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**Ryan Moag** and **Boris Goldfarb\*** (bgoldfarb@albany.edu). *An application of nerve complexes in imputation.*

This work uses a well-known tool from topological data analysis, the Mapper algorithm, to leverage geometric shape of data sets when performing imputation of missing values. This is an important step in data preparation for statistical and machine learning tasks. I will describe the general strategy and show results of experiments that demonstrate effectiveness of the method in the presence of complicated homotopy theoretic features and non-linear correlations in data. (Received September 15, 2019)