

**DATA.STAT.770 Dimensionality Reduction and
Visualization, Spring 2021, Exercise set 9**

**Problem E8: General view of dimensionality reduction,
Curvilinear Component Analysis**

Represent the Curvilinear Component Analysis method (lecture 8) in the general mathematical dimensionality reduction framework (lecture 9). What are the high-dimensional and low-dimensional characteristics and error function?