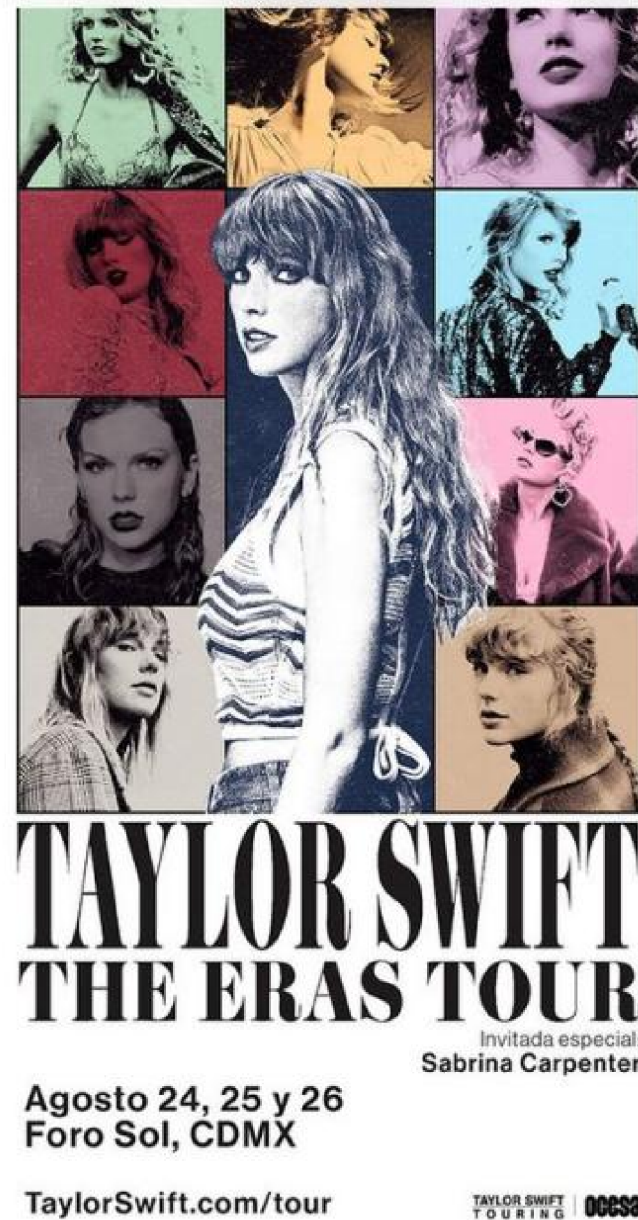




UVG

JUANFER RAMÍREZ 20666
OSCAR MÉNDEZ 20402

Tweet



Proyecto 1

ECOBICI



Contenido

- Crear el dataset
- Análisis exploratorio
- Escalamiento Multidimensional
- Reducción de dimensiones y proyecciones
- Clusterización

DATASET

Variables:

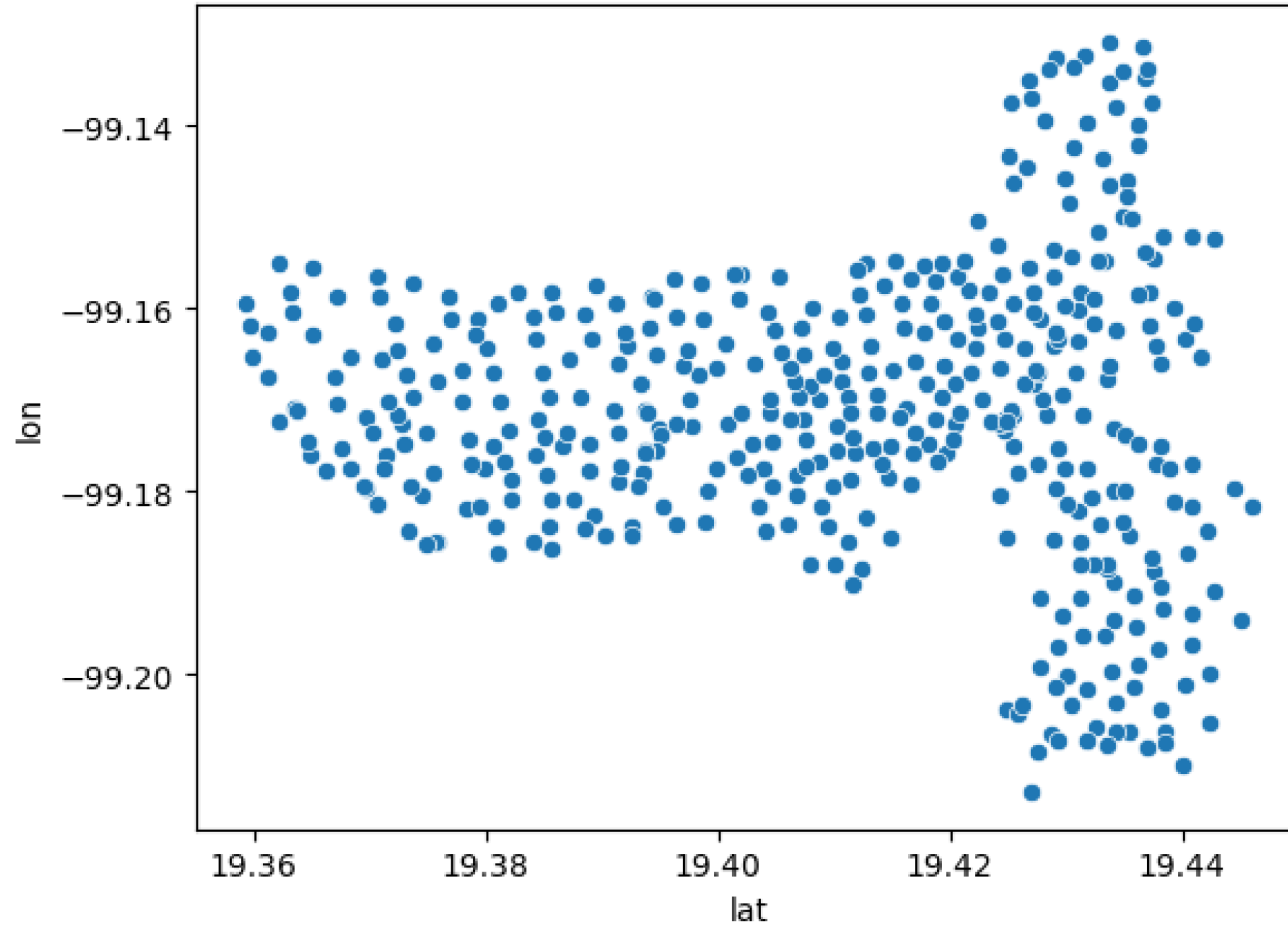
- Edad Promedio
- Distancia entre estaciones
- Tiempo promedio de uso
- Proporción de género por estación
- Distancia al Centro de CDMX
- Distancia al Foro sol
- Demanda de estación de Retiro
- Demanda de estación de Arribo
- Hora pico de estación
- Día pico de estación

