

## Group A3D: Domain and Data Selection

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### Domain of Interest

We have chosen the domain of interest to be Research Papers and Nobel Prizes over the years.

We are curious about exploring correlations between Nobel Prizes and Research Papers published in the same years, as well as analyzing how affiliations to certain organizations or countries may help researchers in reaching this goal.

### Main Challenges

We aim to address questions such as: "Is a Nobel Prize topic one that has been extensively studied in a given year, or is it a 'stroke of genius' from the winner?" "Which venue has published the most papers by Nobel Prize authors?" "Are there any organizations that are leading this field?"

We will also analyze whether countries that invest more in Research and Development produce a higher number of scientific papers or Nobel Prizes, additionally, it is interesting to investigate whether Nobel Prize winners collaborate with each other or if their works inspire others through citations.

### Data Characteristics

For each Nobel Prize we have several information like:

- the year
- the category
- the winner
- the winner organization

Similarly, for each Research Paper we have among other things:

- the year
- the title
- the authors
- the venue

### Selected Datasets