

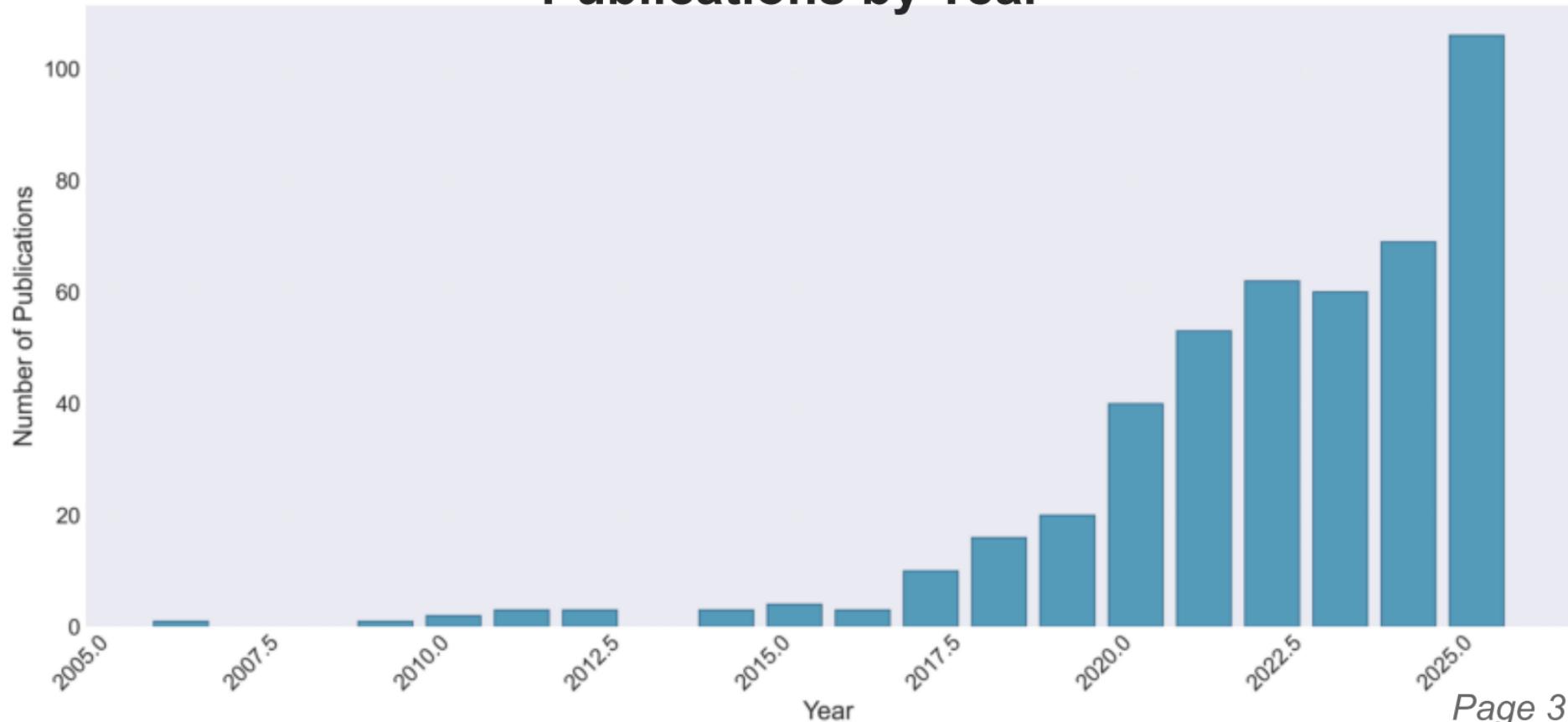
Meta-Analysis Graphical Abstract

Total Papers: 456
Date: 2025-12-15

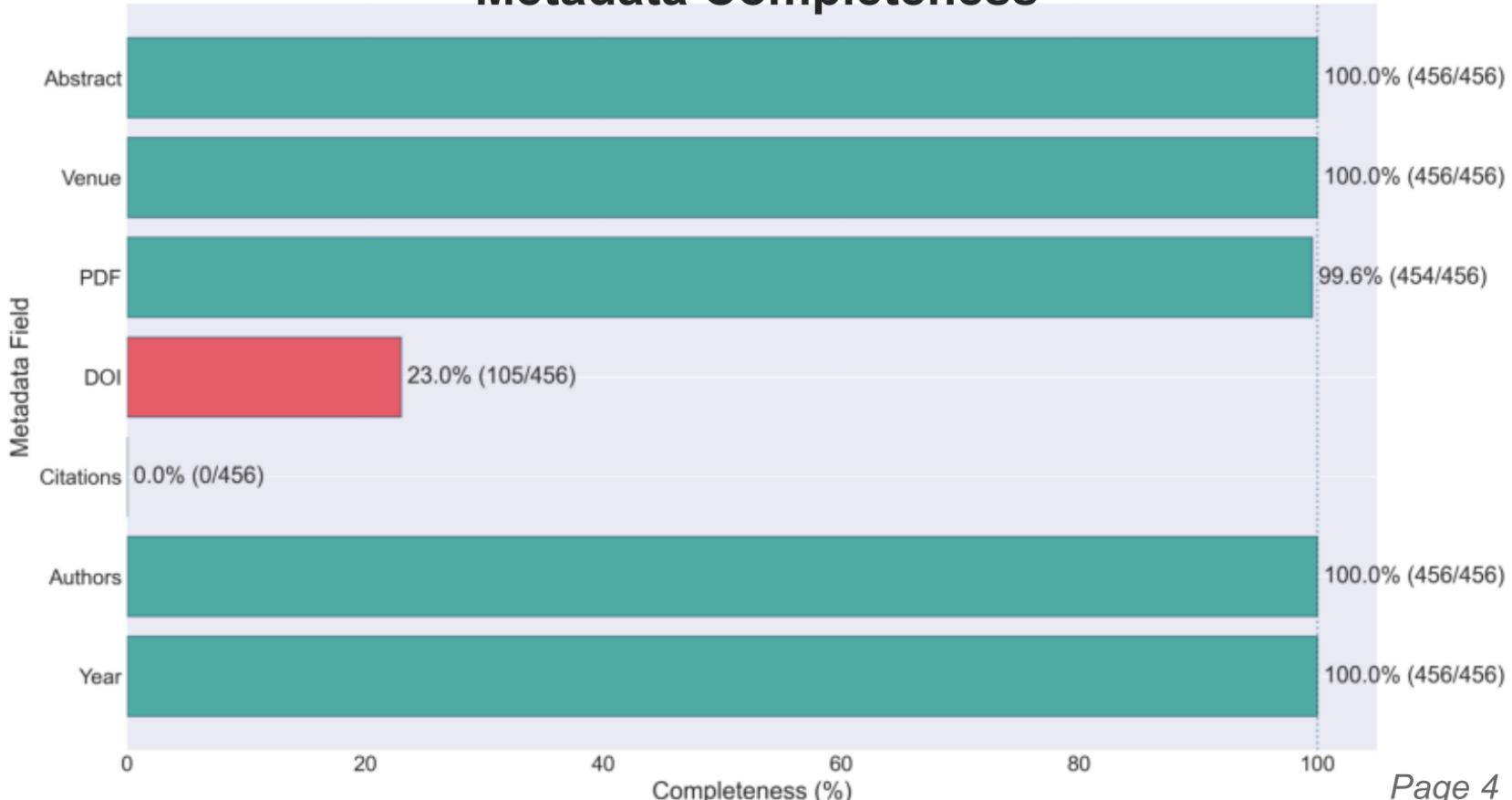
(Includes Embedding Analysis)