Unidad de análisis: Estación

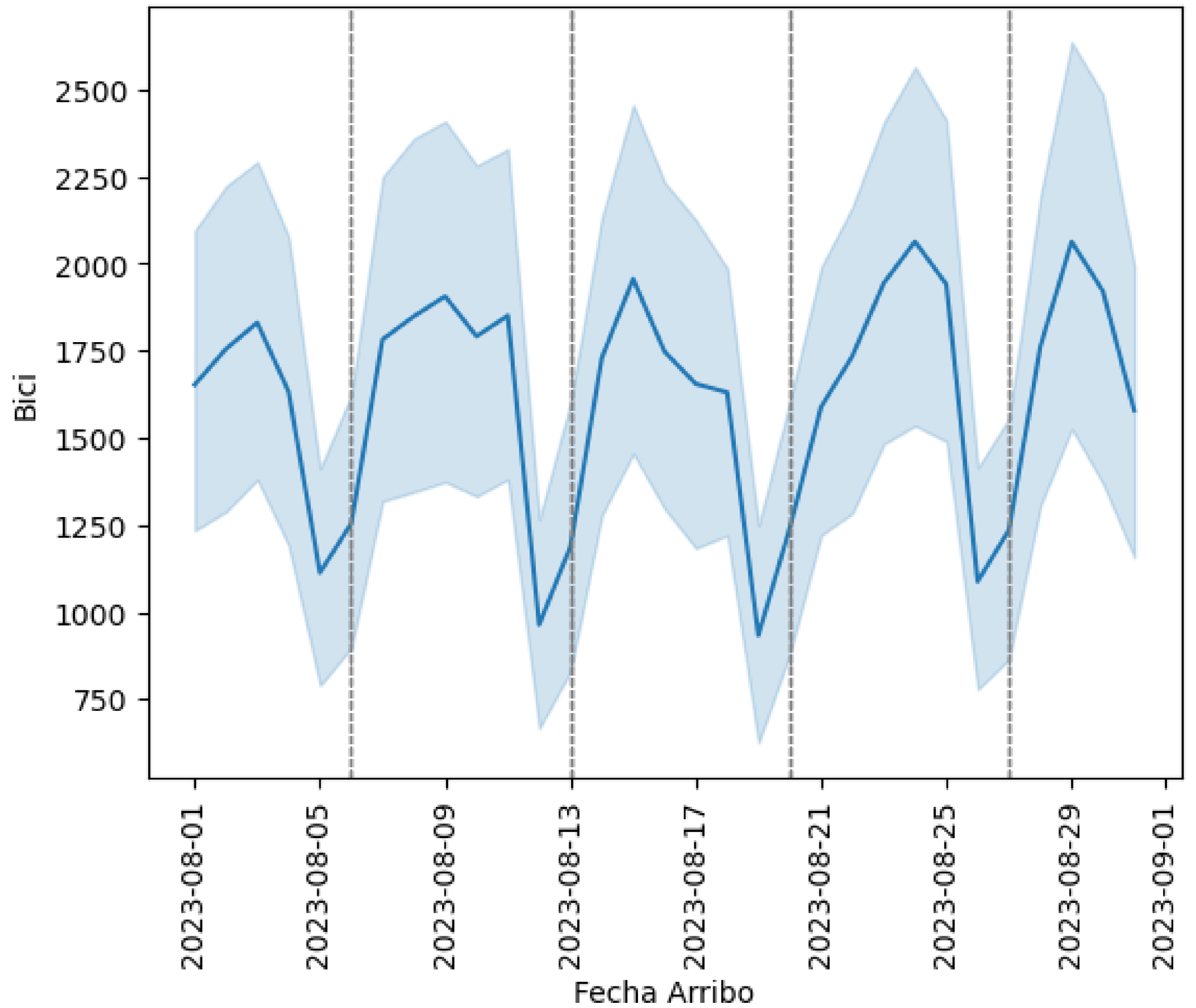


Análisis Exploratorio de Datos

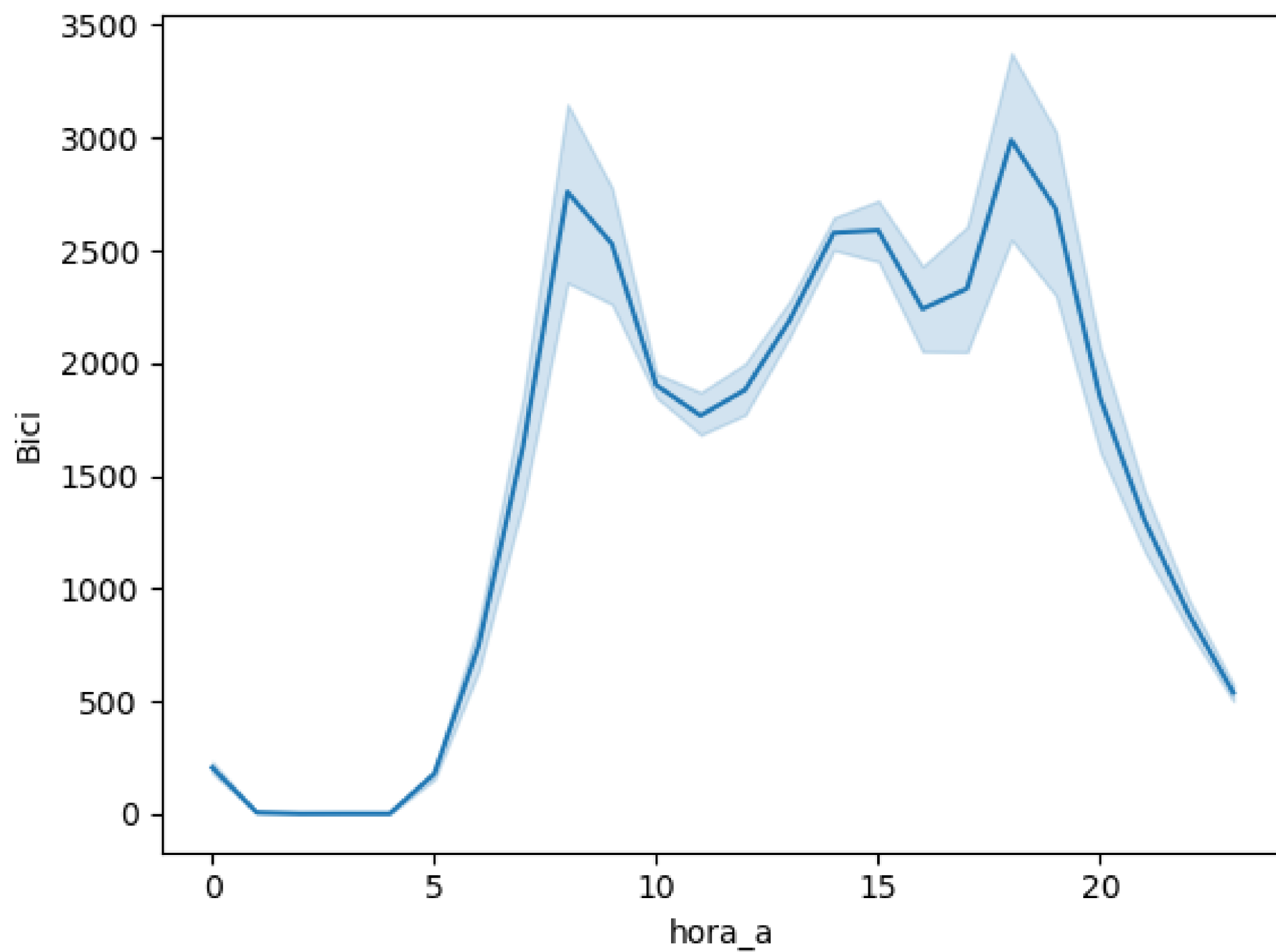
Coordenadas de las Estaciones



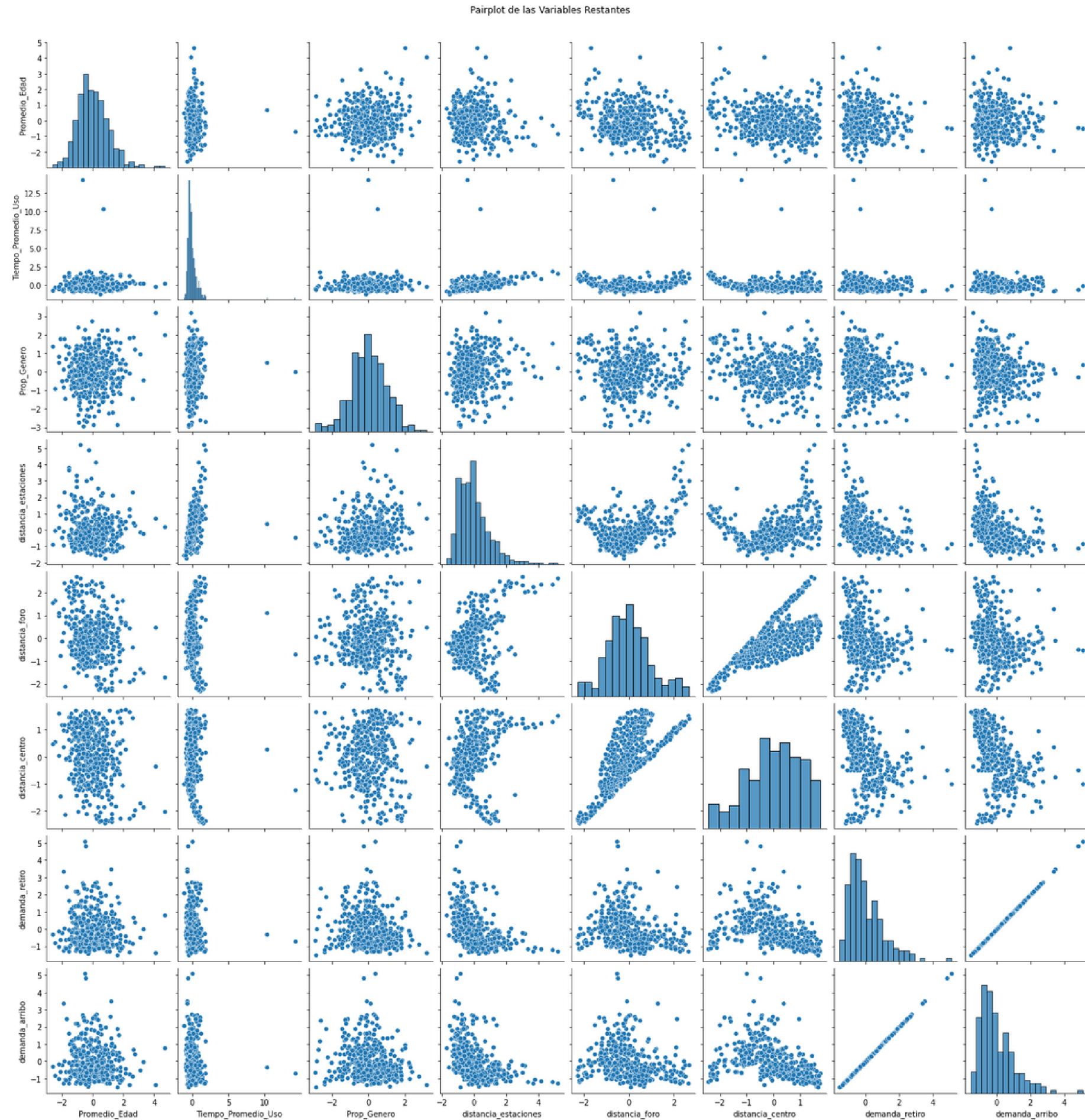
Demanda de Bicicletas



Horas Pico



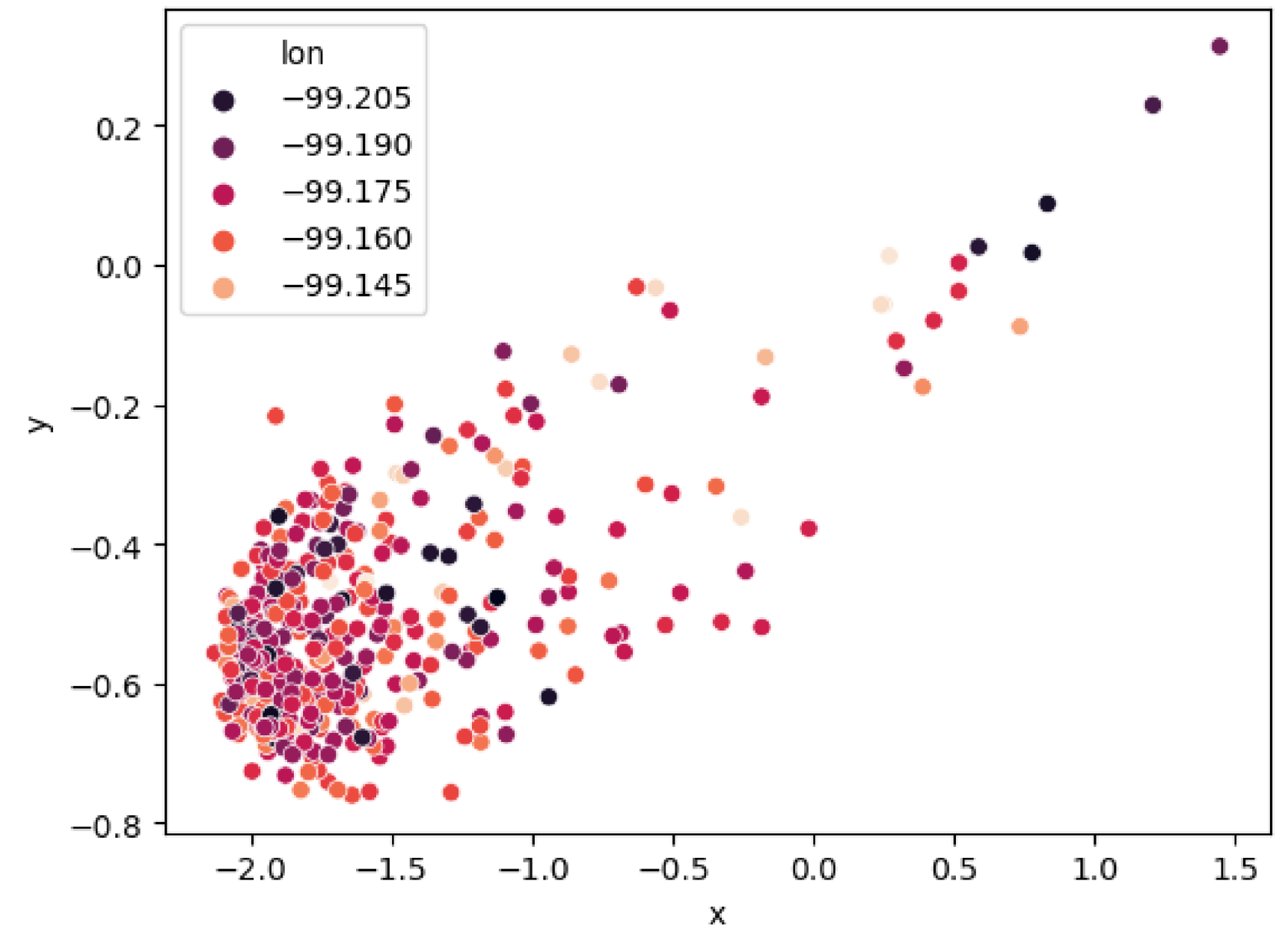
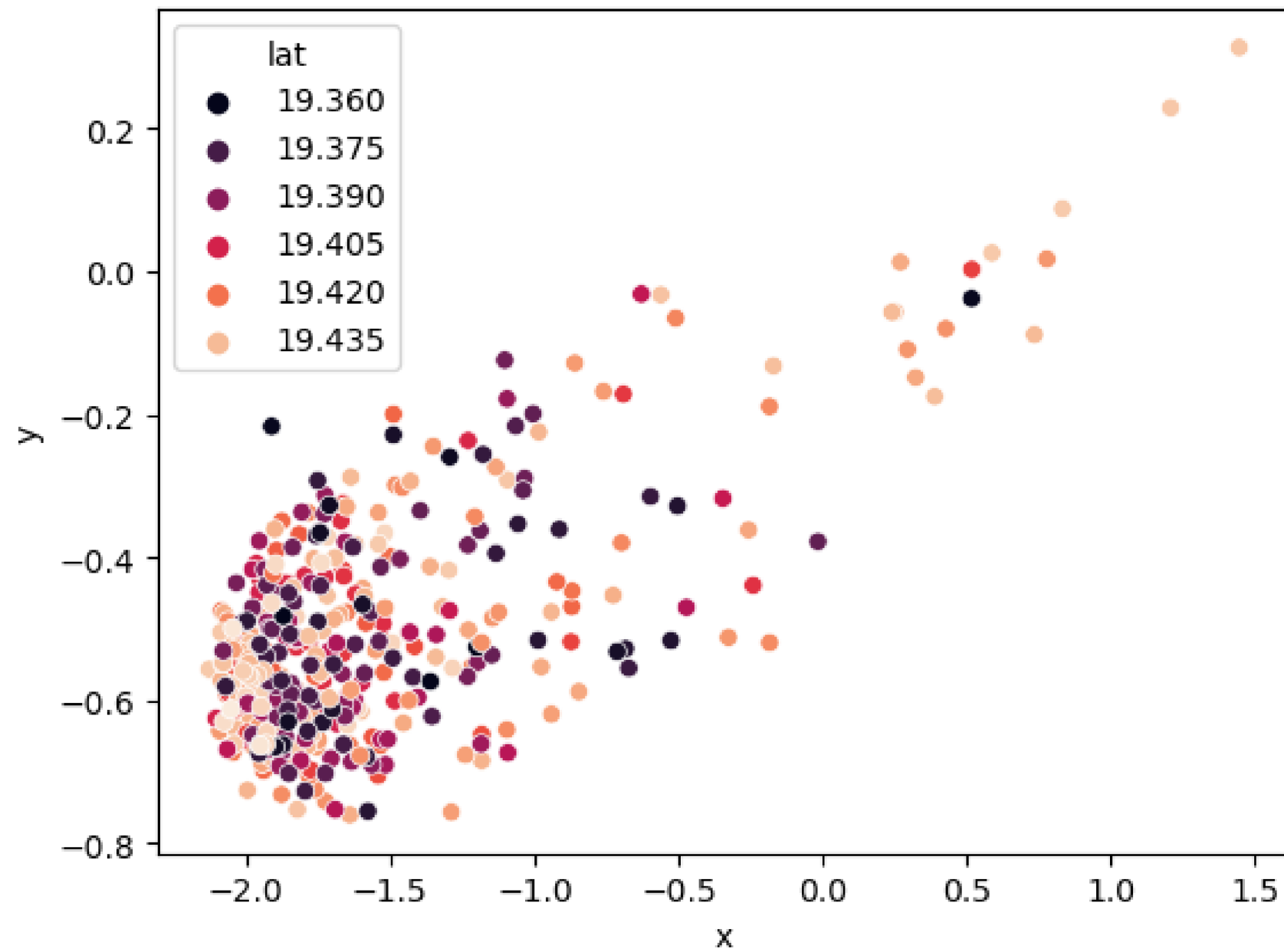
Distribuciones





Escalamiento Multidimensional

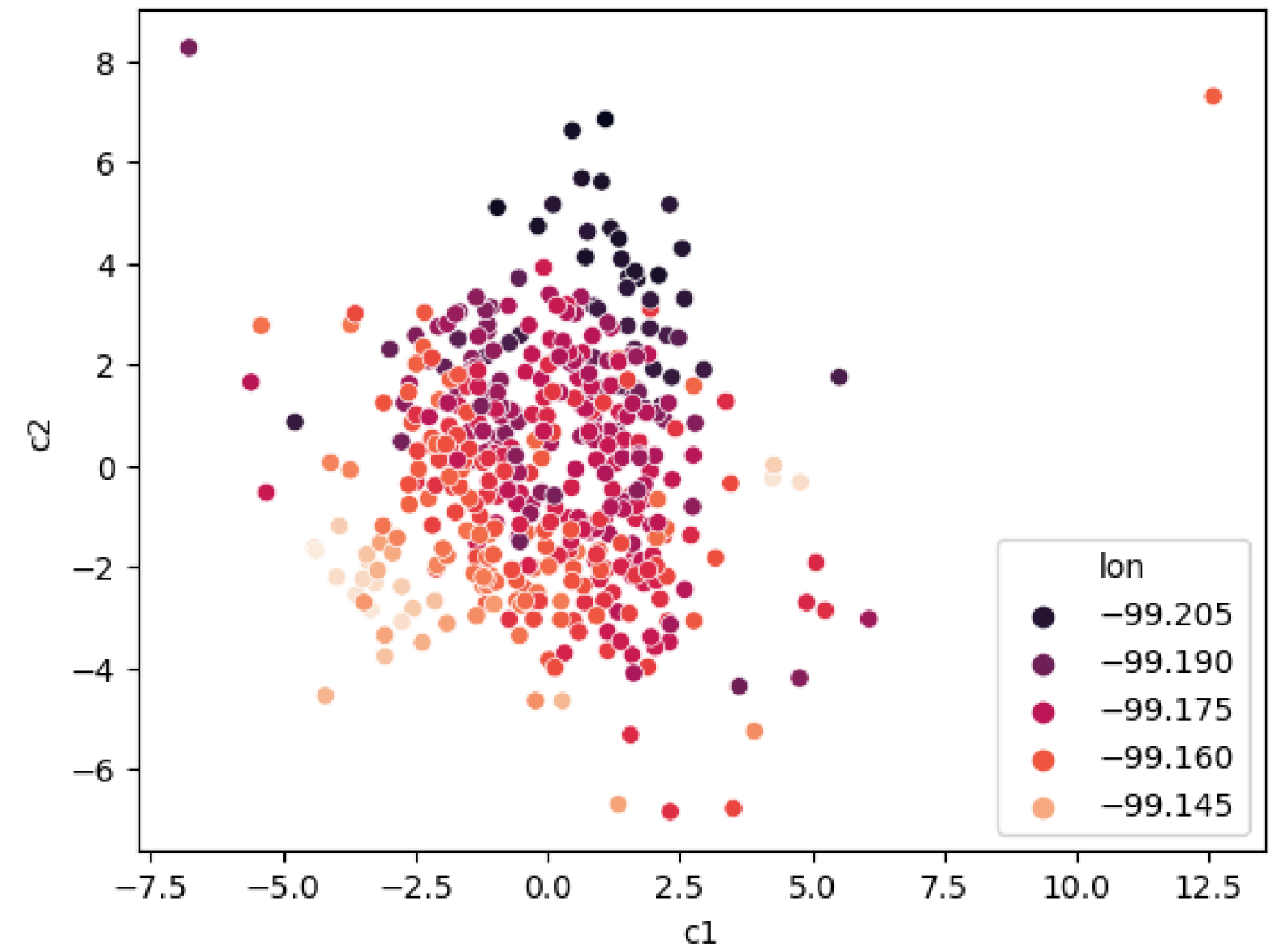
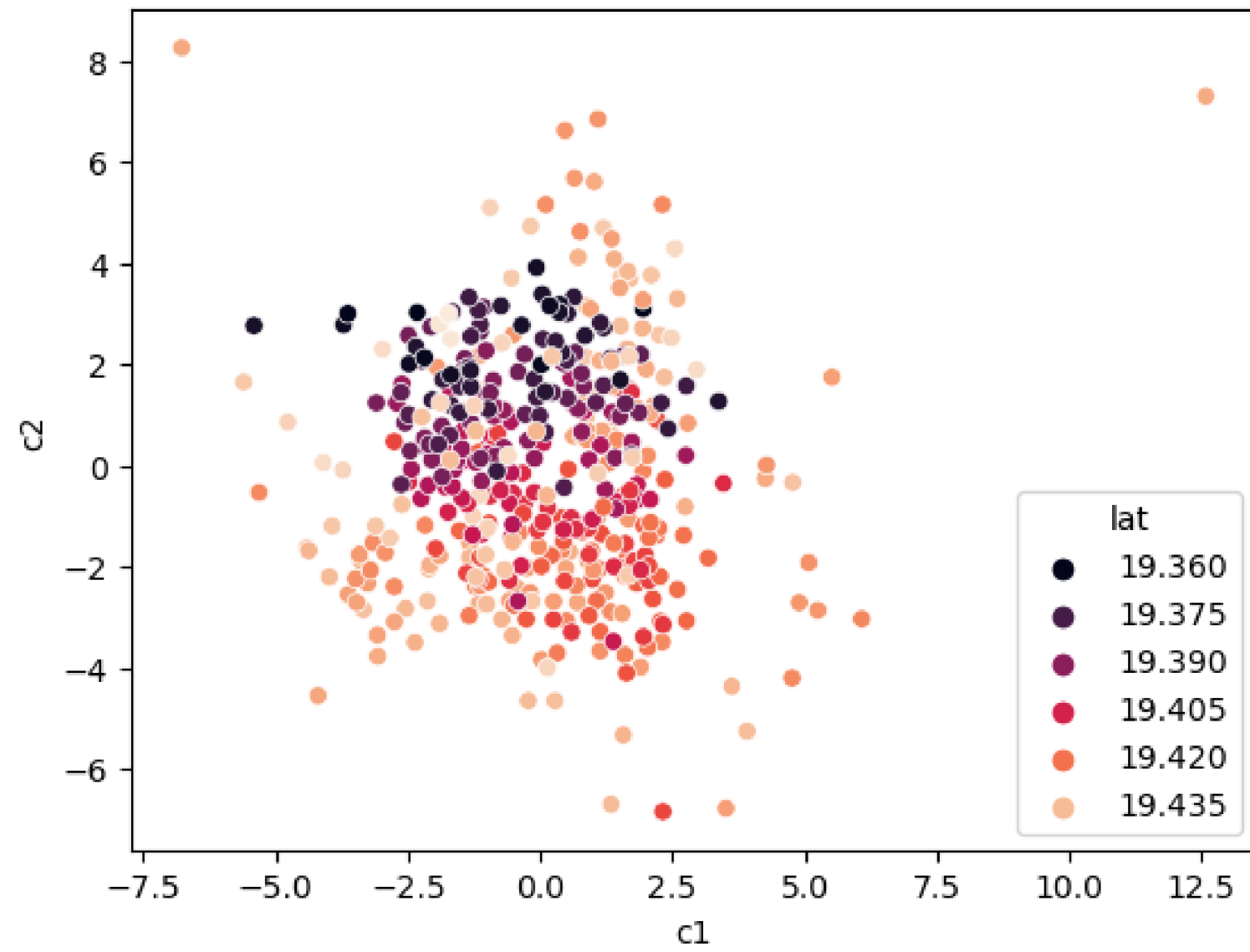
ESCLAMIENTO MULTIDIMENSIONAL



