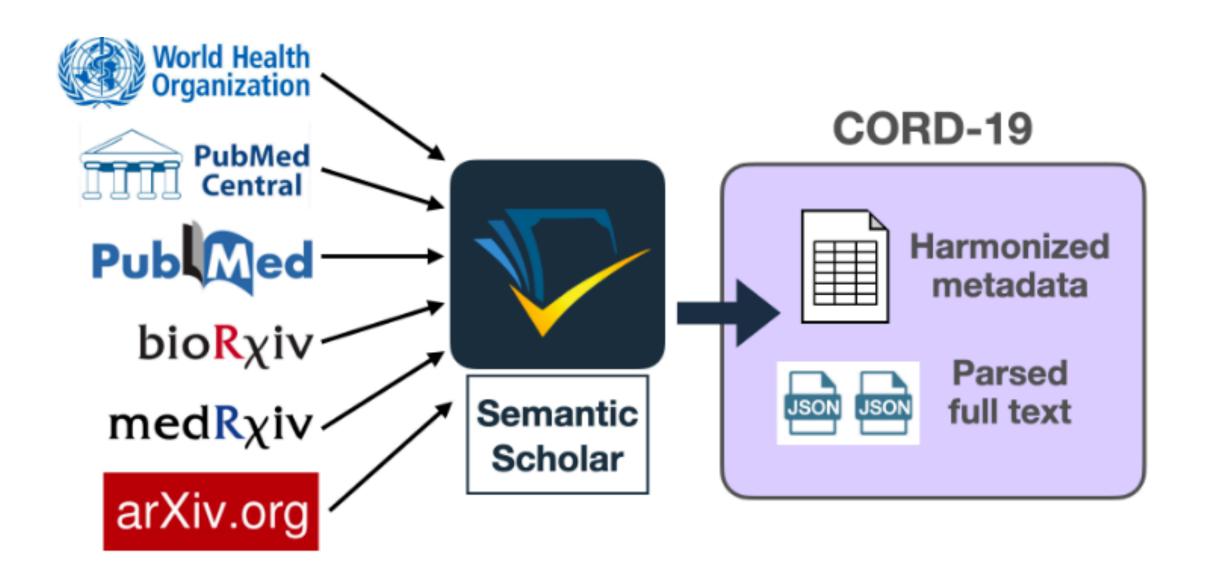
# Scientific Research Visualization: A Case Study on Covid-19 Literature

#### **Table of Contents**

- 1. Introduction
- 2. Text mining
- 3. Clustering
- 4. Visualization platform
- 5. Conclusions and future works

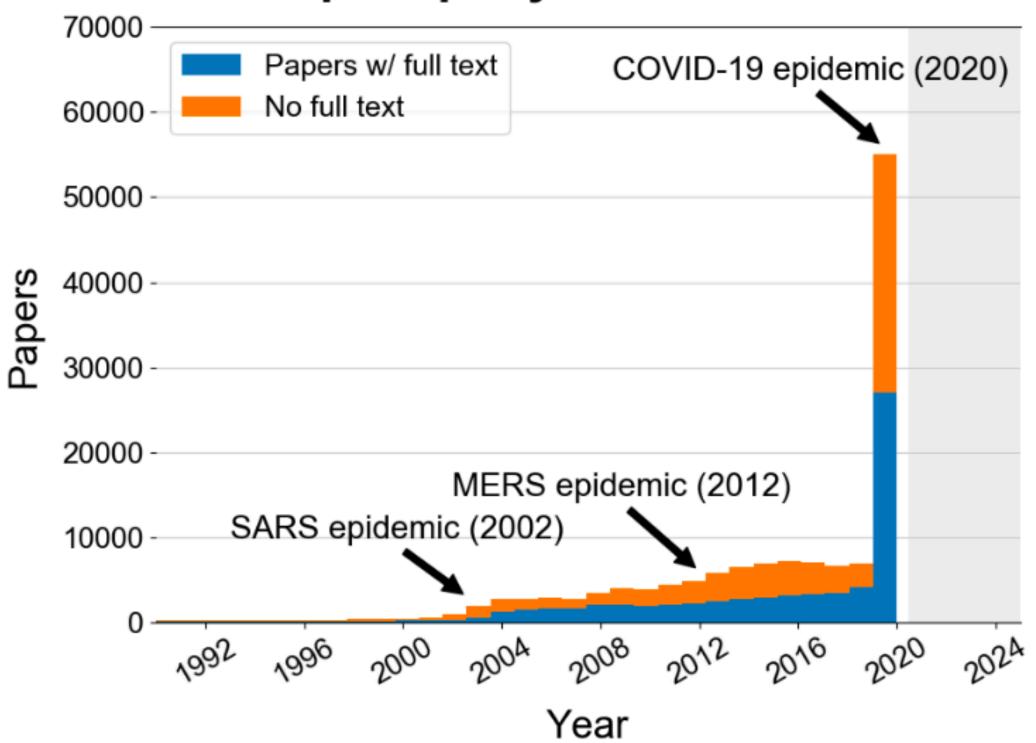
## Mission Tracking the evolution of the scientific research along the time using a visualization platform