Overview

Publications by Year

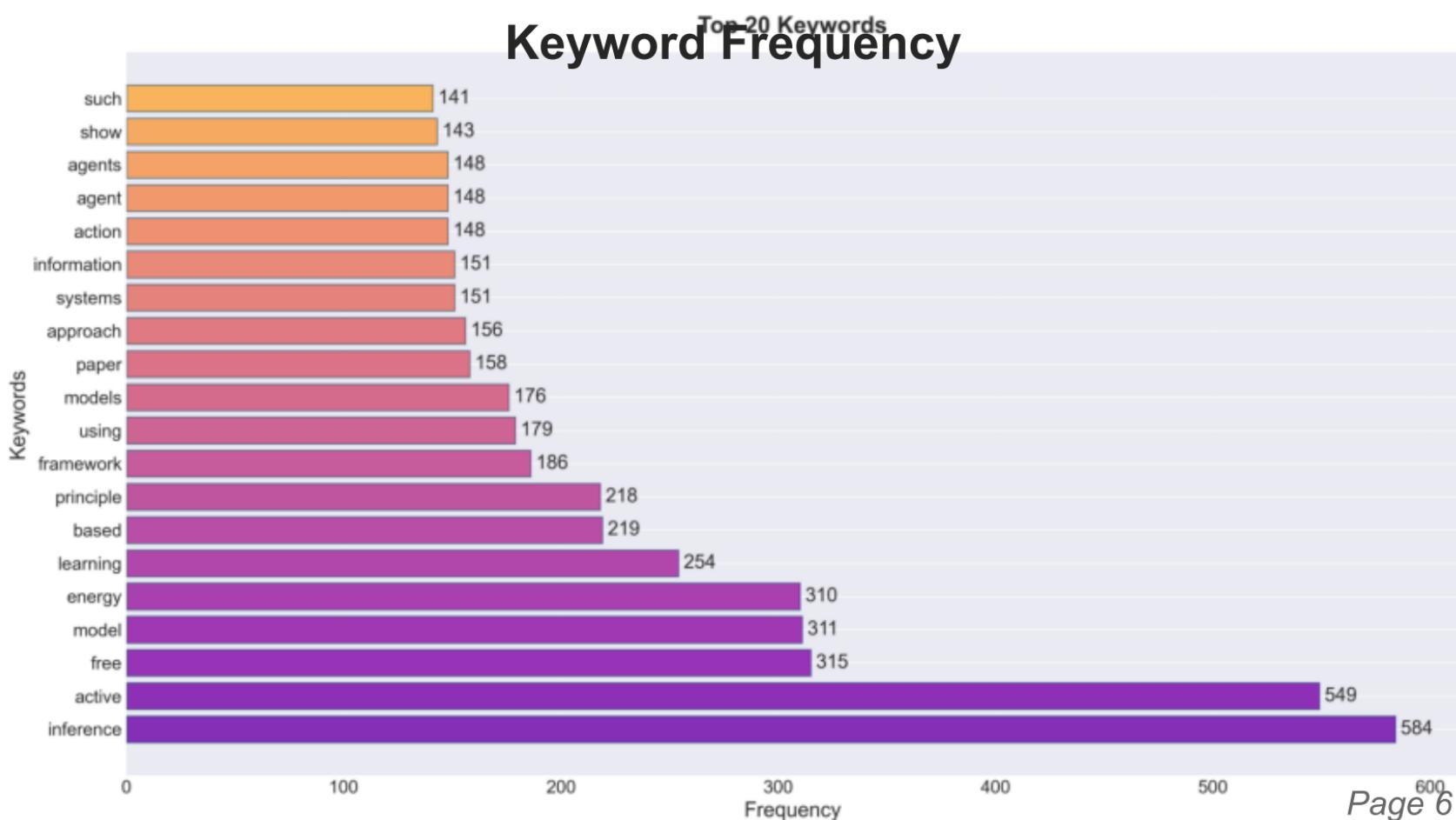


Metadata Completeness

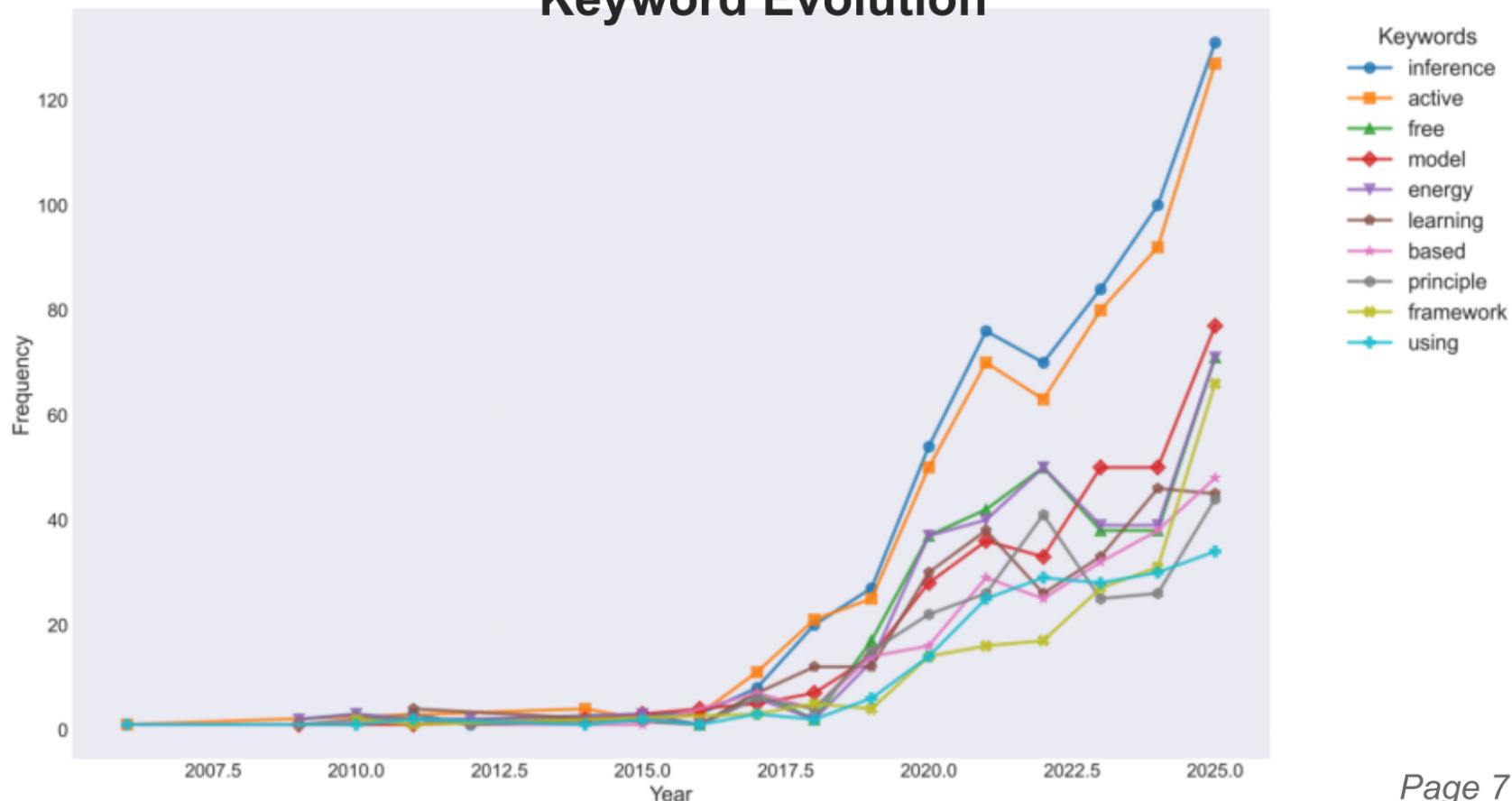


Keyword Analysis

Keyword Frequency

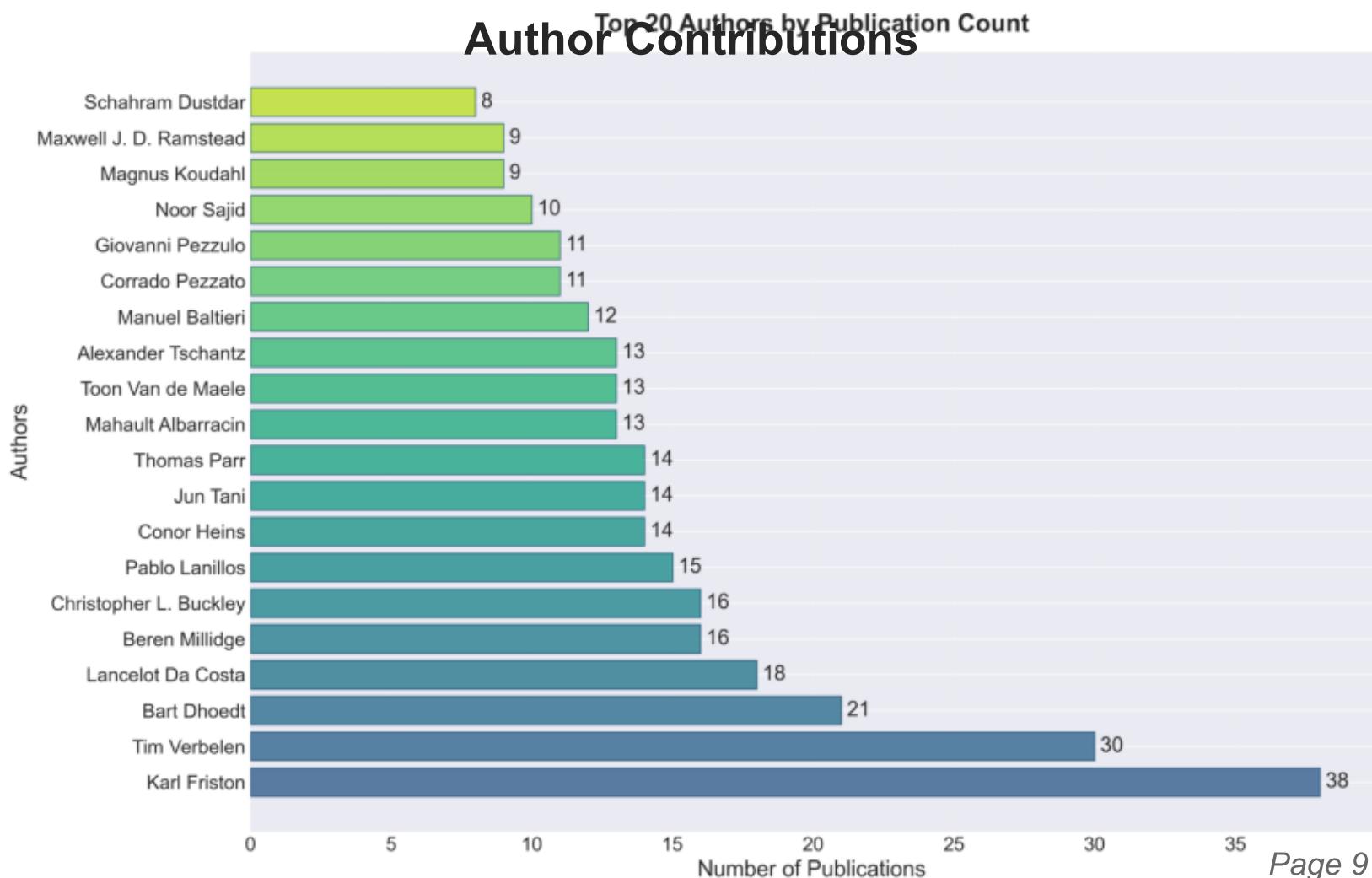


Keyword Evolution



Author & Venue Analysis

Author Contributions