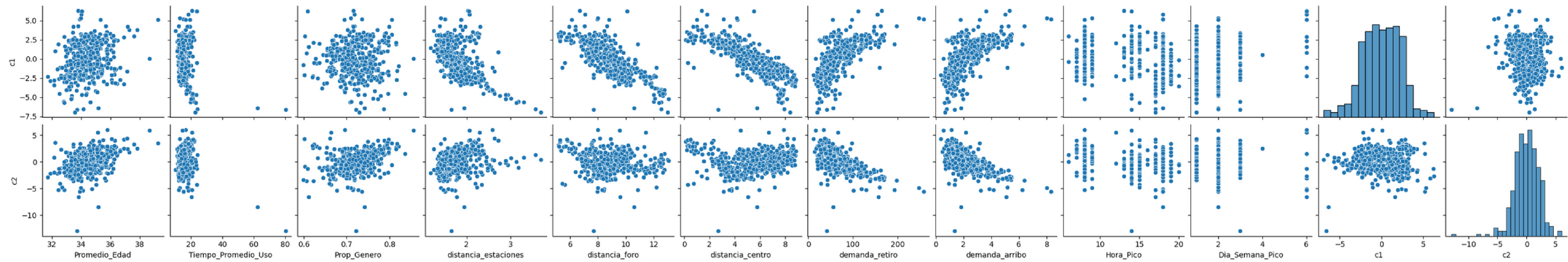


Reducción de Dimensionalidad y Proyecciones

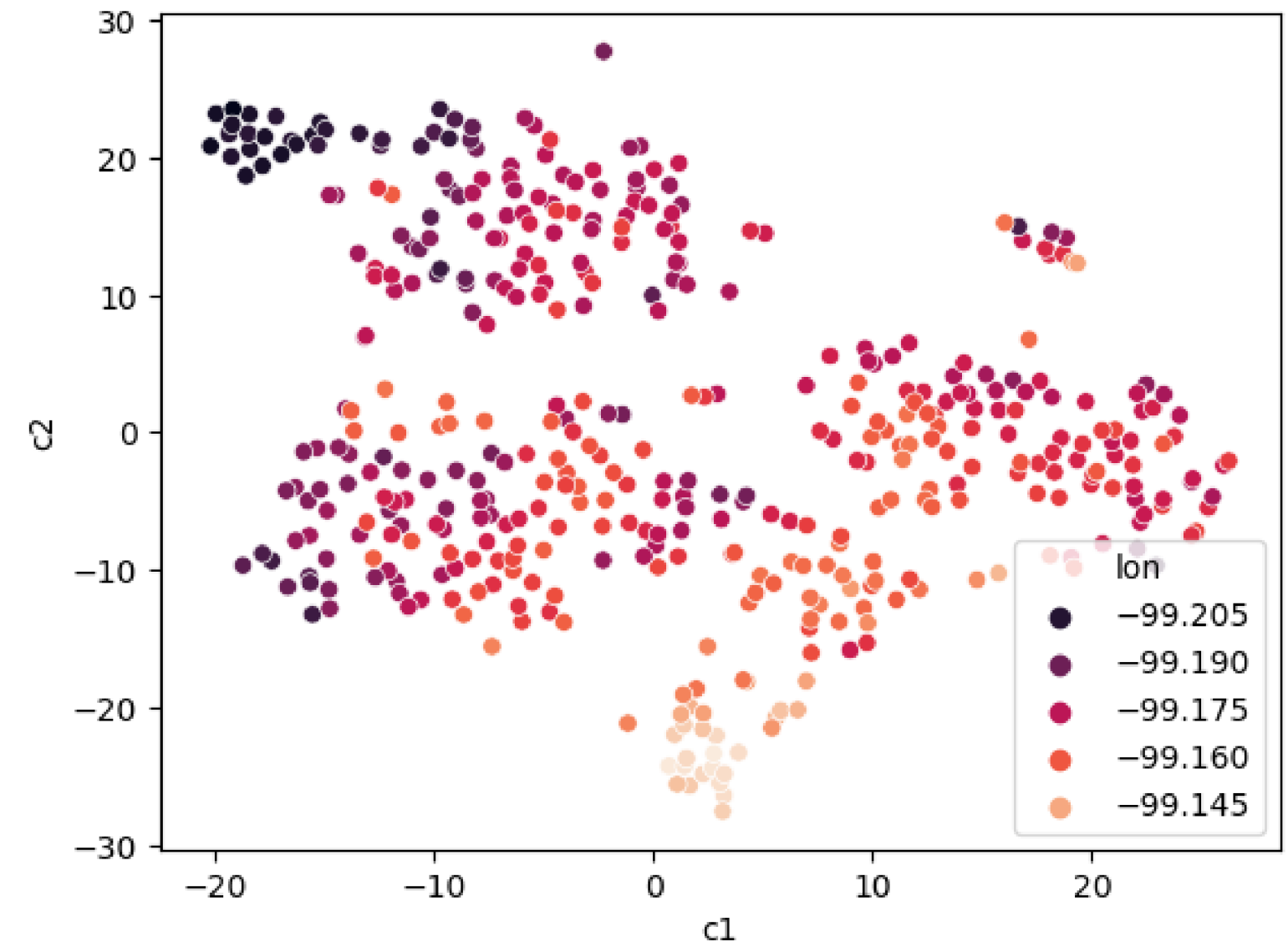
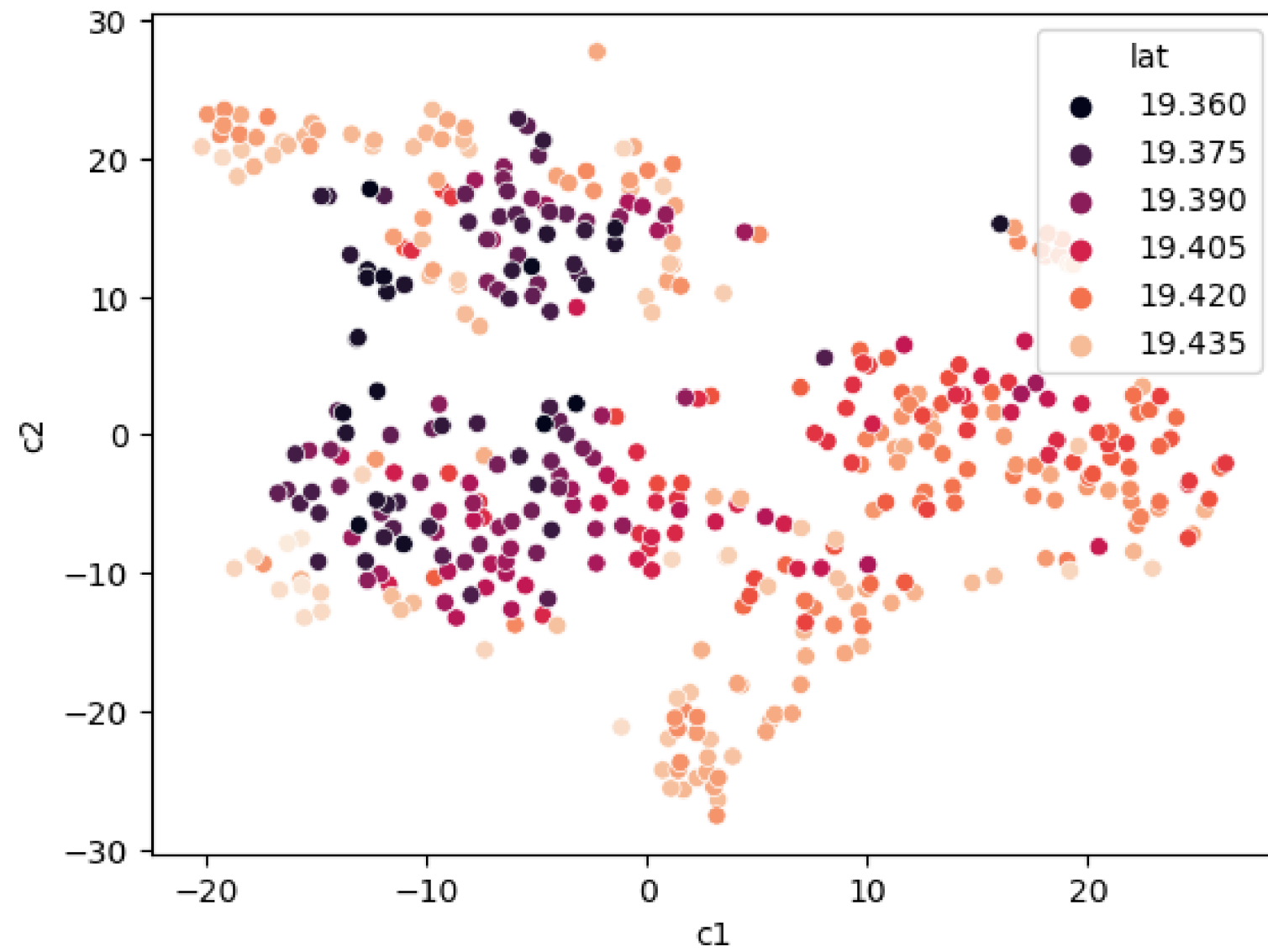
MDS



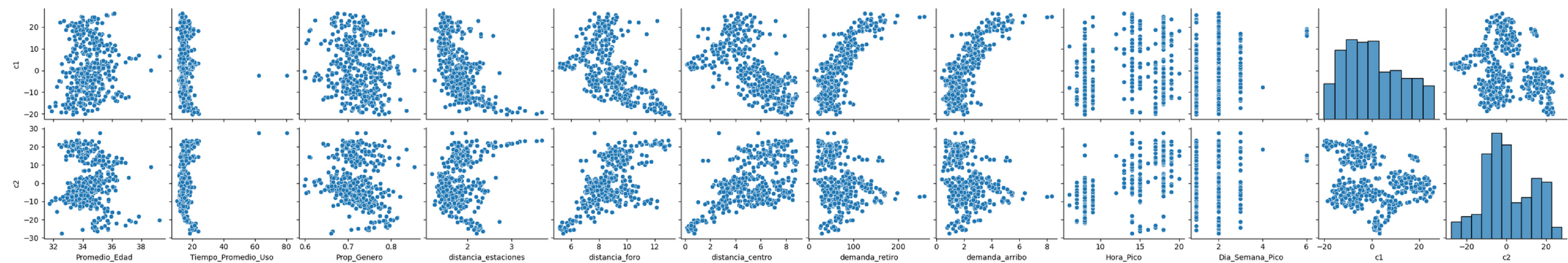
MDS



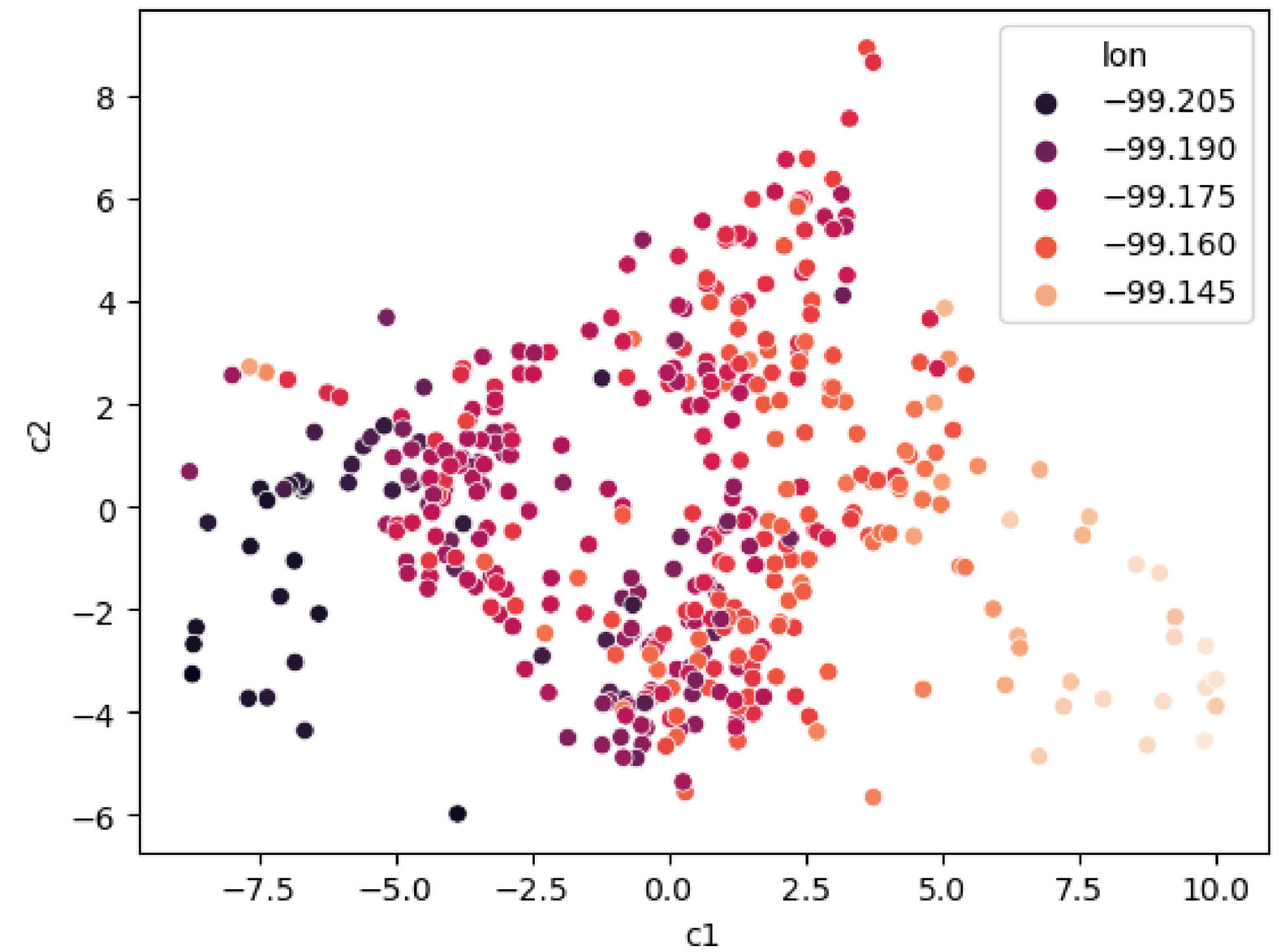
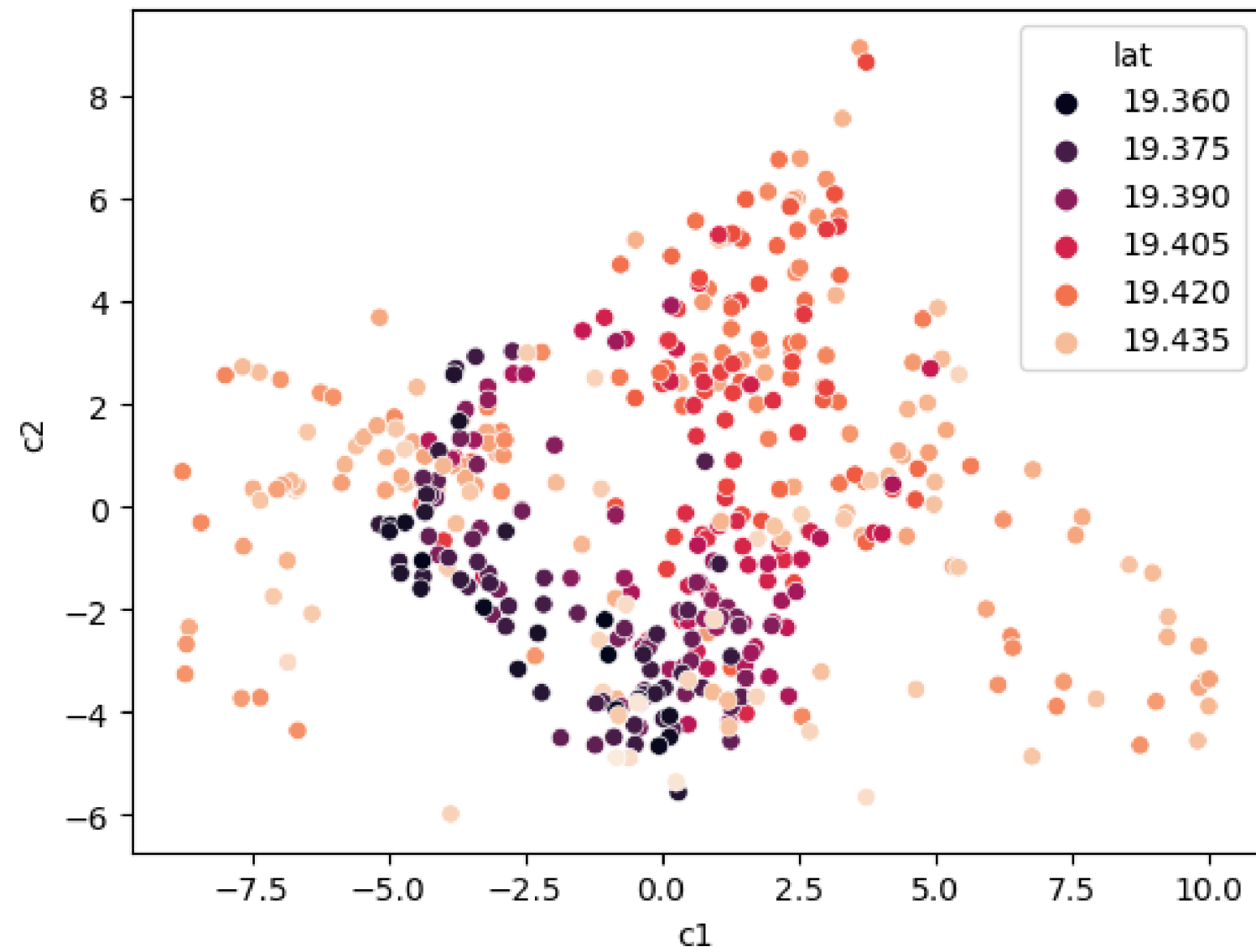
TSNE



