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## Research Area: Statistics and Data Sciences

The project aims to develop fast and robust dimension reduction methods for large high-dimensional data sets. New dimension reduction methods for large data sets increasingly rely on stochastic concepts and on local distances. The project aims to improve on an algorithm that is set up for indexing, data-mining and creating visualizations of traditional and multimedia datasets. The algorithm will consider distance distributions from random and from extreme points to determine projection axes and clusters for dimension reduction.

### Research Mentor:

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