Venue Distribution

Venues

arXiv

456



0

100

200

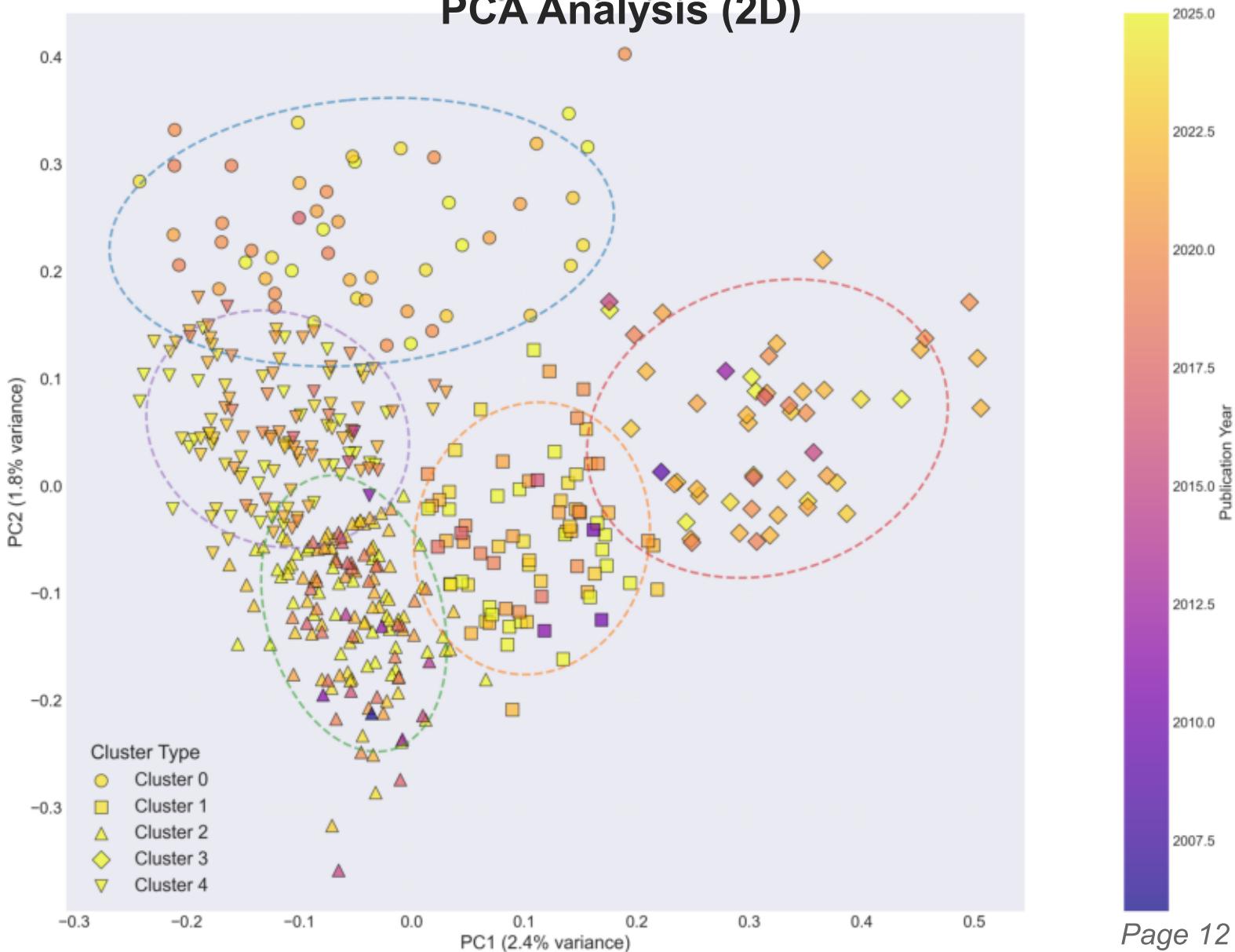
300

400

Number of Publications

PCA Analysis

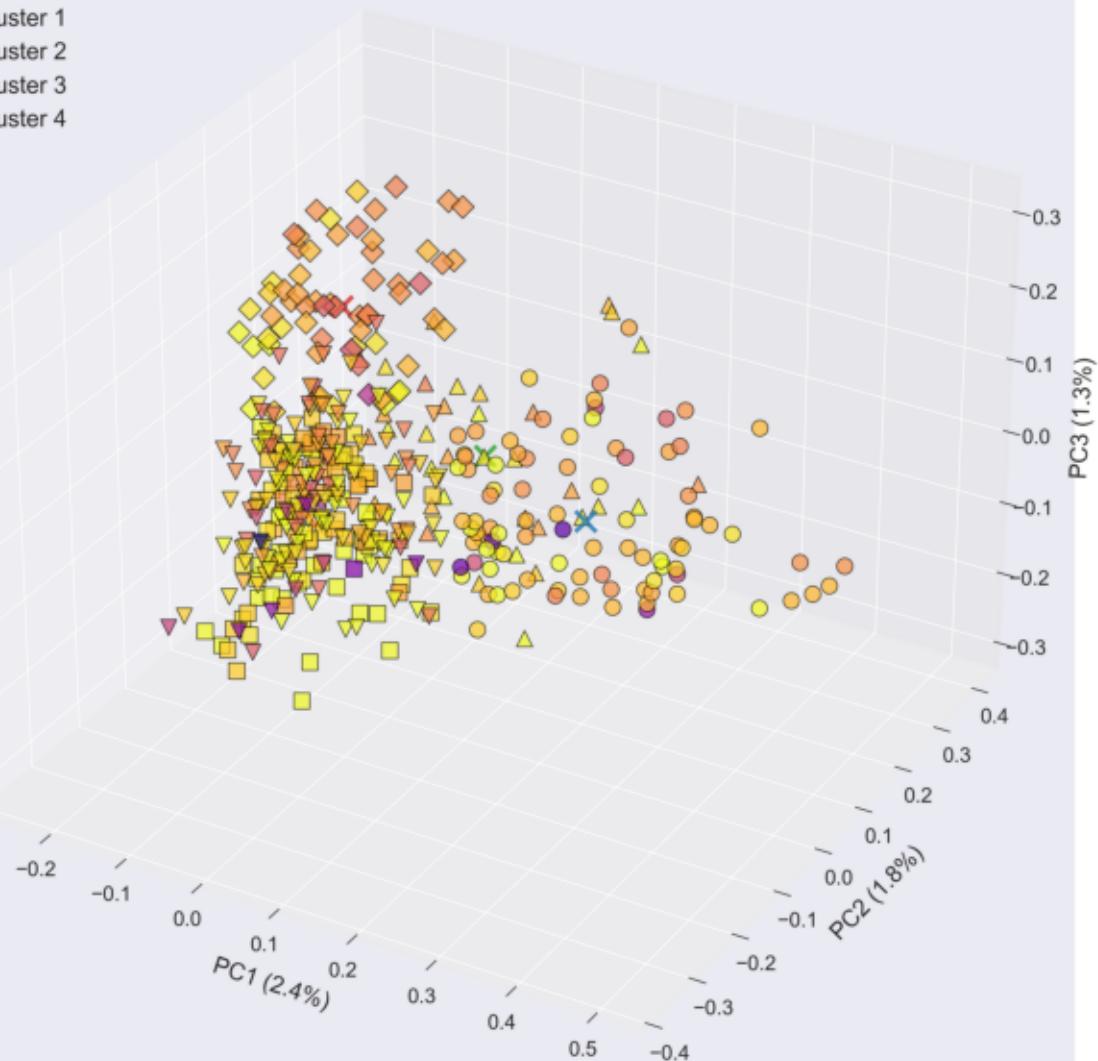
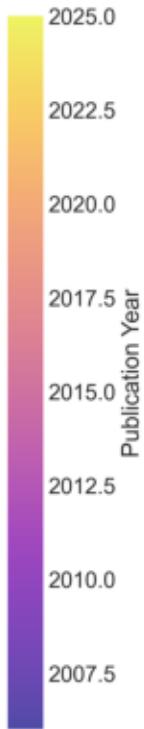
PCA Analysis (2D)



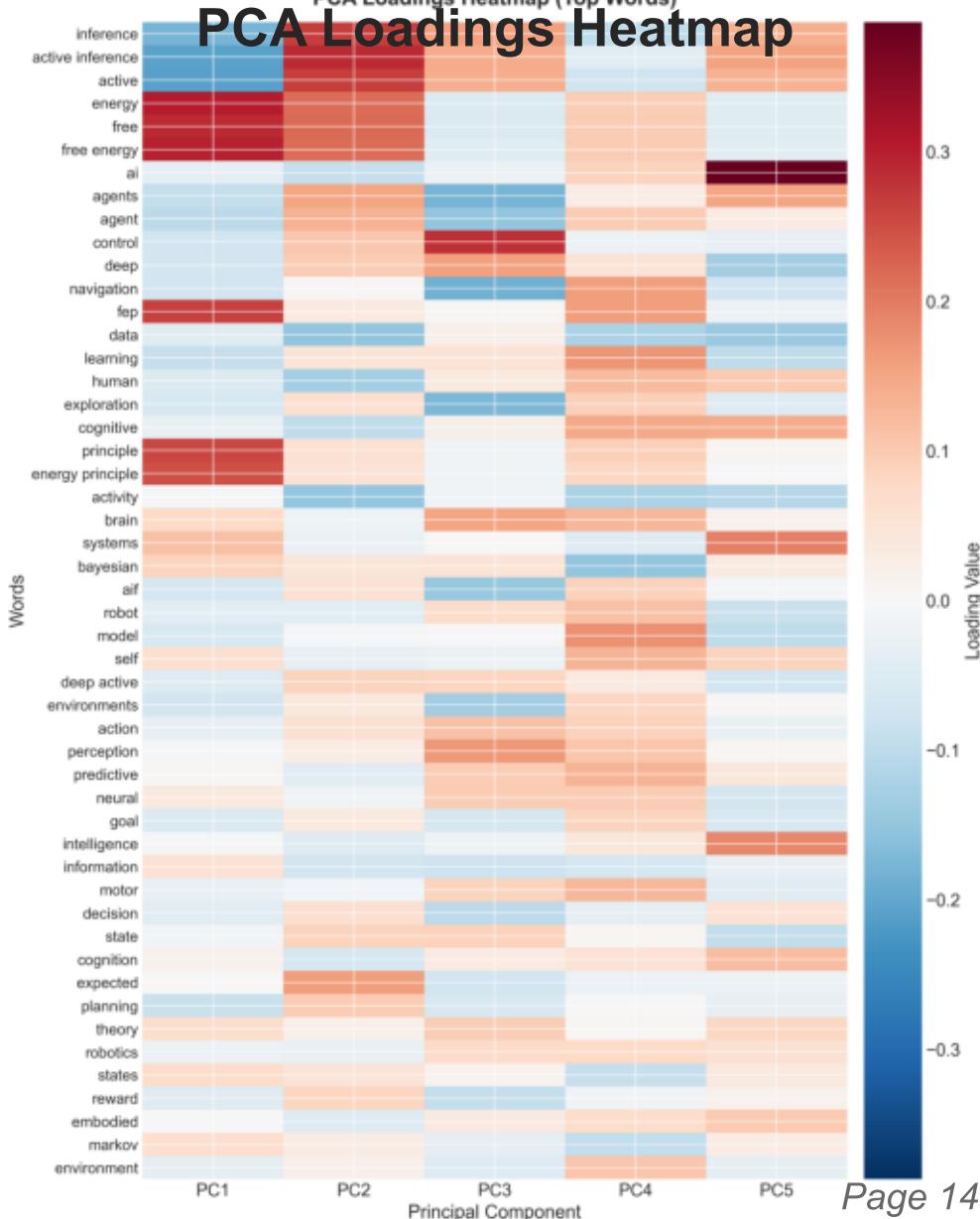
PCA Analysis (3D)