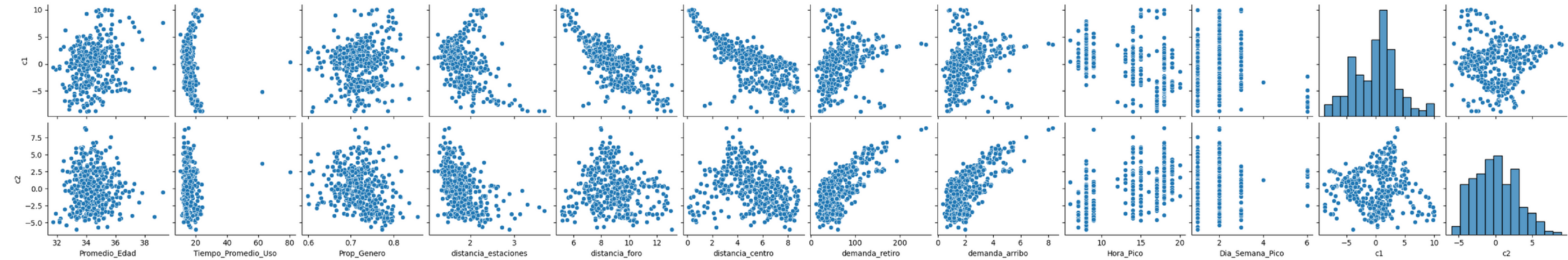
TSNE



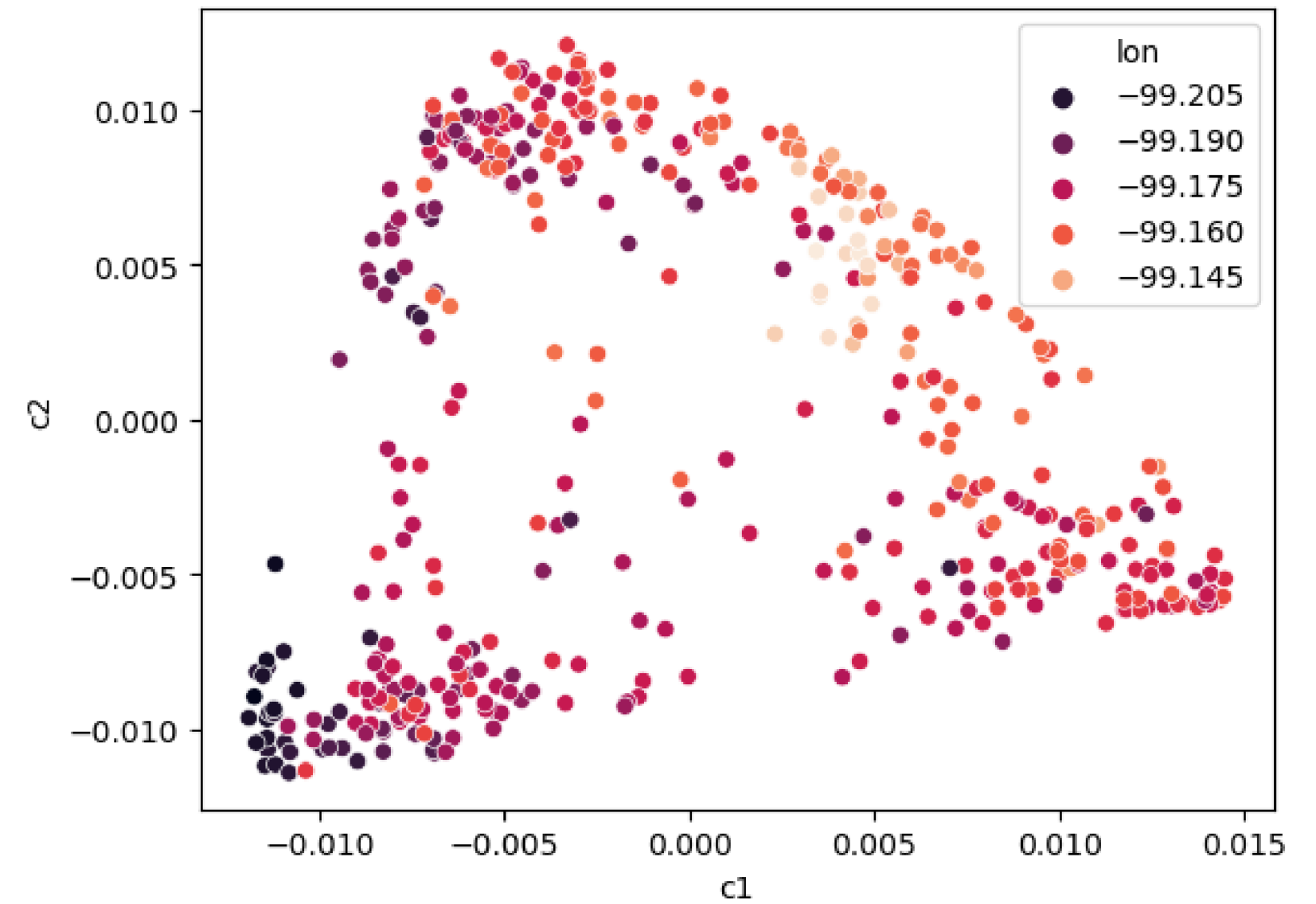
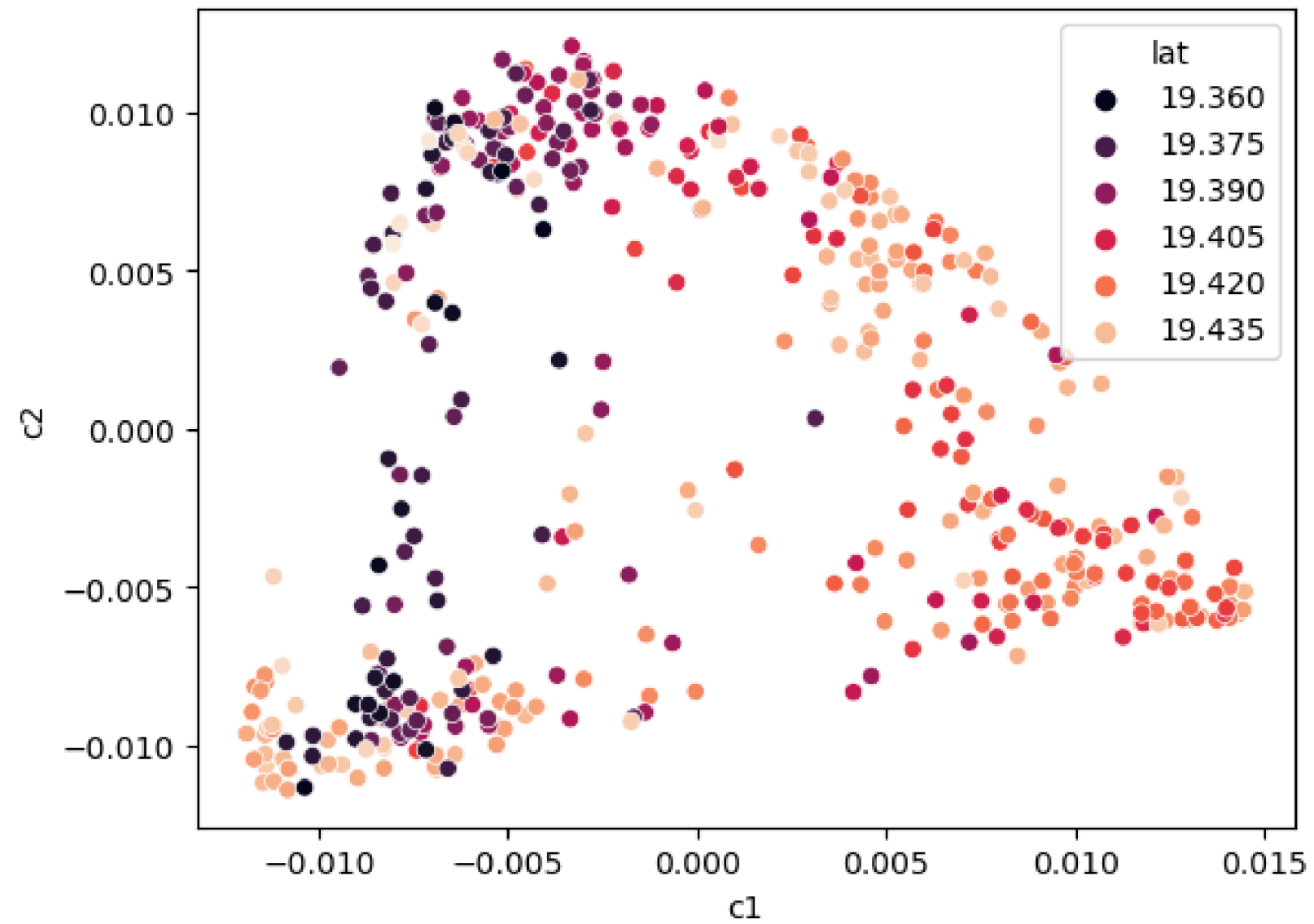
ISOMAP



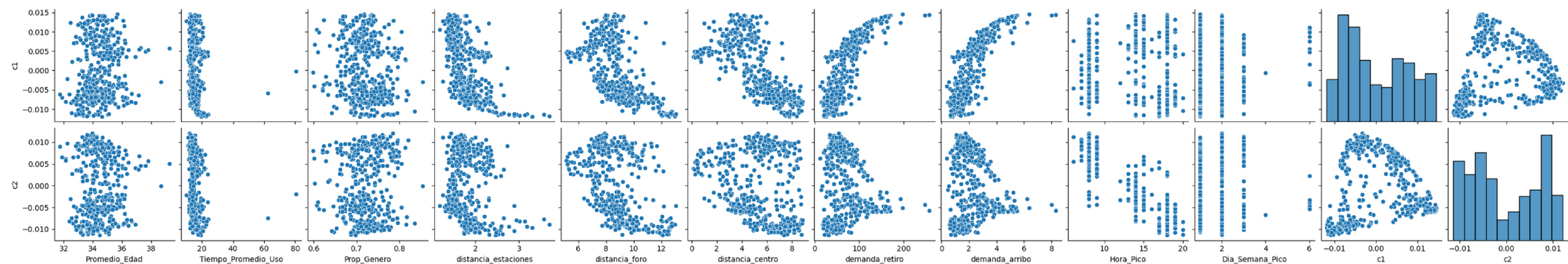
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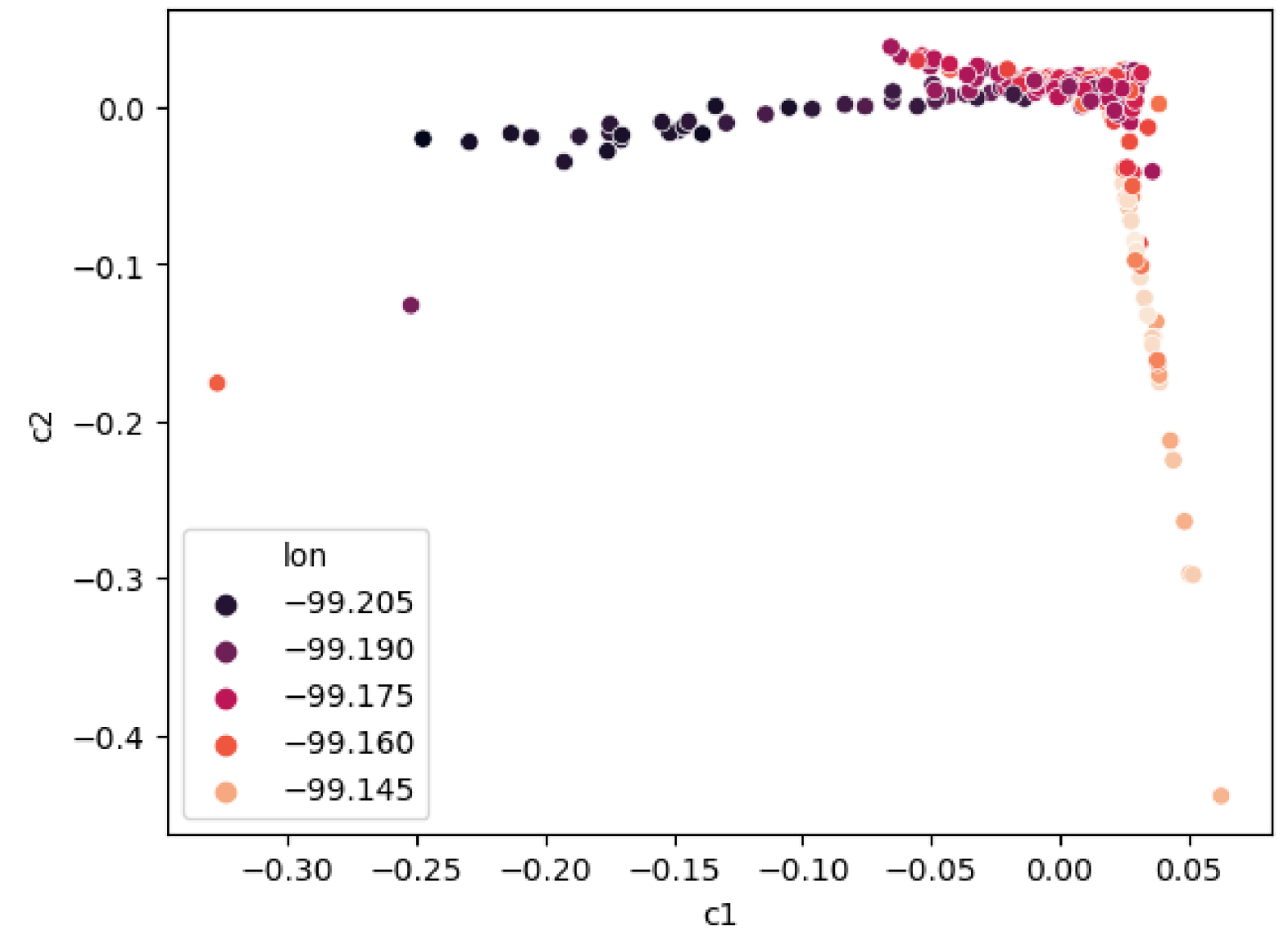
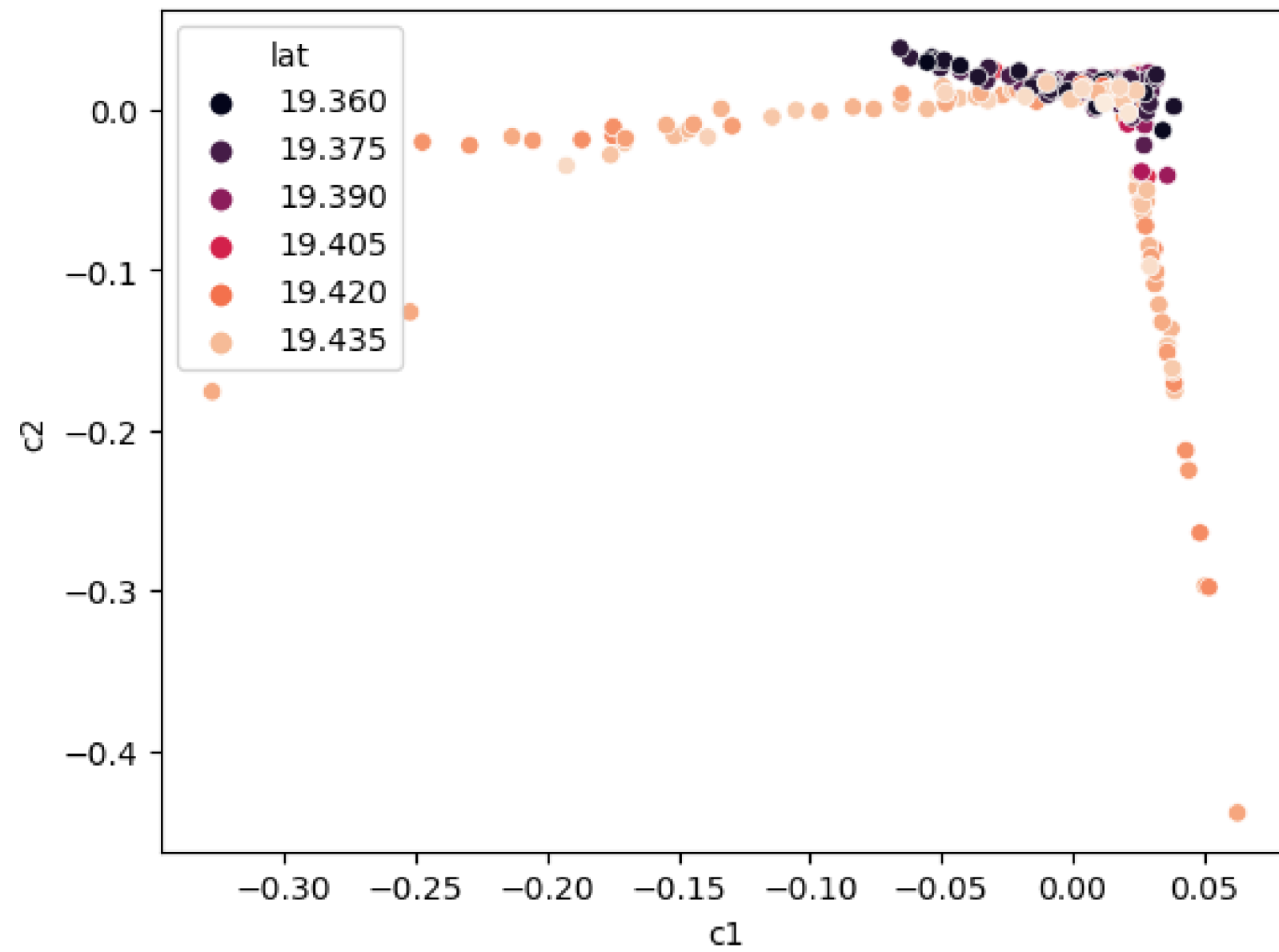
Spectral Embedding



