

Nobel Ontology

Group A3D

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Overview

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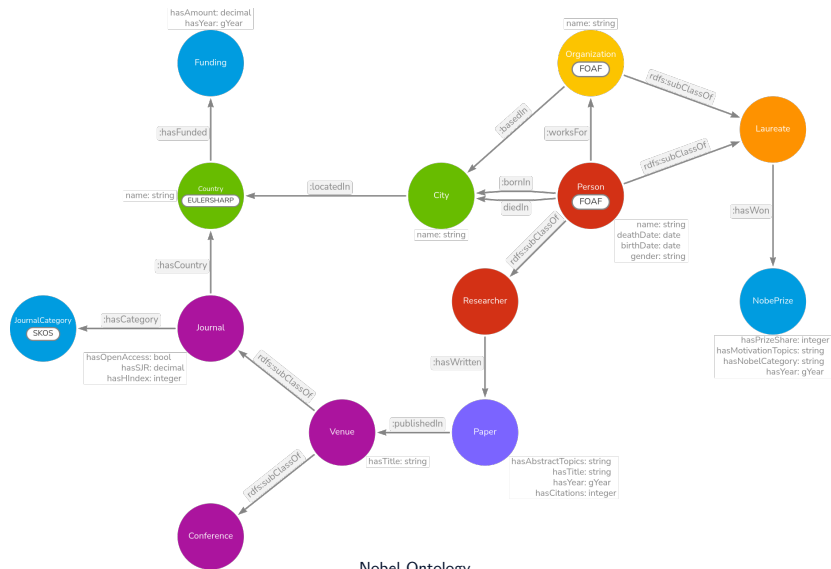
4. Analytics

Domain of Interest



We have chosen the domain of scientific research. Specifically, we aim to analyze potential correlations among Nobel Prize winners, their publications, and the research funding invested by various countries. This domain was selected because it allows us to reveal potential historical and geographical patterns in scientific research.

Nobel Ontology



Problems

- Errors in Nobel laureates dataset
- Subset of papers dataset
- Researchers and Nobel laureates matching

Errors in Nobel-Laureate dataset

Table: Example of dataset error

Year	Category	Prize Share	Full Name
1908	Medicine	1/2	Ilya Ilyich Mechnikov
1908	Medicine	1/2	Paul Ehrlich
1908	Medicine	1/2	Paul Ehrlich

Blocks of Highlighted Text

In this slide, some important text will be **highlighted** because it's important. Please, don't abuse it.

Block

Sample text

Alertblock

Sample text in red box

Examples

Sample text in green box. The title of the block is "Examples".

Multiple Columns

Heading

1. Statement
2. Explanation
3. Example

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Integer lectus nisl, ultricies in feugiat rutrum, porttitor sit amet augue. Aliquam ut tortor mauris. Sed volutpat ante purus, quis accumsan dolor.

Relationship between Nobel Prize winning ideas and published studies

Table: Number of papers per Nobel topic in 2004

Nobel topic	Nobel Prize	Number of papers
protein	Chemistry 2004	28
development	Peace 2004	13
flow	Literature 2004	8
interaction	Physics 2004	4
discovery	Chemistry 2004	3
discovery	Physics 2004	3
degradation	Chemistry 2004	3
asymptotic	Physics 2004	2
forces	Economics 2004	1
cycles	Economics 2004	1
olfactory	Medicine 2004	1
organization	Medicine 2004	1

The topic “protein” appeared in 28 papers. The high number of papers mentioning this Nobel topic suggests that it was widely discussed or relevant in 2004.

Most active research areas in a year

Table: Number of papers for each journal subcategory in 2004

Journal Subcategory	Number of papers
Biochemistry Genetics Molecular Biology	418
Social Sciences	344
Decision Sciences	125
Arts Humanities	74
Business Management Accounting	68
Physics Astronomy	65
Neuroscience	55
Health Professions	34
Psychology	27
Earth Planetary Sciences	22
Economics Econometrics Finance	14
Materials Science	12
Environmental Science	12
Agricultural Biological Sciences	10
Energy	2
Pharmacology Toxicology Pharmaceuticals	2

Molecular biology was the most active research area in 2004.

Query 3

Uncomment the code on this slide to include your own image from the same directory as the template .TeX file.

Questions?