Cluster Type

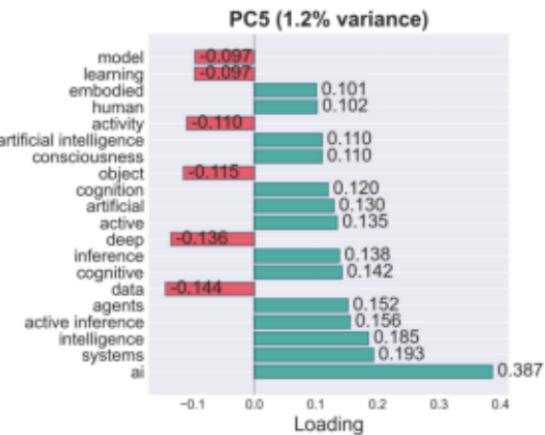
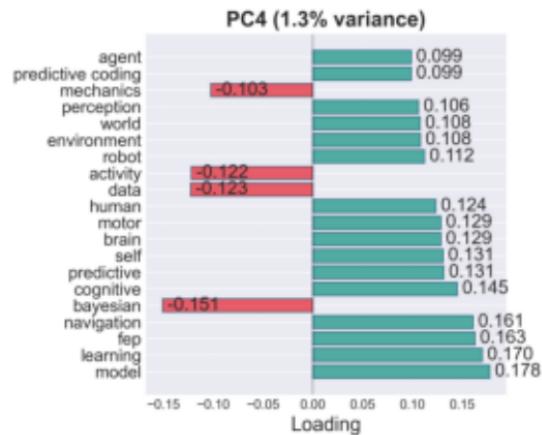
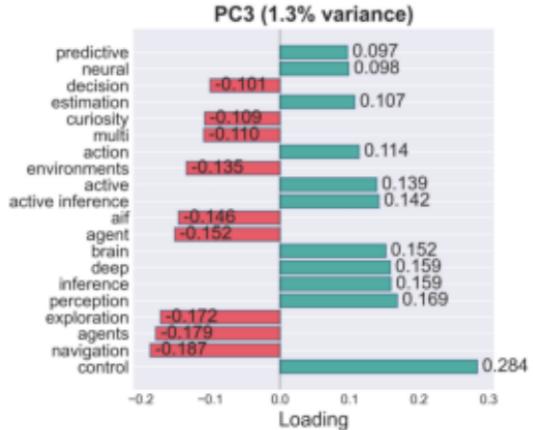
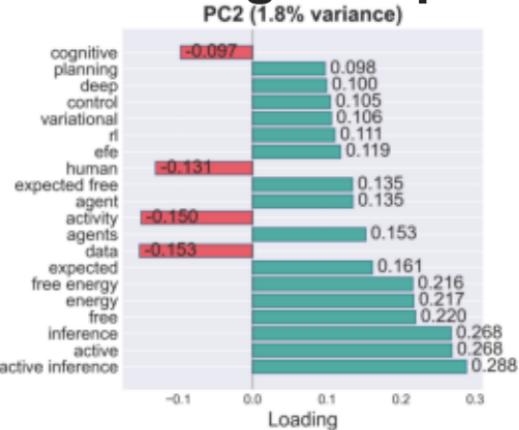
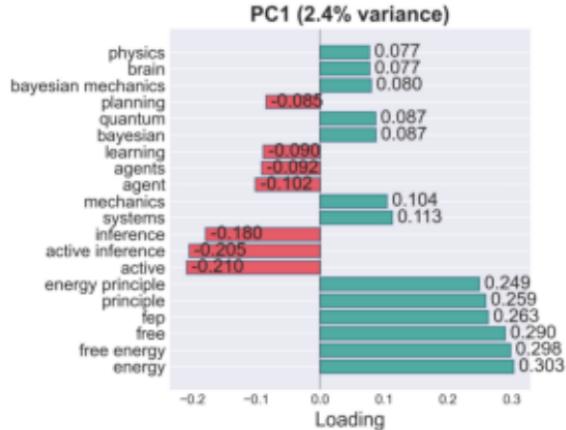
- Cluster 0
- Cluster 1
- ▲ Cluster 2
- ◆ Cluster 3
- ▼ Cluster 4



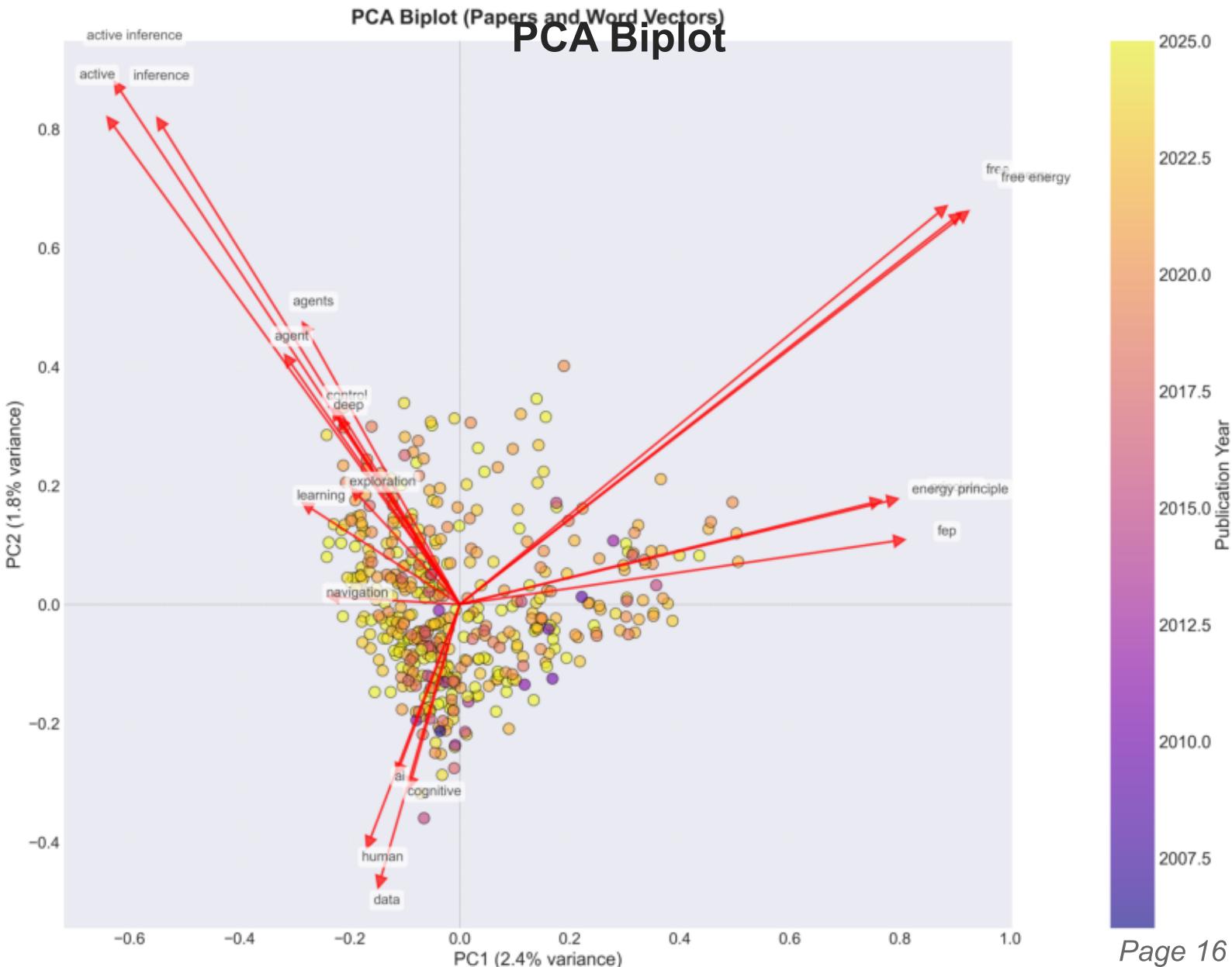
PCA Loadings Heatmap (Top Words)



PCA Loadings Barplots

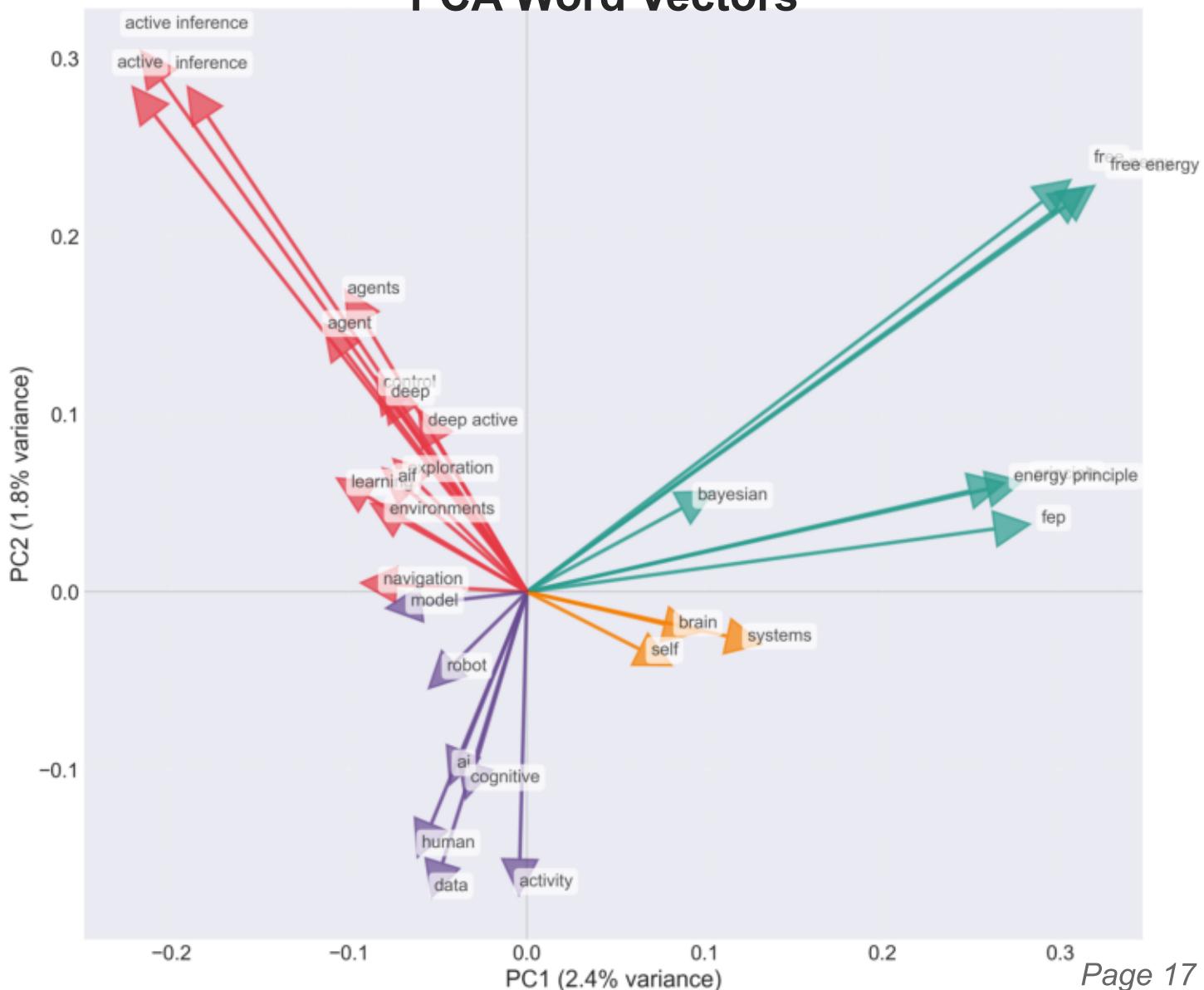


PCA Biplot (Papers and Word Vectors)