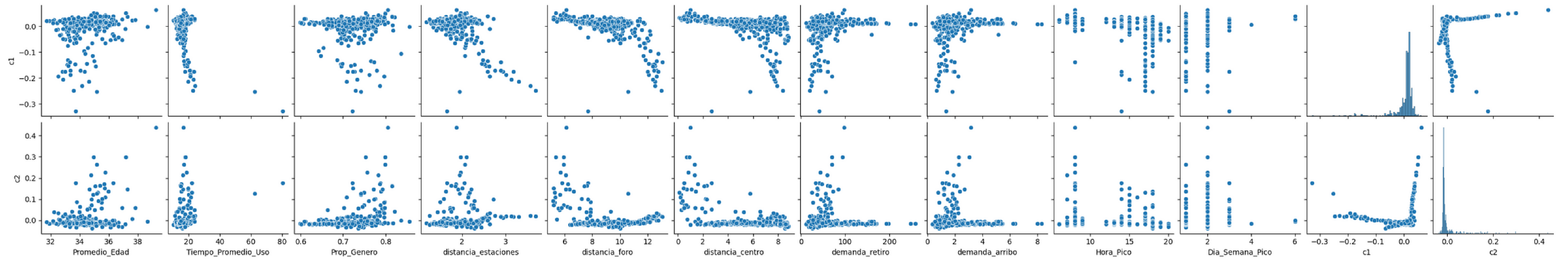
Spectral Embedding



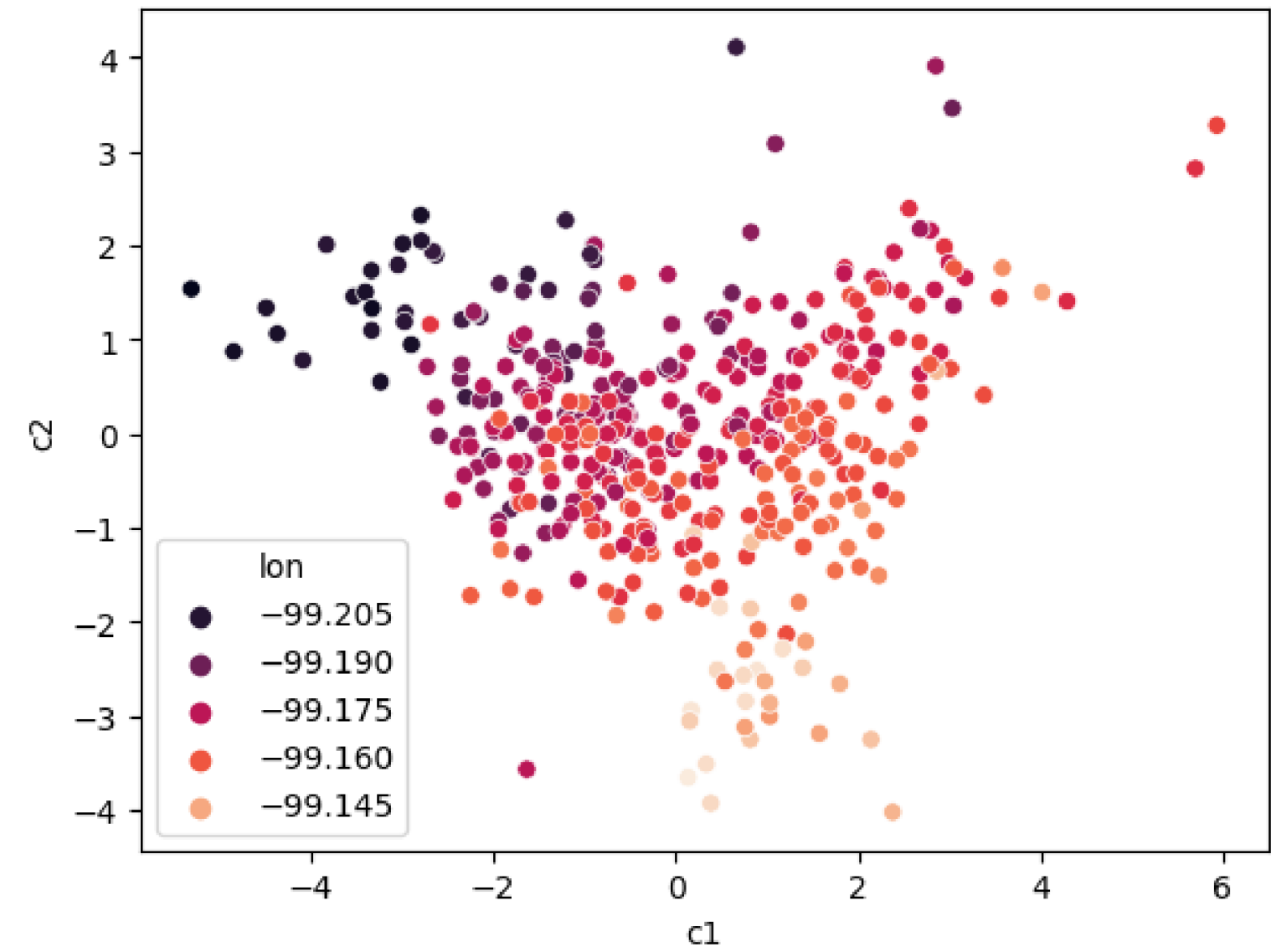
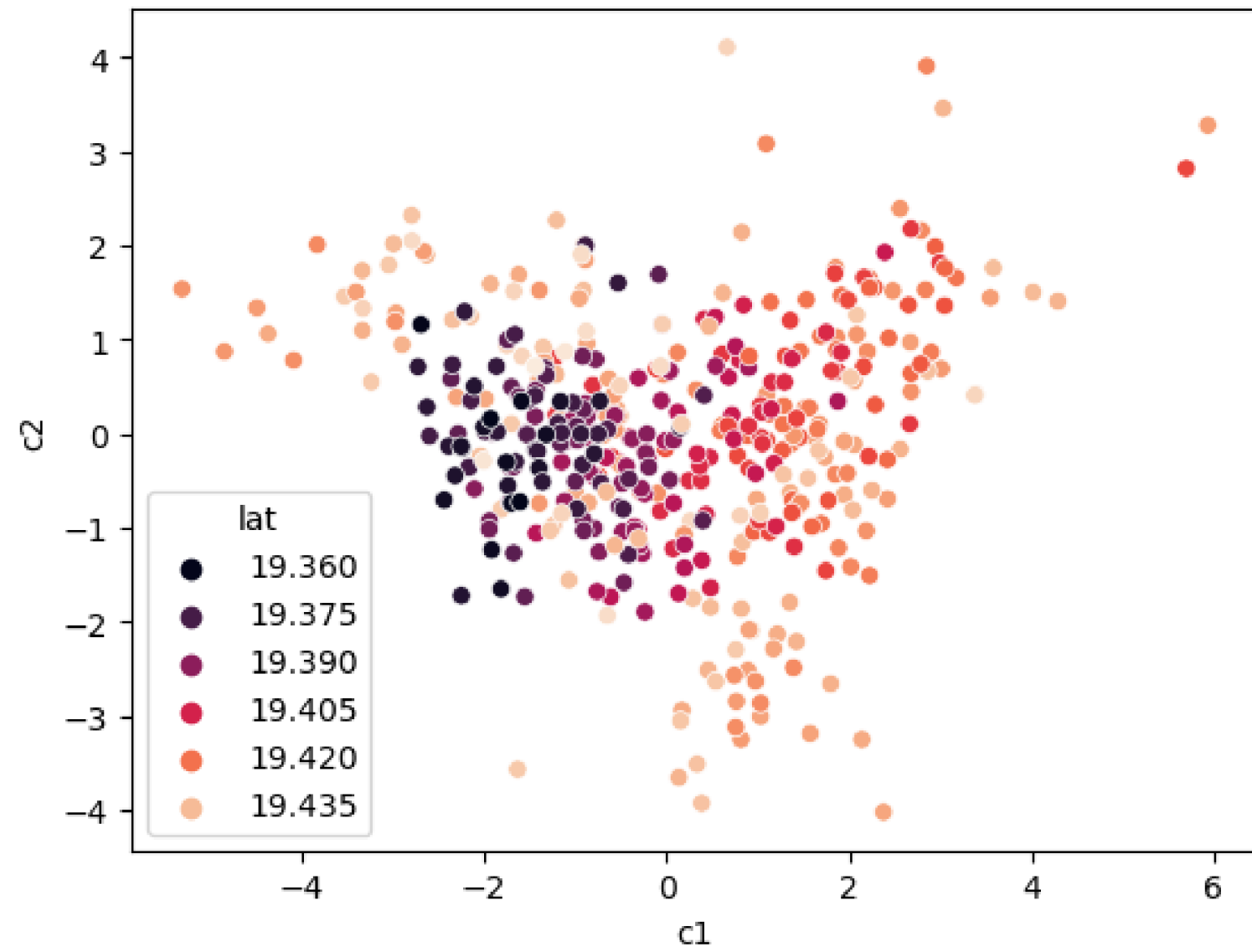
Locally Linear Embedding