#### 1. Introduction



Papers and preprints are collected from different sources through Semantic Scholar. Released as part of CORD-19 are the harmonized and deduplicated metadata and full text JSON. [1]

#### Papers per year in CORD-19

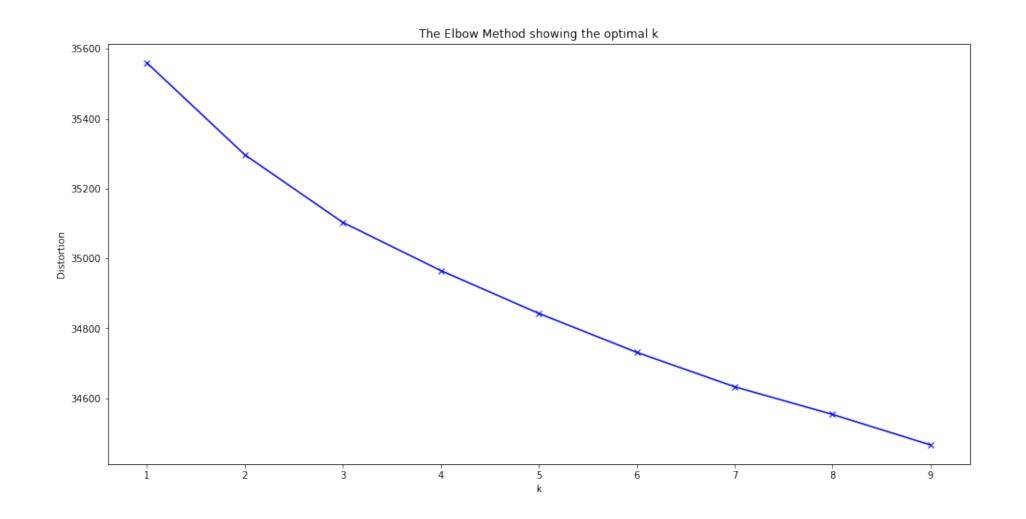


The distribution of papers per year in CORD-19. A spike in publications occurs in 2020 in response to COVID-19. [1]

### 2. Dataset CORD-19: COVID-19 Open Research Dataset [2]

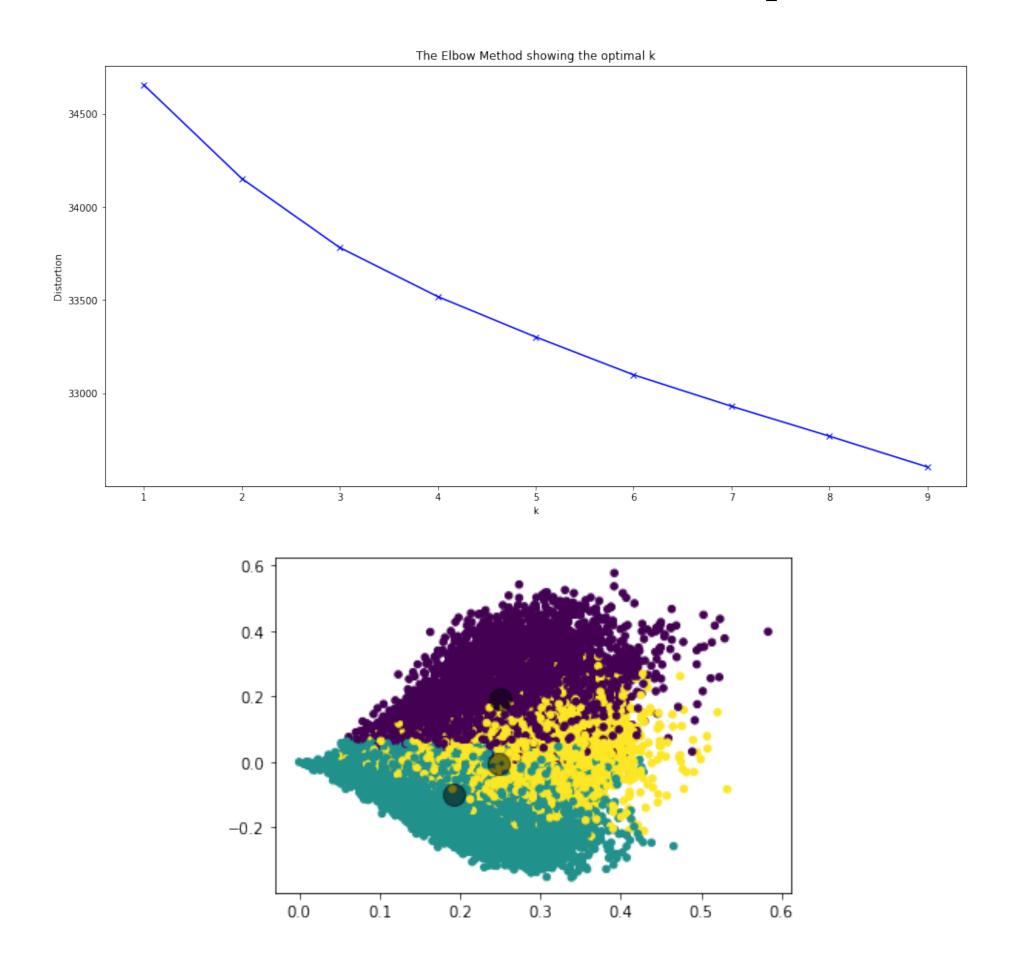
- Preprocessing
  - Tokenizing abstracts
  - Customized stopwords
  - Lemmatization
  - TF-IDF