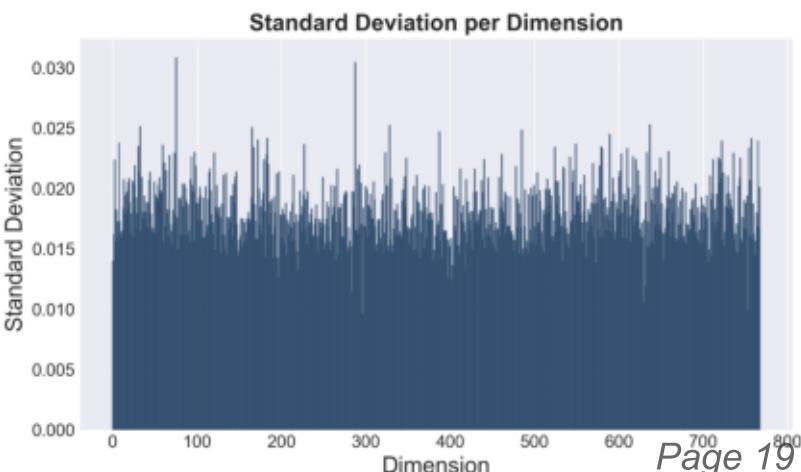
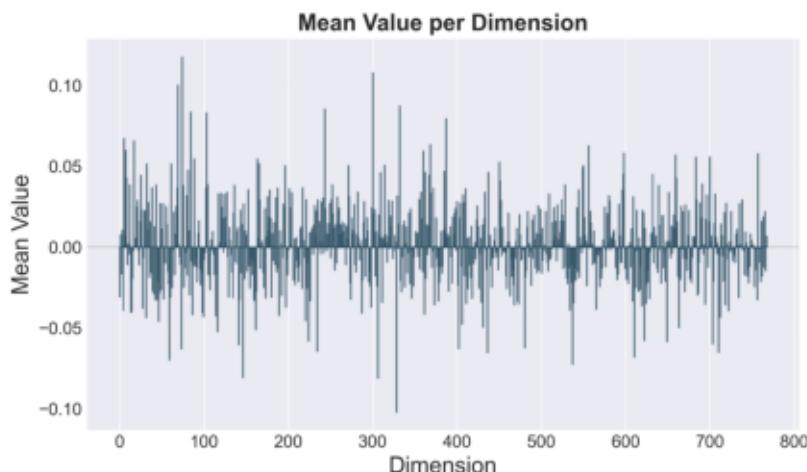
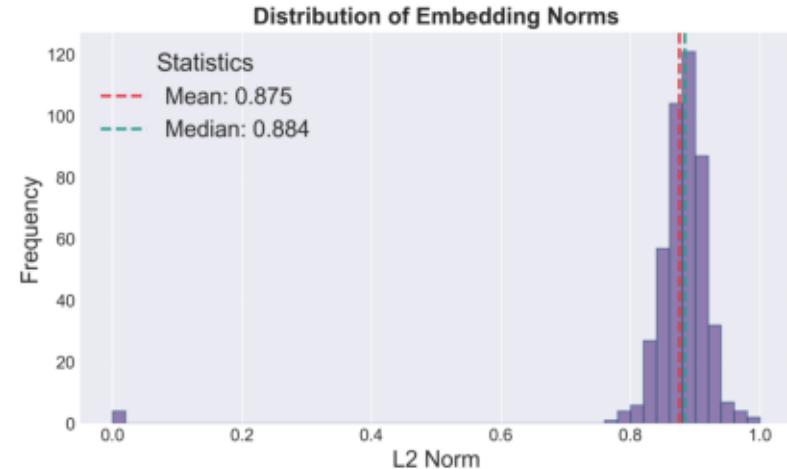
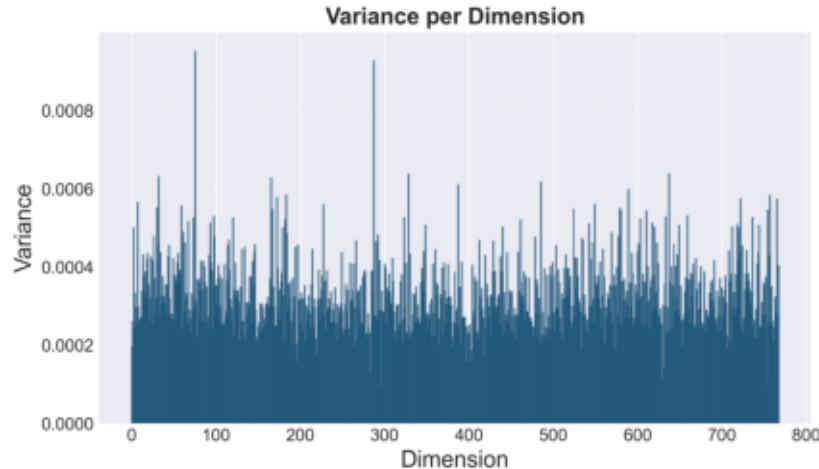
Word Vectors in Principal Component Space