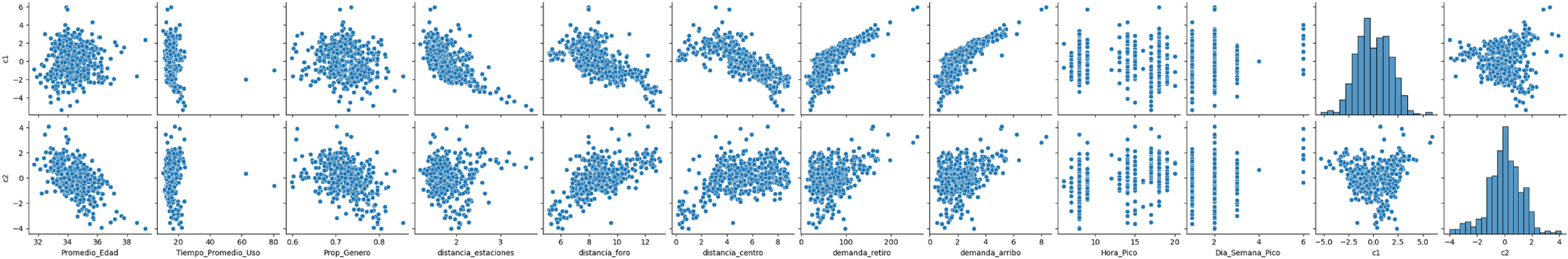
Locally Linear Embedding



PCA



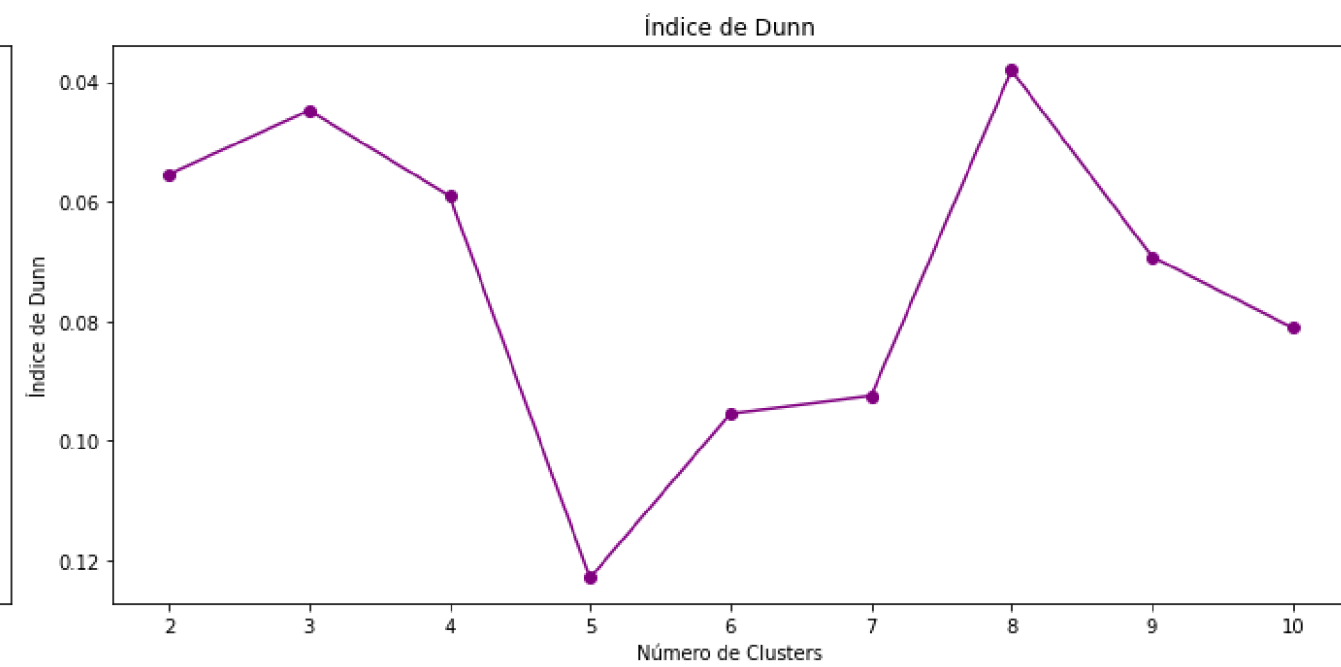
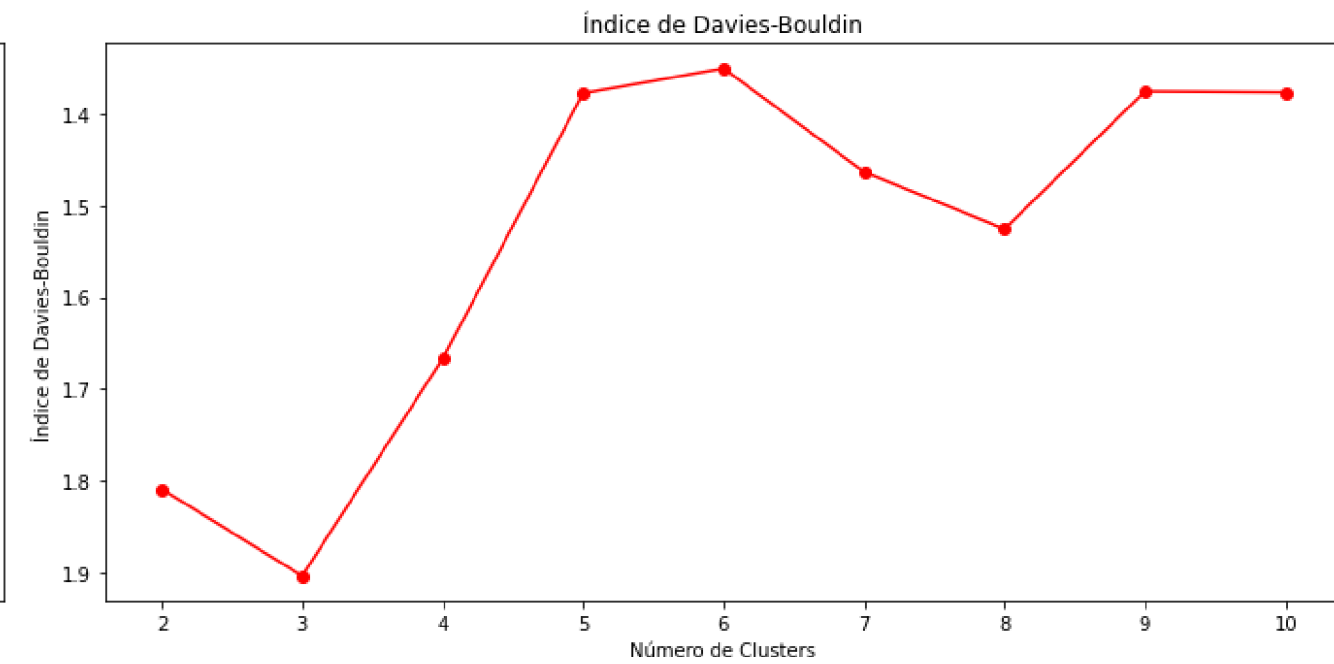
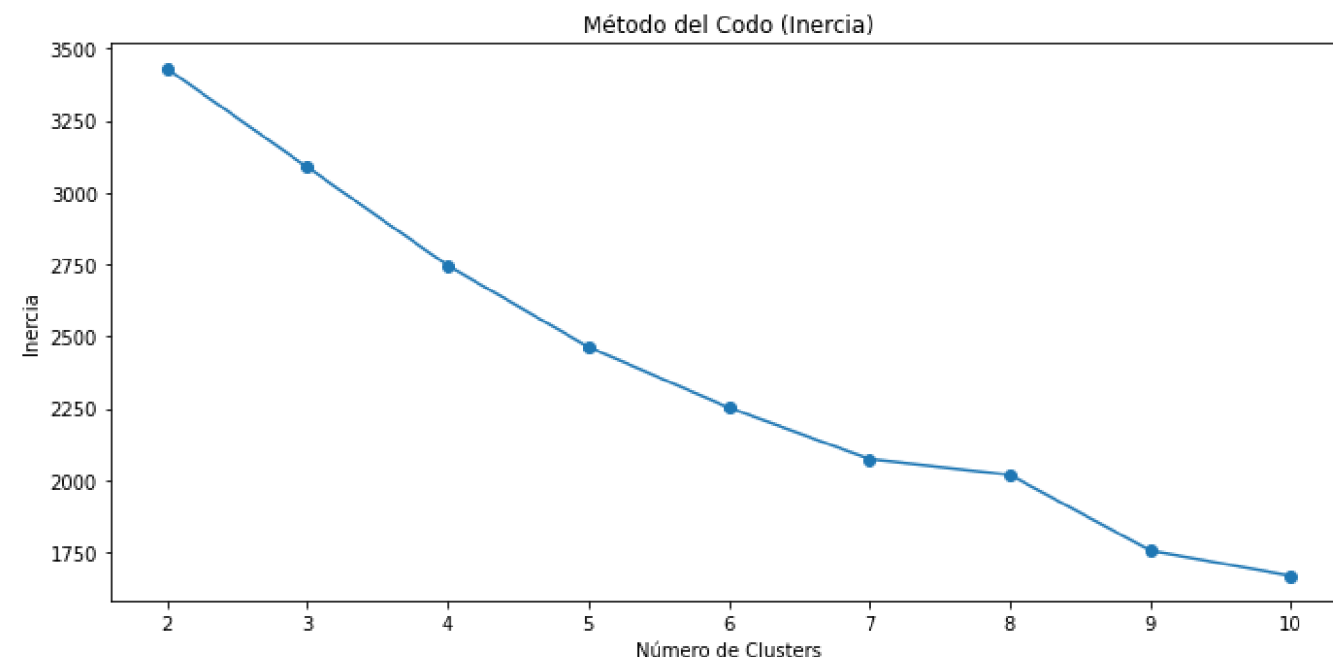
PCA