### 3. Clustering - Original CORD-19: COVID-19 Open Research Dataset



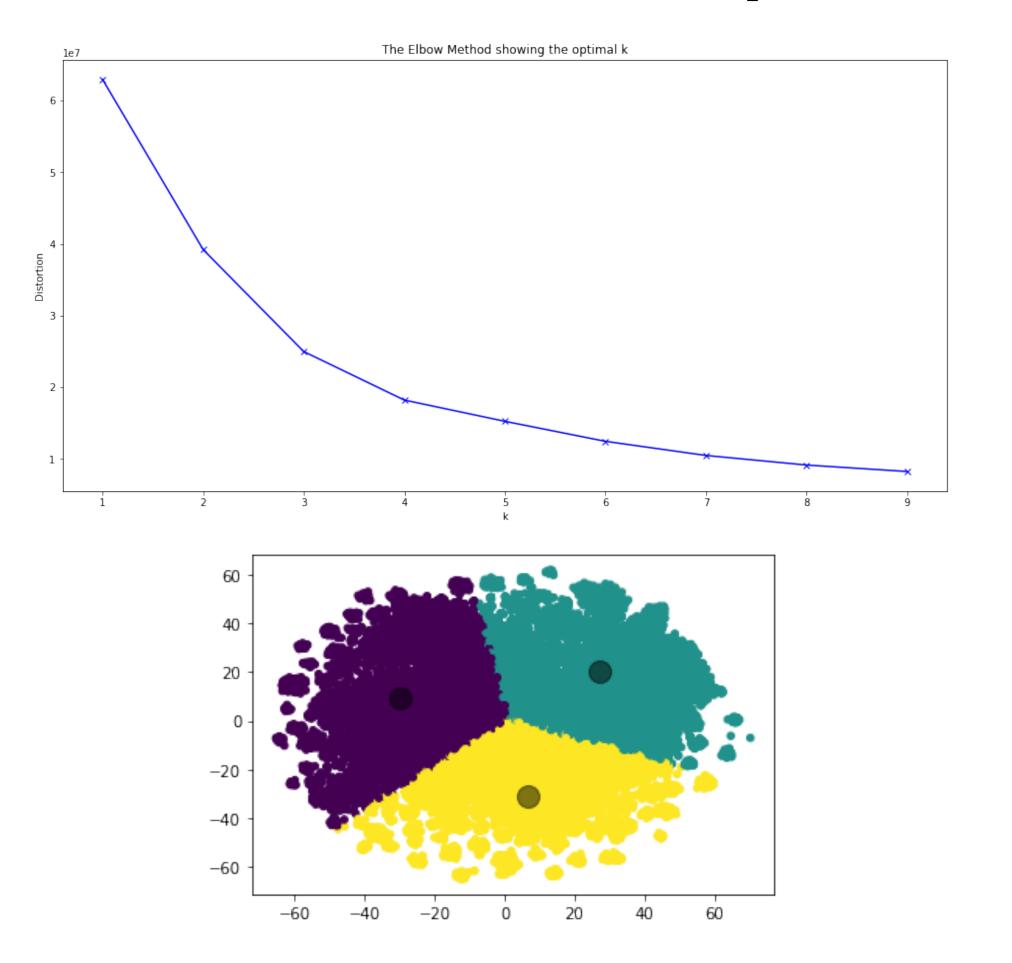


### 3. Clustering - SVD CORD-19: COVID-19 Open Research Dataset





### 3. Clustering - t-SNE CORD-19: COVID-19 Open Research Dataset

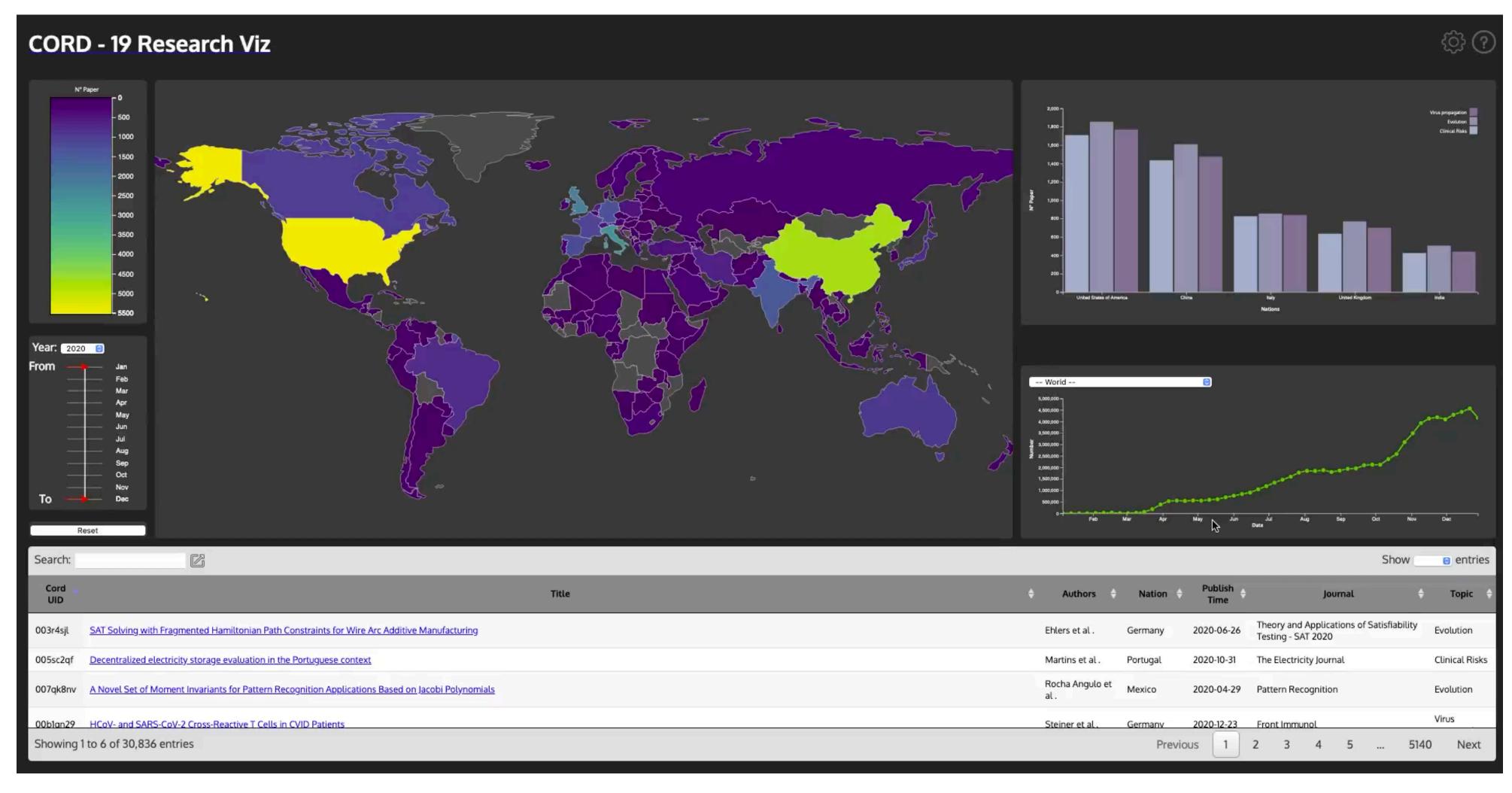




### 4. Visualization platform

CLICK ME -**CORD - 19 Research Viz** Classification Theory and Applications of Satisfiability Clinical Risks Evolution

#### 4. Visualization platform - Demo



#### 5. Discussion and conclusion



A different point of view to see the scientific research



Huge amount of data



Topic classification



Serverless



Possible generalization



Applying a NN

### Thanks