PCA Word Vectors

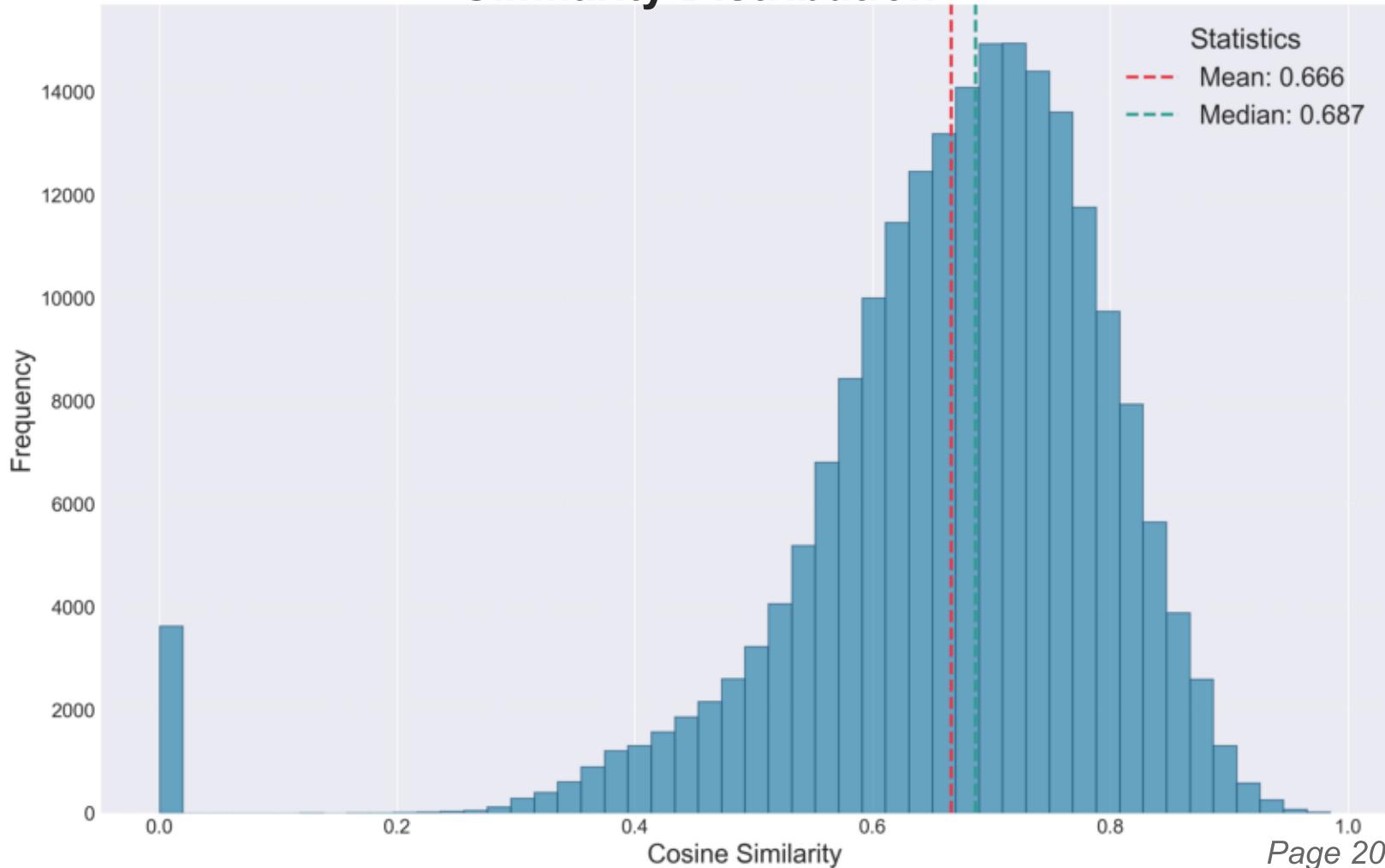


Embedding Analysis

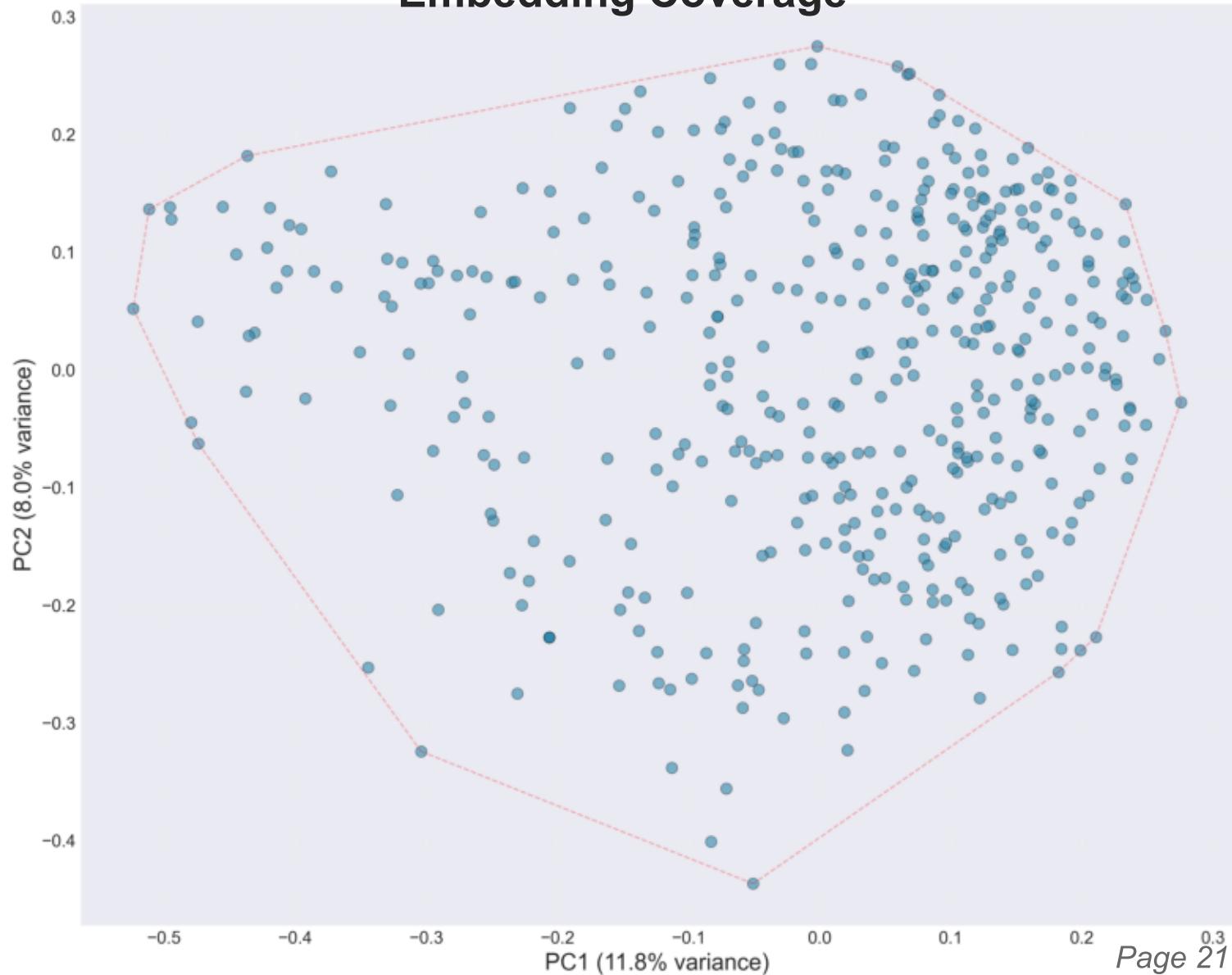
Embedding Quality



Similarity Distribution

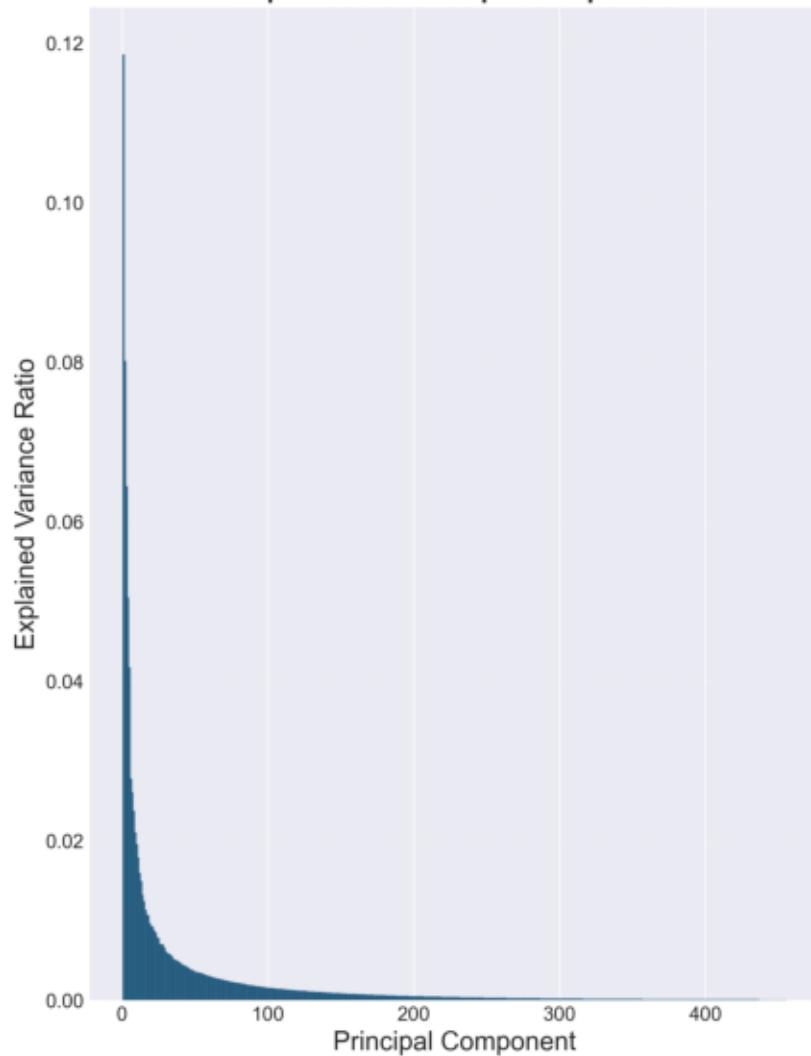


Embedding Space Coverage

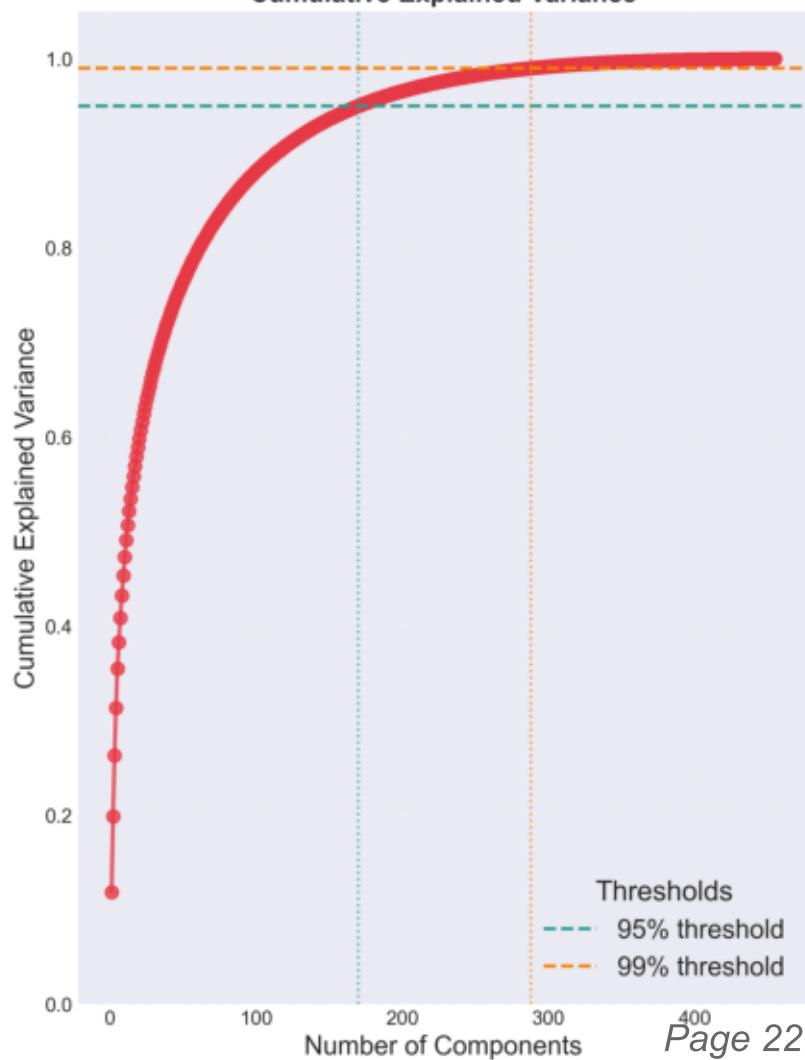


Dimensionality Analysis

Explained Variance per Component



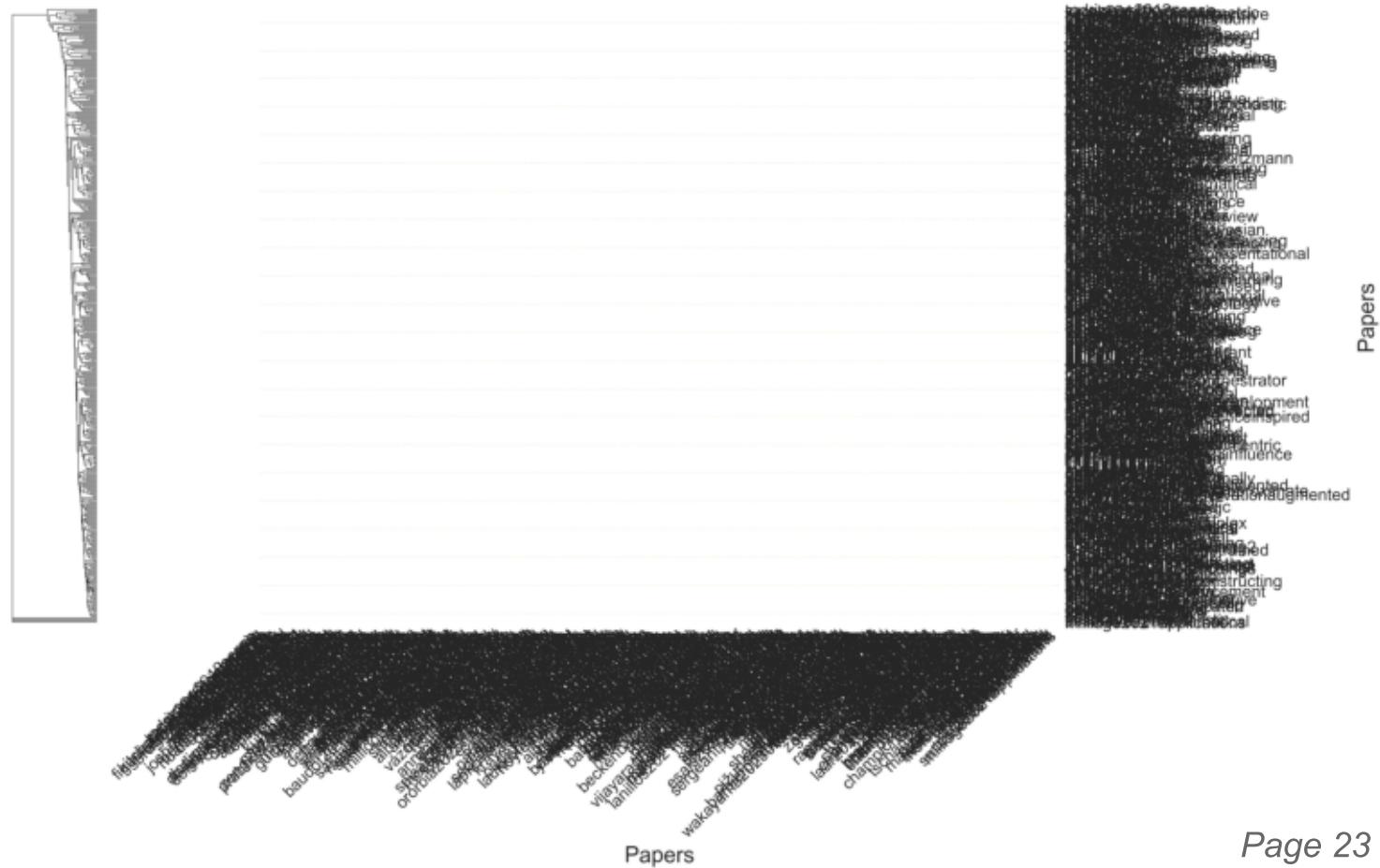
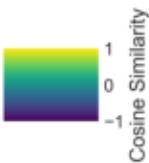
Cumulative Explained Variance