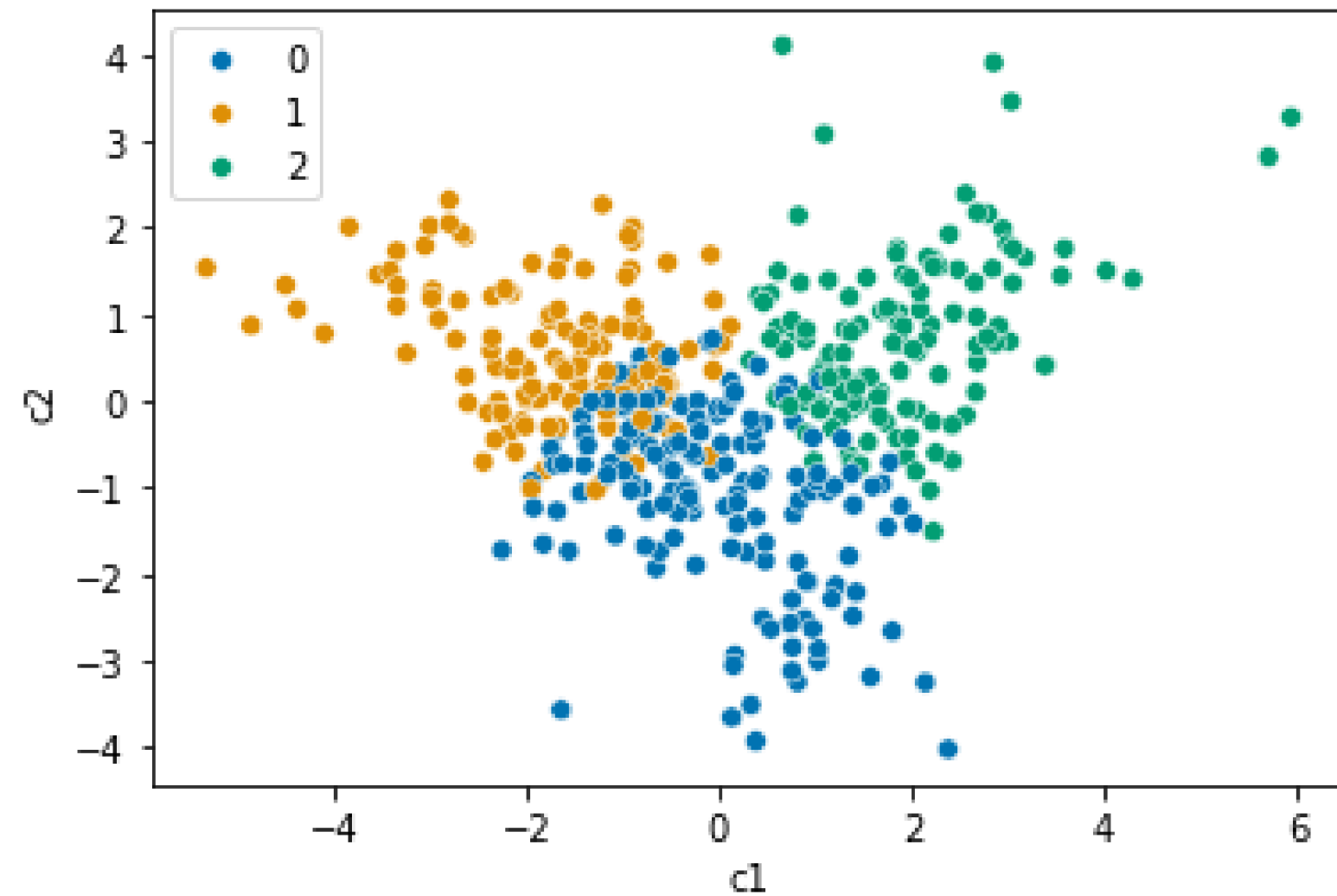
Clusterización

Kmeans

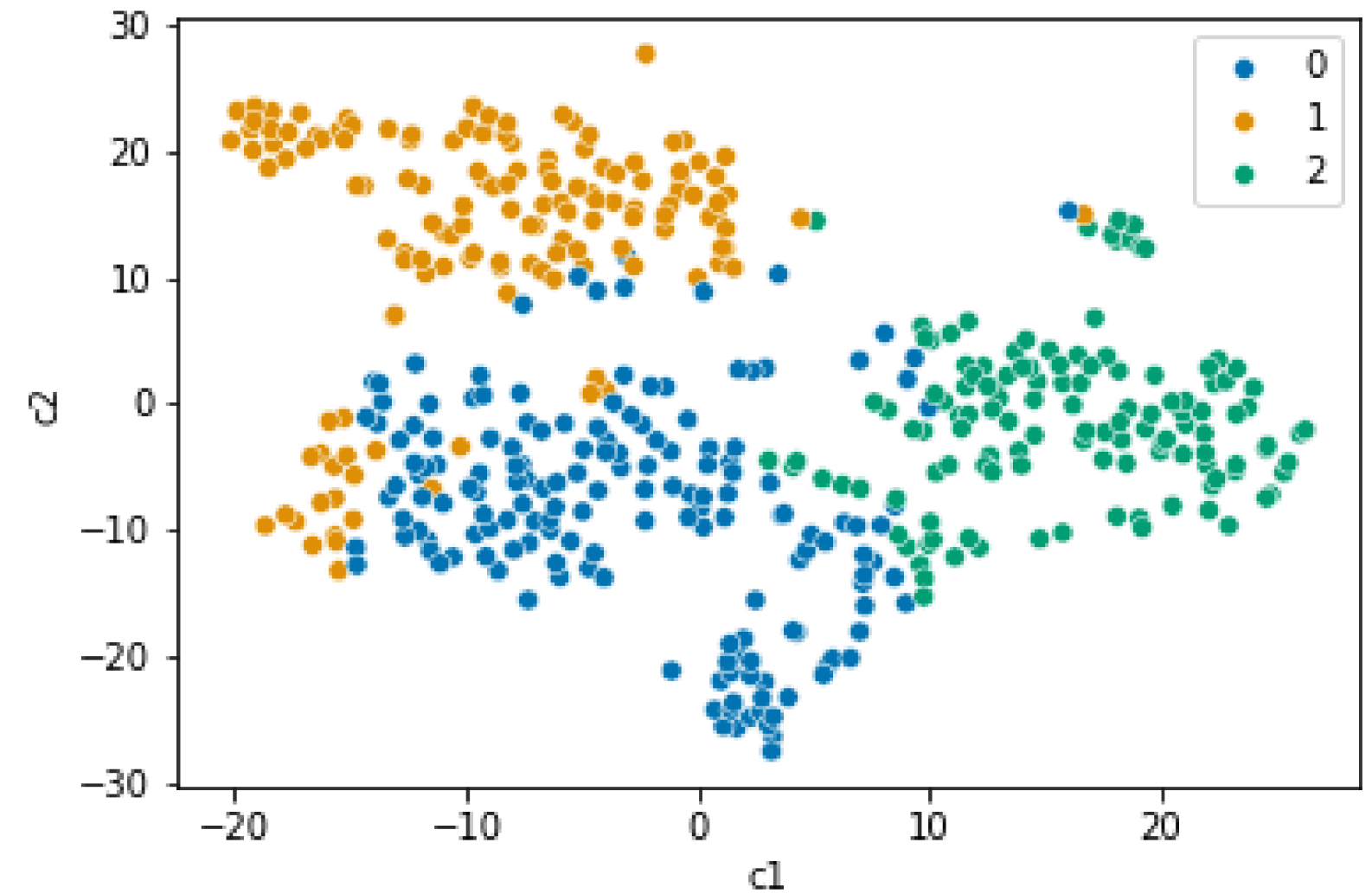


Kmeans

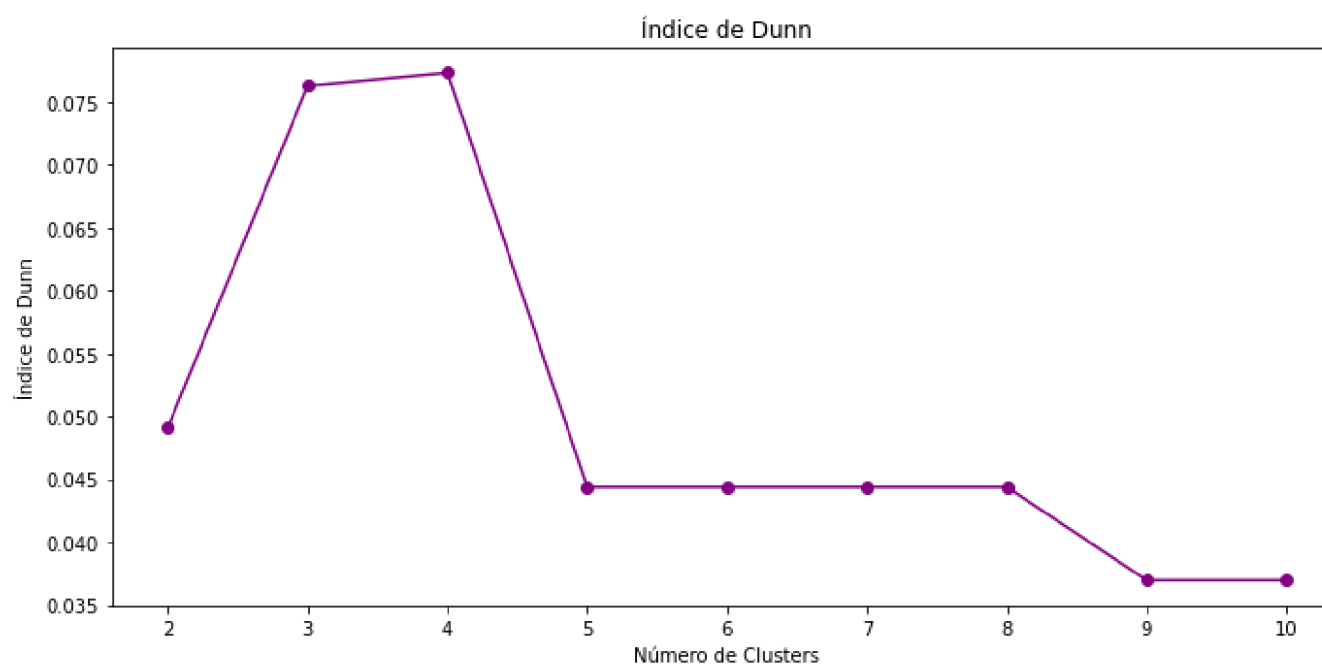
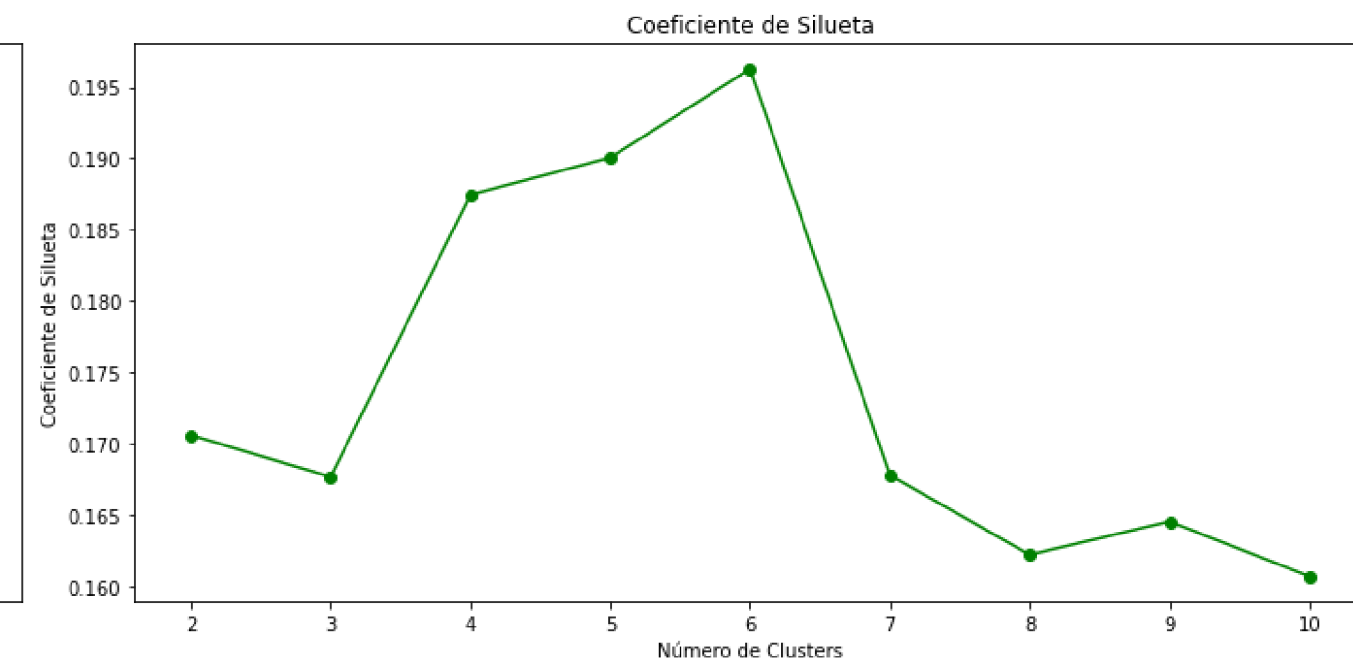
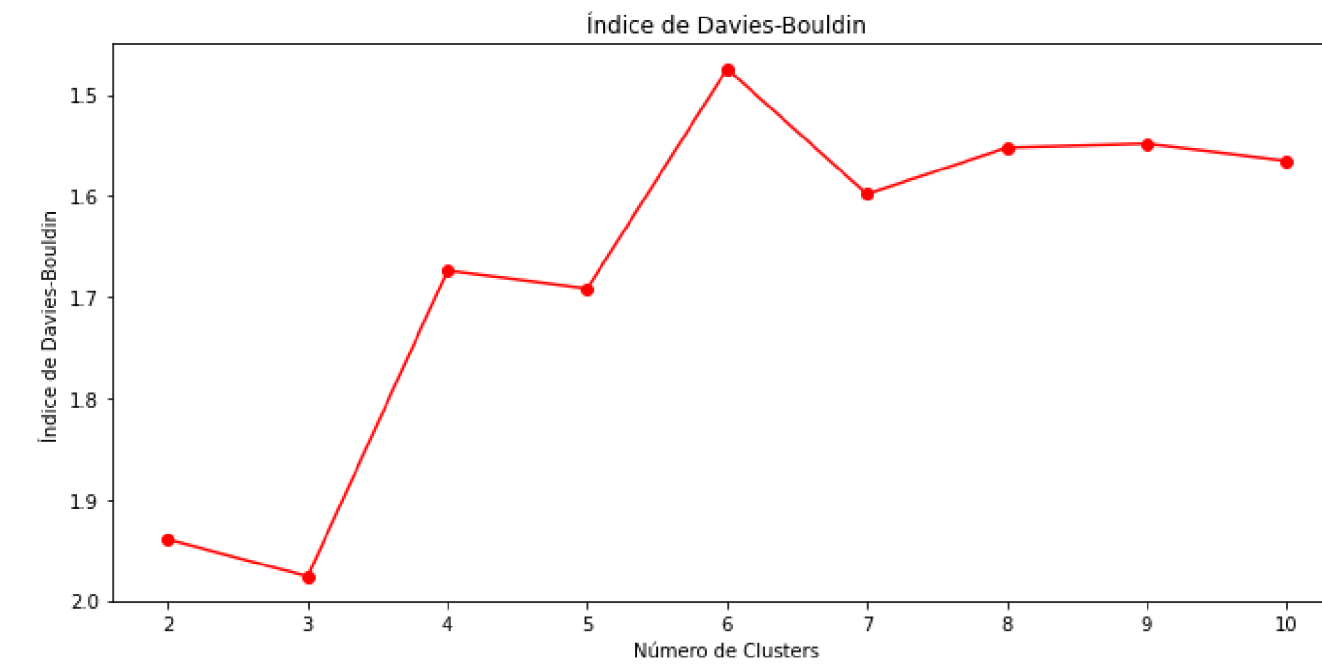
PCA



