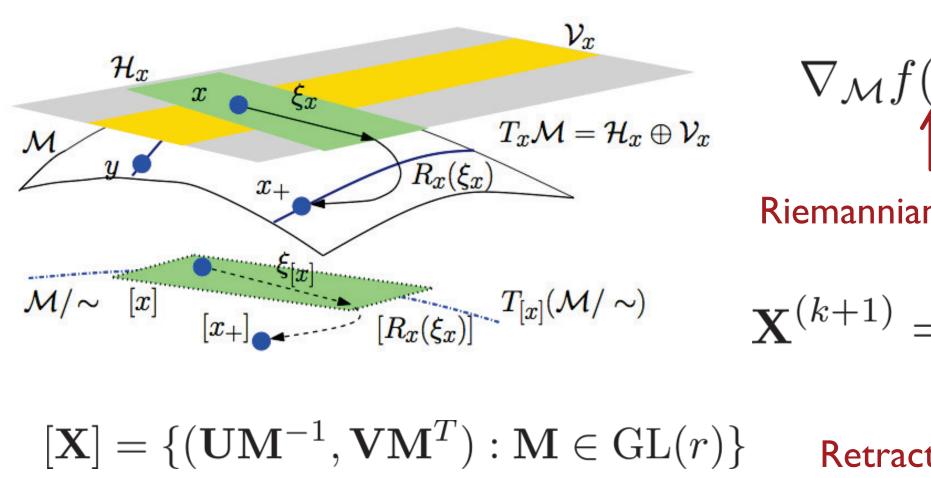


Sparse and Low-Rank Decomposition for Big Data Systems via Smoothed Riemannian Optimization





optimization," 9th NIPS Workshop on Optimization for Machine Learning (OPT 2016), Barcelona, Spain.



$$(\mathbf{X}^{(k)}) = P_{\mathbf{X}^{(k)}}(\nabla f(\mathbf{X}^{(k)}))$$

$$\mathcal{R}_{\mathbf{X}^{(k)}}(-\alpha^{(k)}\nabla_{\mathcal{M}}f(\mathbf{X}^{(k)}))$$