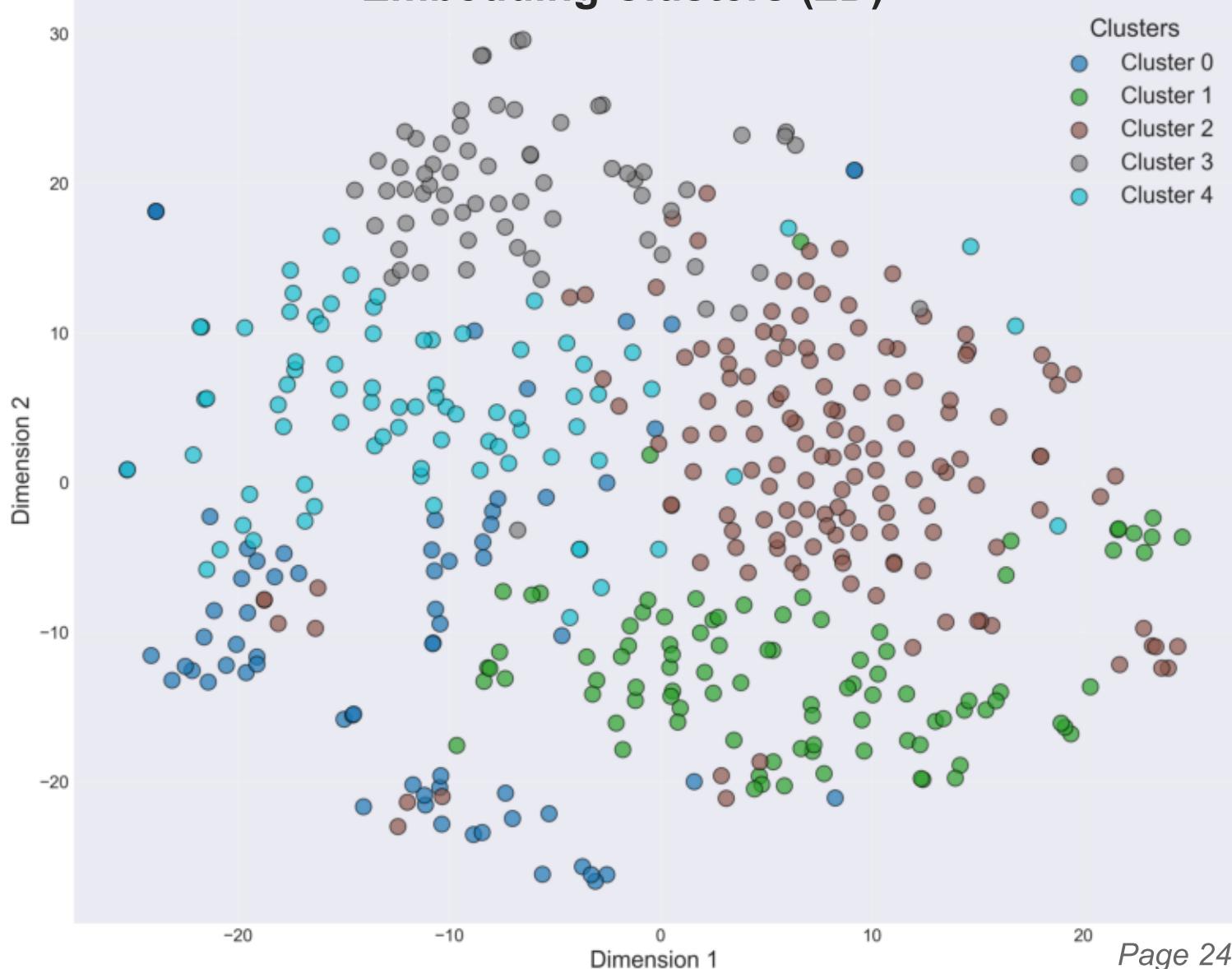
Thresholds

- 95% threshold
- 99% threshold

Paper Similarity Matrix (Embeddings) Similarity Heatmap



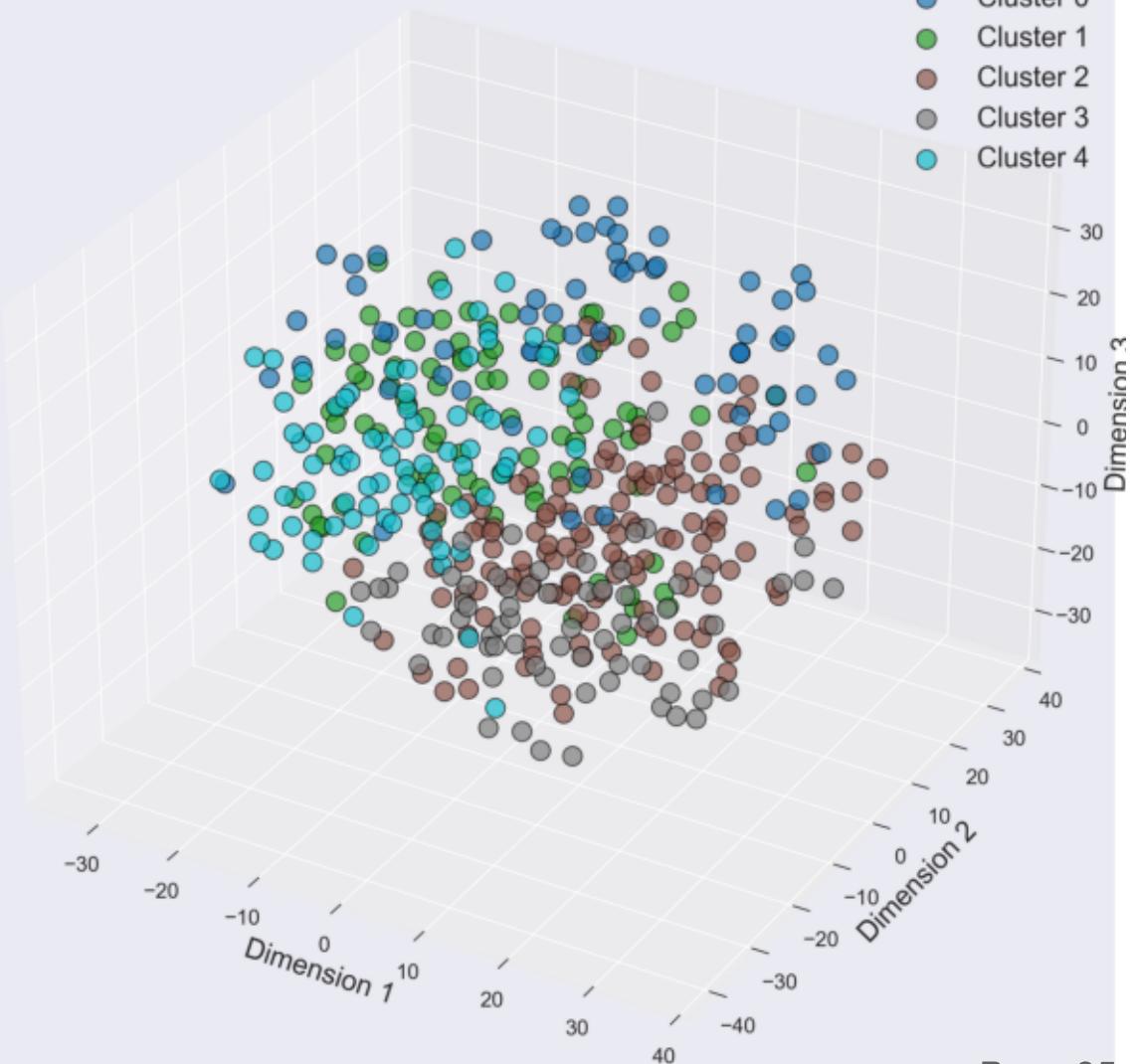
Embedding Clusters (2D)