TSNE

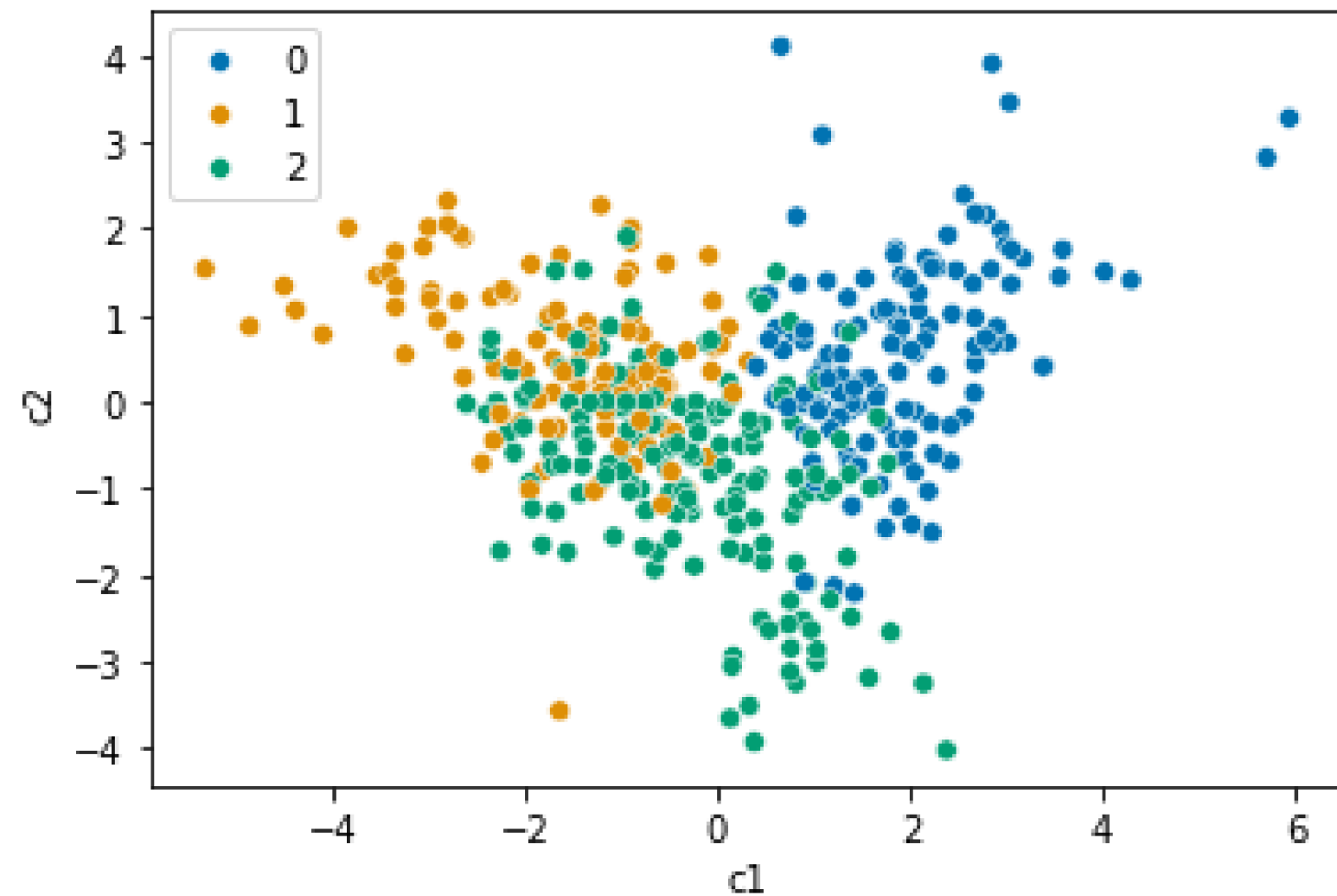


Spectral Clustering

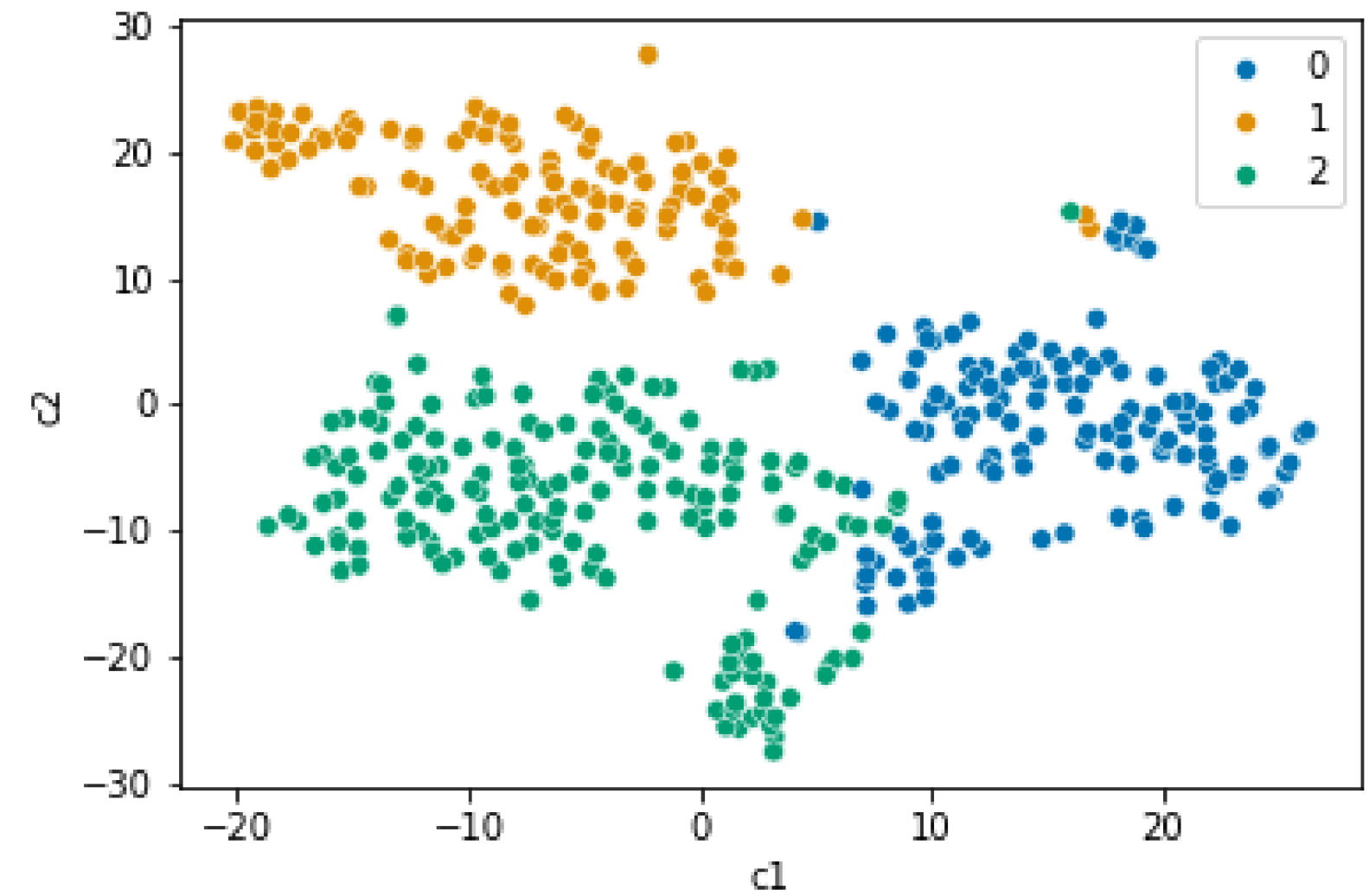


Spectral Clustering

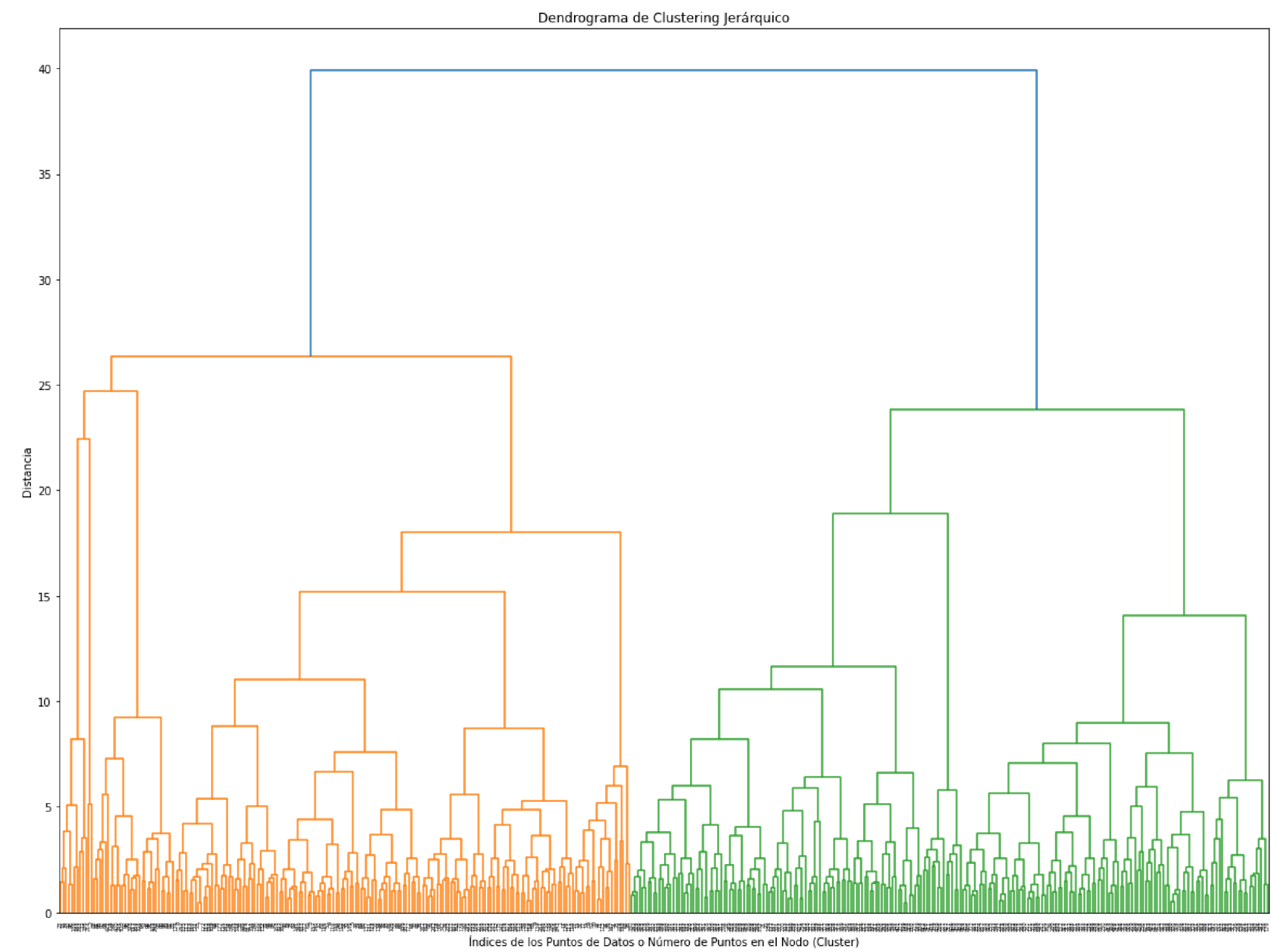
PCA



TSNE

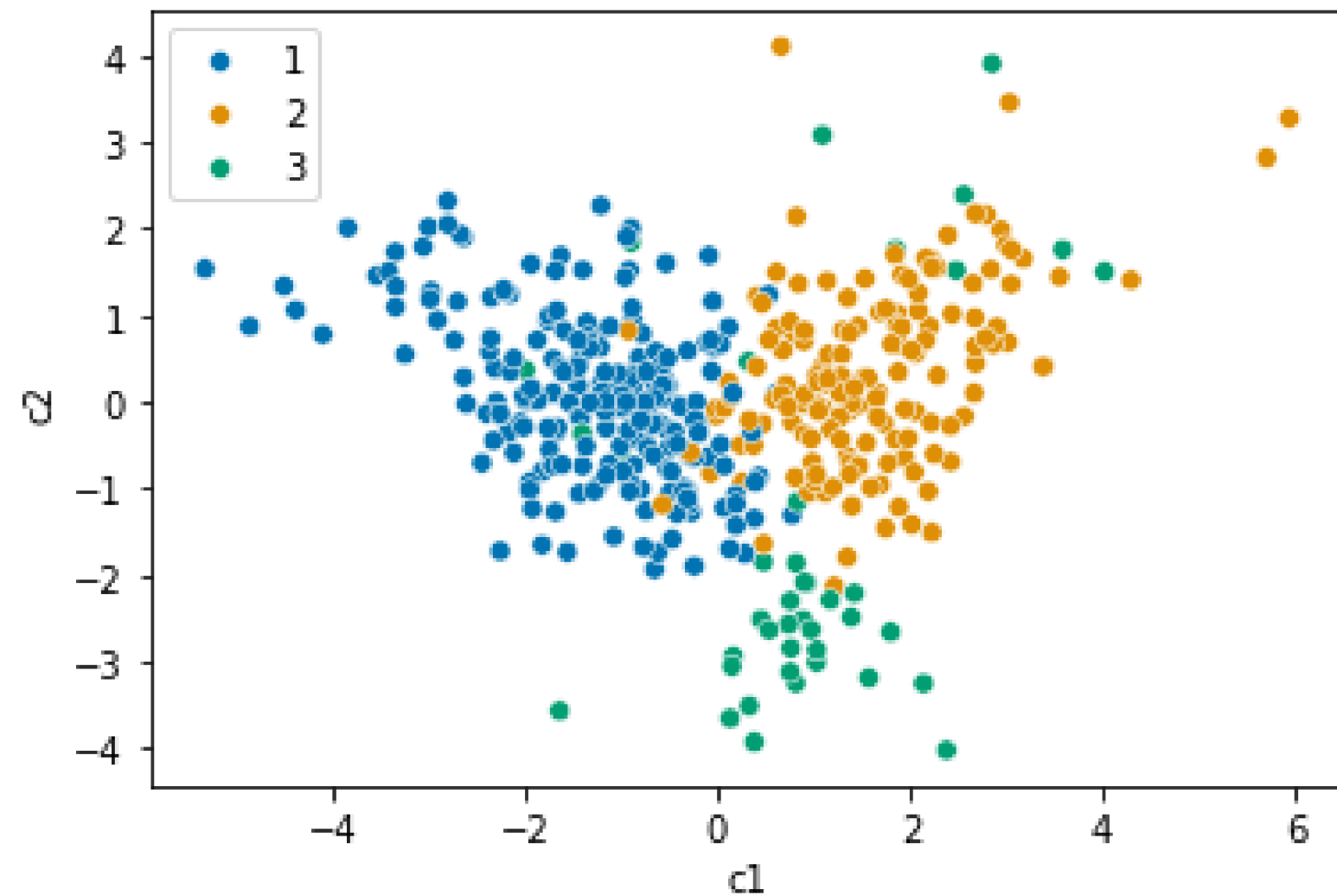


Clusterización jerárquica

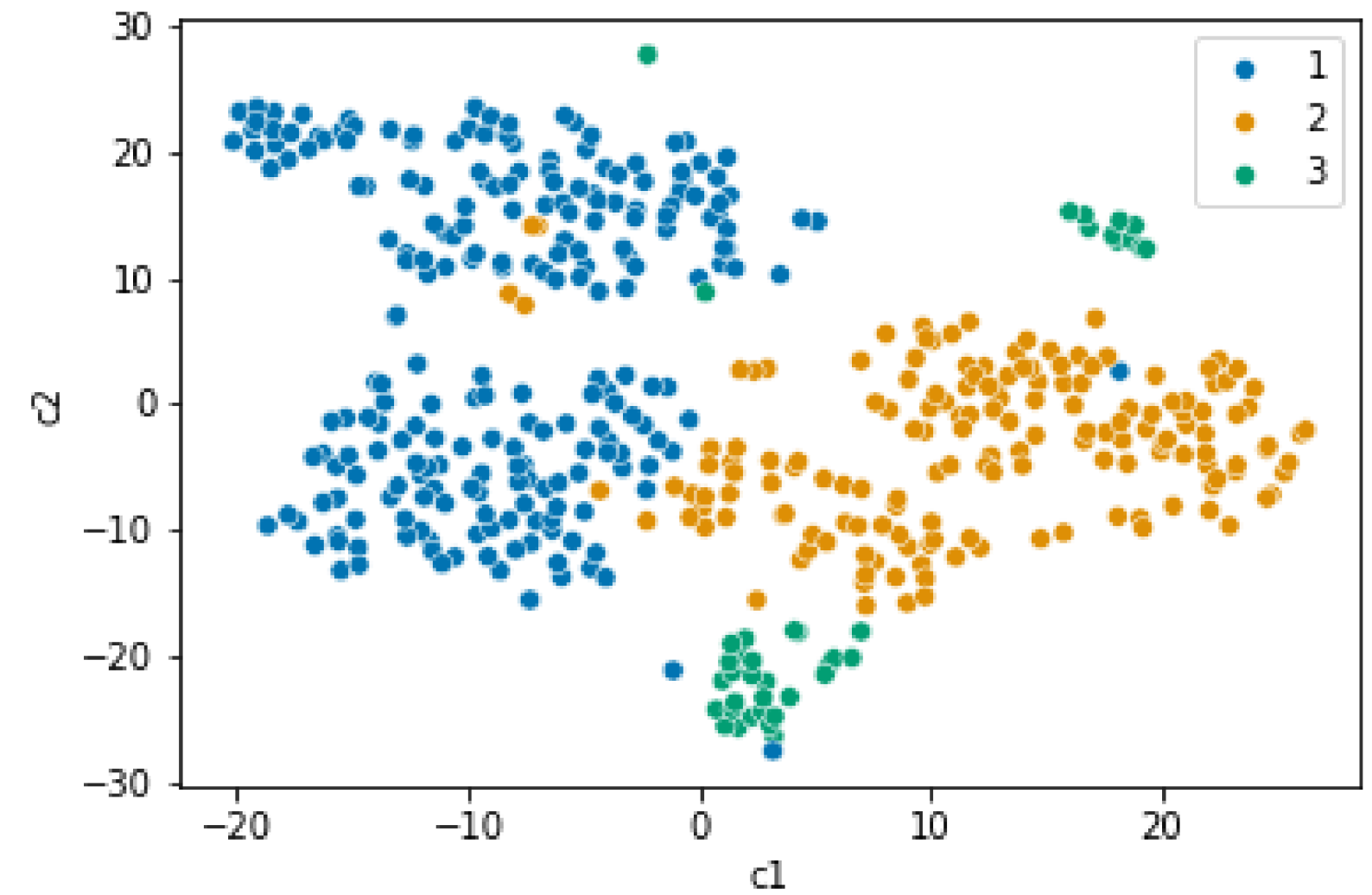


Clusterización jerárquica

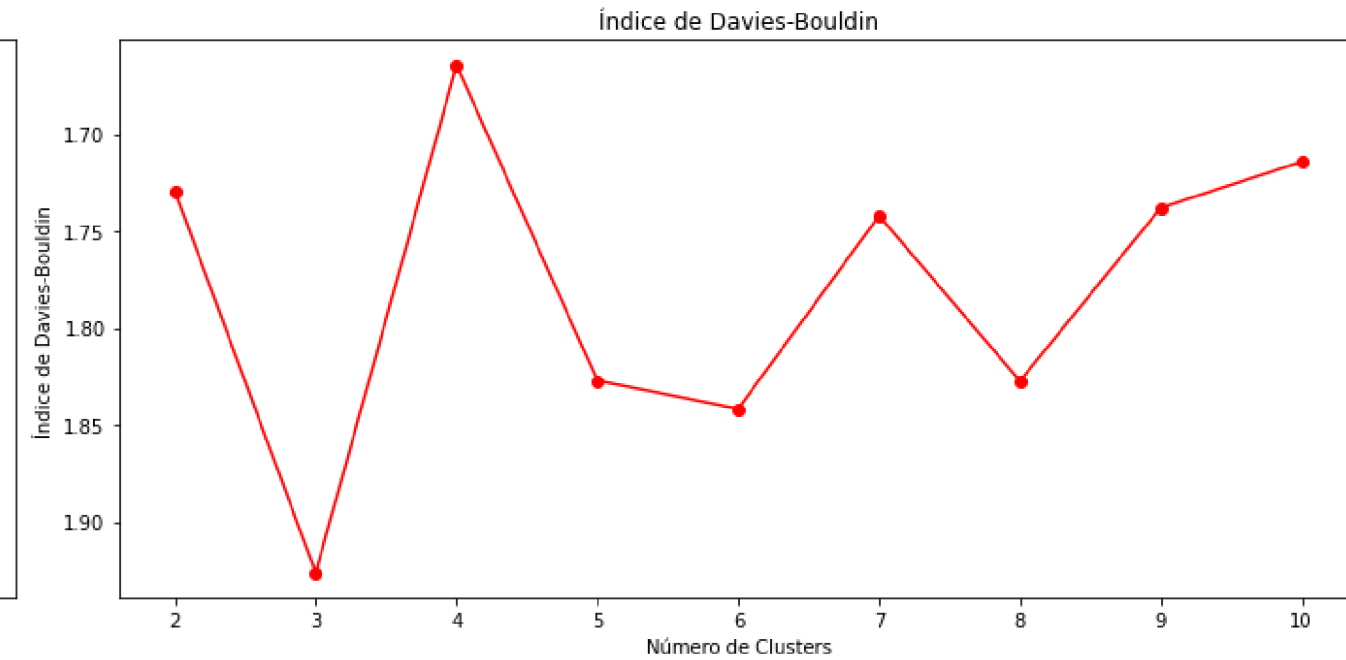
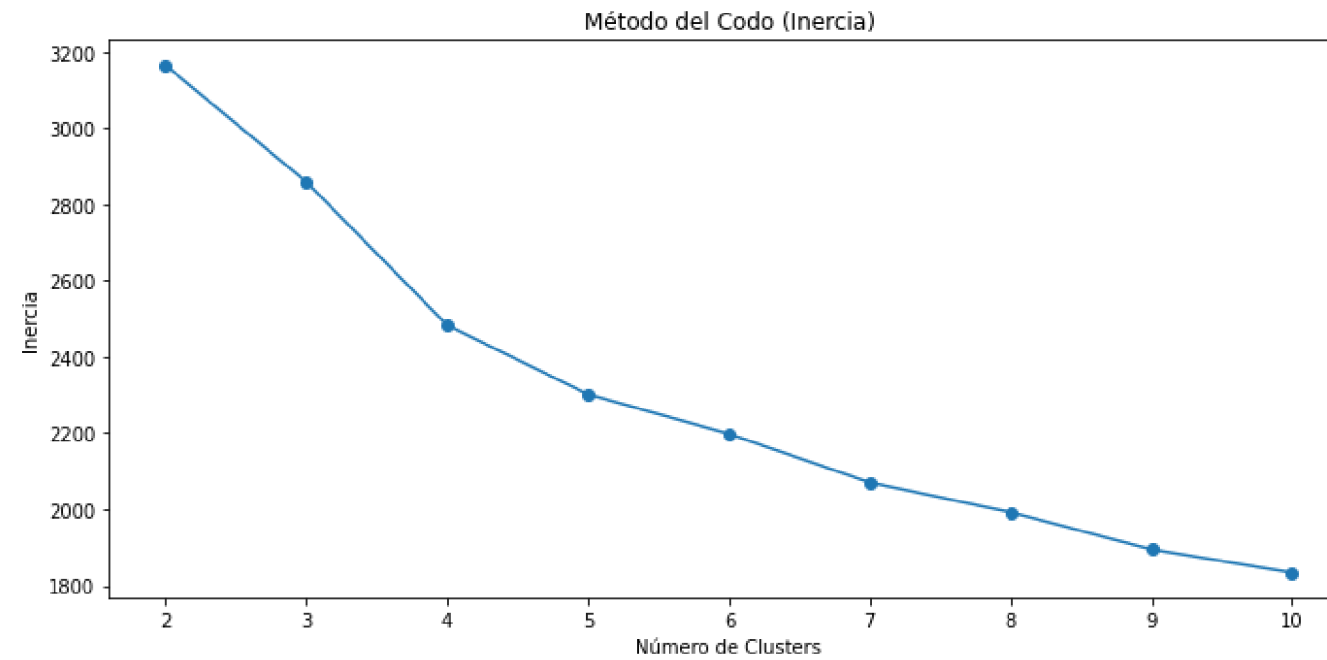
PCA



TSNE

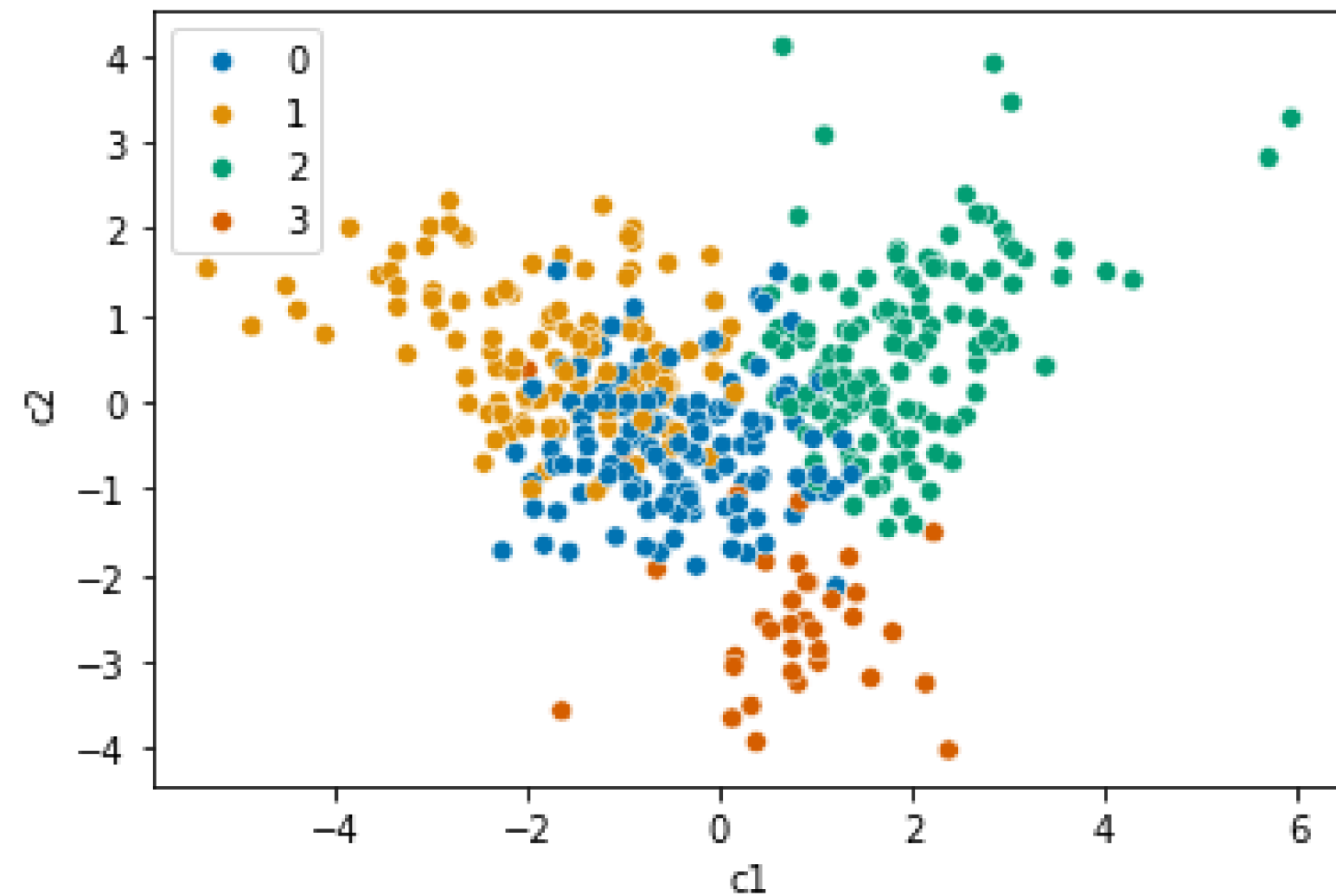


Kmeans con transformaciones



Kmeans con transformaciones

PCA



TSNE