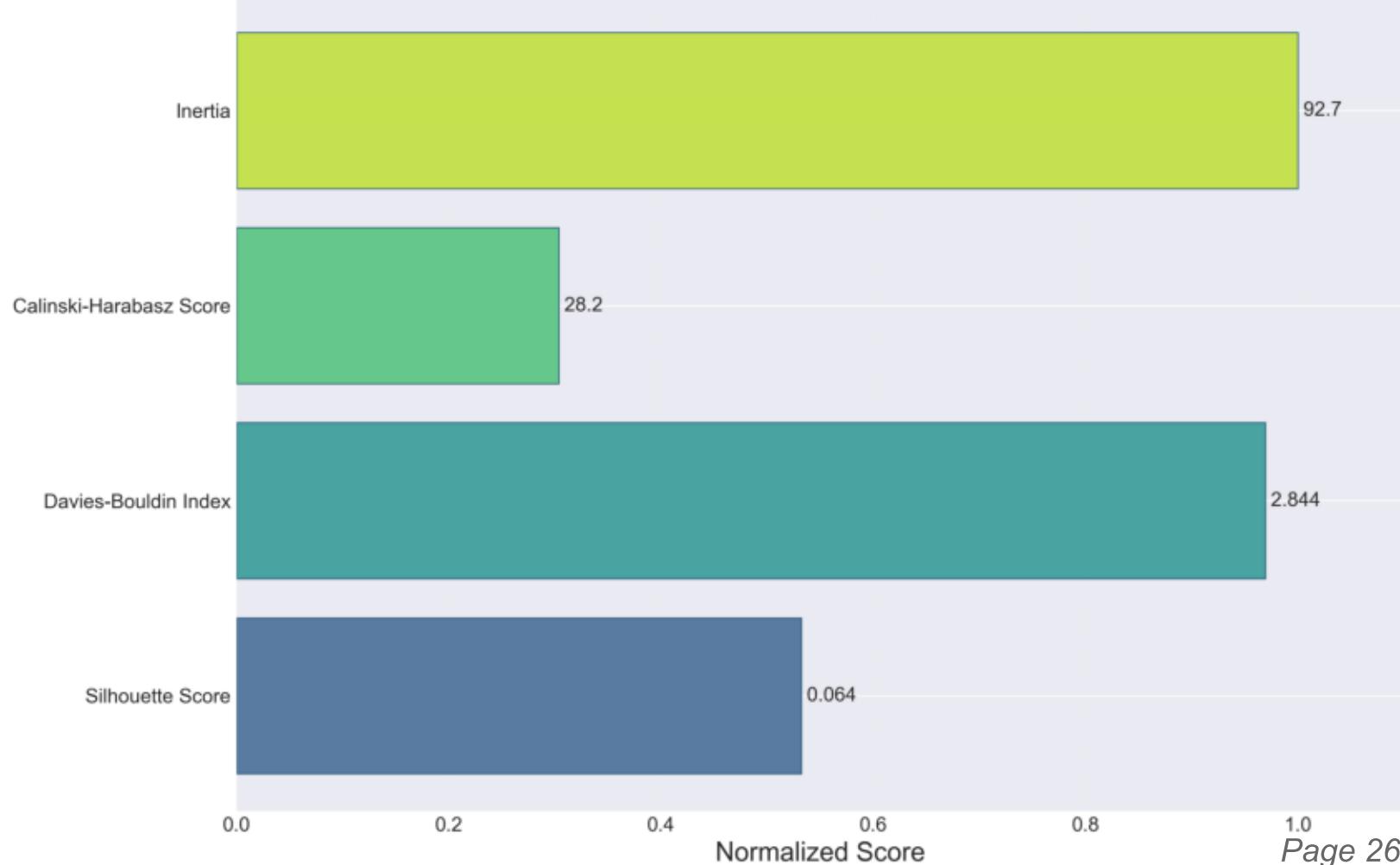
Embedding Clusters (3D)

Clusters

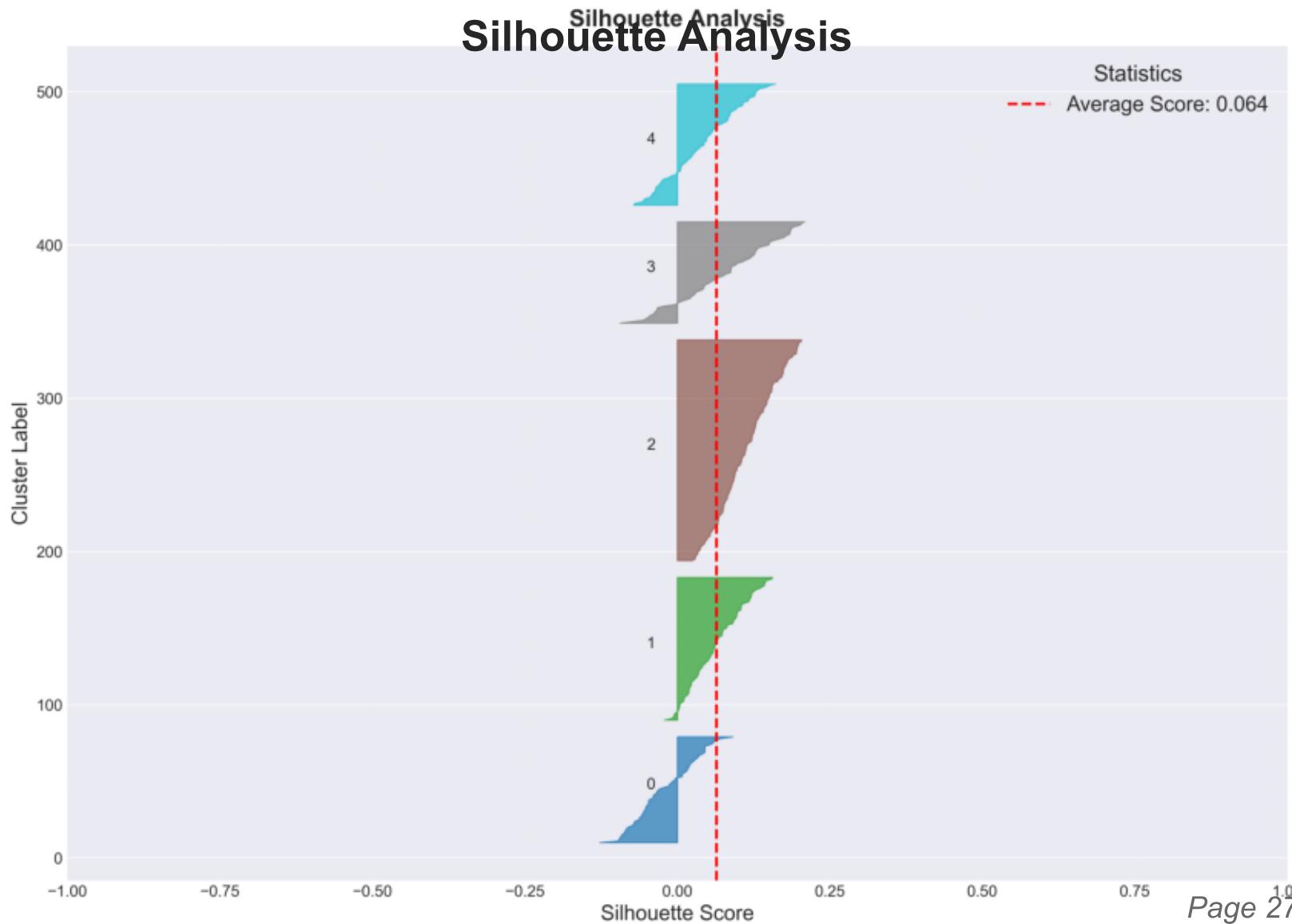
- Cluster 0
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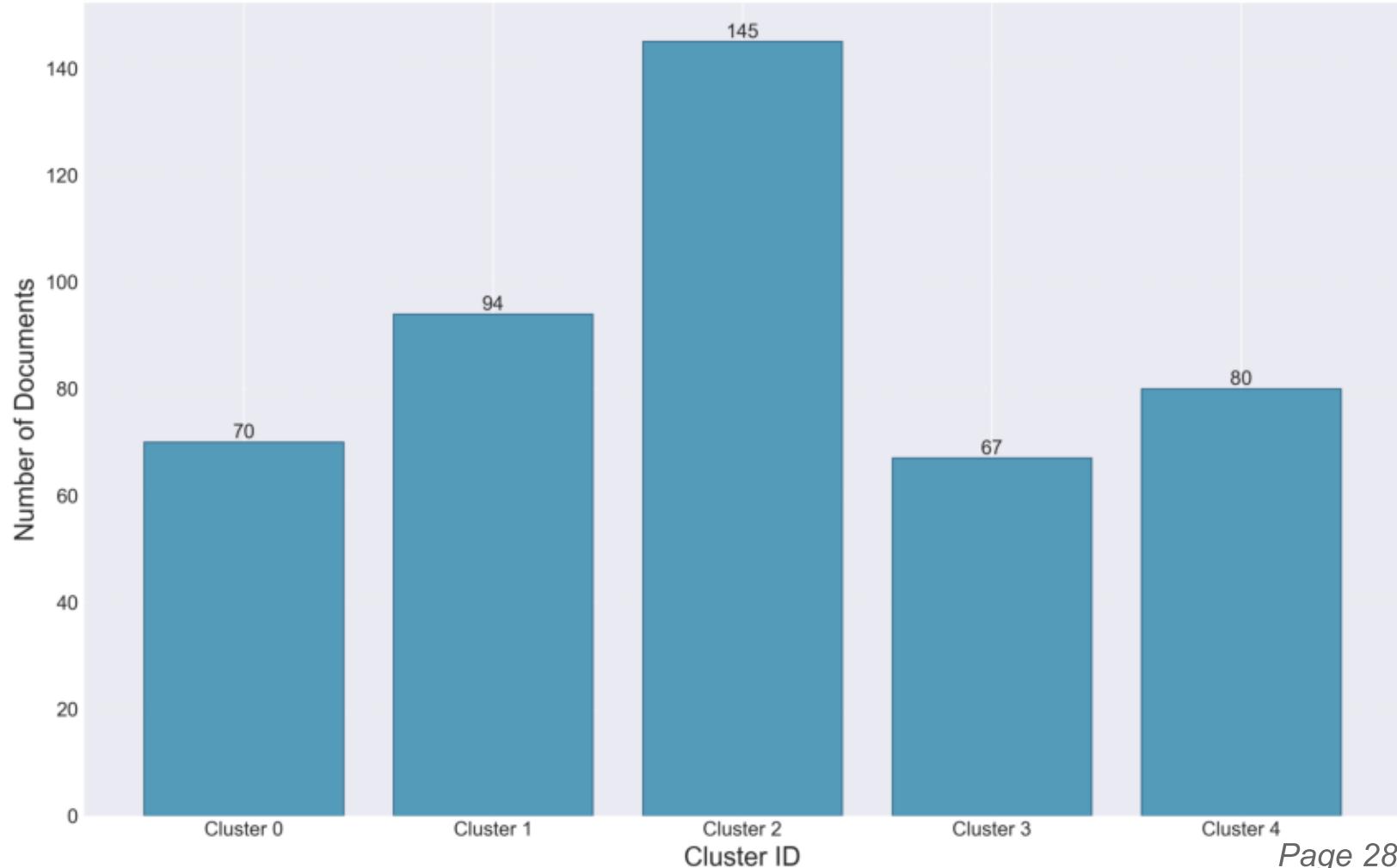
Clustering Quality Metrics



Silhouette Analysis



Cluster Size Distribution



Embedding Outliers

