Using Large Language Models for searching explainable relations in a cloud of Cultural Heritage knowledge graphs: SampoSampo as a neuro-symbolic system

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Abstract

Knowledge discovery of "interesting" or even serendipitous relations in data, often called relational search, provides a novel Artificial Intelligence-based approach in Digital Humanities for studying Cultural Heritage. Relational search methods are traditionally symbolic, based on searching connections in knowledge graphs. In contrast, this paper presents a novel neuro-symbolic approach to relational search based on combining Large Language Models (LLM) with knowledge graphs. It is argued that by using curated KG data and data models with Retrieval-augmented generation (RAG), hallucinations of LLMs can be mitigated and relational search extended also to web resources external to the underlying cloud of KGs. As a practical use case, first results of using the method for knowledge discovery as part of the new web service SampoSampo – Connecting Everything to Everything Else are presented.

Keywords

linked data, knowledge graphs, cultural heritage, relational search, relation extraction

1. Knowledge discovery of relations in a cloud of knowledge graphs

In Cultural Heritage (CH) data, such as person biographies, we are often not only interested in the people and other entities being described, but also how all these entities are interlinked between each other. That includes, for example, being able to answer questions such as *'How are Person A and Person B related to each other?'* or *'How is Person A related to Place X?'* regarding these entities present in the data. Unfortunately, these relations might only be included in the data implicitly in the form of free-form text, or based on contextual external data not present in the dataset at hand, or otherwise not modelled in a machine-readable way. This limits how well the relations can be searched and found.

Relation Extraction (RE) (Nasar, Jaffry, and Malik 2021) in Knowledge Discovery (KD) (Maimon and Rokach 2005) deals with the task of extracting and classifying relations from source data, such as texts and other documents, to a structured format, e.g., RDF. These extracted relations can then be used in Relational Search (RS) (Heim, Lohmann, and Stegemann 2010; Hyvönen and Rantala 2021) applications to provide the user with the tools to not only explore all the found relations, but also filter them on factors such as relation type, e.g., relations describing only student—teacher relationships between entities or a person's career being related to a specific place.

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This problem has been approached before by various methods based of searching connecting paths in knowledge graphs (KG). This paper shows a method for using Large Language Models (LLM) for the task in combination with data from knowledge graphs, leading to a new kind of hybrid neuro-symbolic system (Hitzler and Sarker 2022; Bhuyan and Tomar 2024). As a case study, the method is being implemented as part of the "SampoSampo – Connecting Everything to Everything Else" (Hyvönen, Ahola, Leskinen, Rantala, et al. 2025; Hyvönen, Ahola, Leskinen, and Tuominen 2025) data service and semantic portal.

SampoSampo is new member in the Sampo series on Linked Open Data (LOD) services and portals (Hyvönen 2022) in use in Finland. By combining information about the entities from different sources, the user will be able to get a more comprehensive picture about specific entities than they would from looking at it from a single source. In contrast to earlier Sampos, it is a "metasampo" based on a cloud of 11 other Sampos—such as BiographySampo, AcademySampo, LetterSampo Finland—and 8 related external data services on the Web, including Wikidata (Vrandečić and Krötzsch 2014), Geni.com, Getty ULAN, etc. The SampoSampo knowledge graph (KG) is a data linking service with resemblance especially to the viaf.org² service (Hickey and Toves 2014) provided by OCLC, but also to the works of ontology mapping, ontology services (Xia, Jiménez-Ruiz, and Cross 2015; Frosterus et al. 2015), Linked Open Vocabularies³, and the proxy data model of Europeana (Isaac 2023).

The goal of viaf.org is "to lower the cost and increase the utility of library authority files by matching and linking widely-used authority files and making that information available on the Web". In contrast, our work demonstrates how such a KG and LOD service can be used for the following practical purposes: 1) How to do semantic search and browsing on a global level over all KGs in the cloud. 2) How to detect how the data about the same entities is conflicting or complementary in different KGs of the cloud. 3) How to discover new relations between entities over the KG cloud with explanations, following the philosophy of explainable AI (Došilović, Brčić, and Hlupić 2018). 4) How to use the linking service in creating new data services and applications, in our case new Sampos. This paper presents first results of using SampoSampo in the use case 3) in line with the vision for knowledge discovery of "interesting" or even serendipitous relations on the Web of Wisdom (Hyvönen 2024). The SampoSampo portal⁴ and the underlying LOD service⁵ will be opened on the Web using the open MIT and CC BY 4.0 licenses in 2025 or early 2026.

2. Aggregating explained relations by complementary methods

An important aspect of the relational search methods in SampoSampo is to be able to integrate relations created by different methods, based on different datasets, and across different sources in a cloud of interlinked KGs. Some of the sources allow these relations to be extracted from existing links between entities, such as extracting relations between people and places of education from AcademySampo or between people who have frequently exchanged letters with each other from LetterSampo Finland.

However, there is untapped potential in the biographical texts present in BiographySampo. The relations present in the summaries at the end of the biographical texts have been extracted using a rule-based approach (Hyvönen et al. 2019) and turned into relations (Rantala, Hyvönen, and Tuominen 2023), but not form the free-form parts of the texts. With the advent of LLMs, automatically extracting relation data from these texts is now more feasible.

This paper describes the work on extracting relations using LLMs and the biographical texts from BiographySampo as additional context in the extraction process. The initial focus of our work is on generating relations between person and place entities, with other relations such as person–person relations planned to be added later.

¹SampoSampo project homepage: https://seco.cs.aalto.fi/projects/ss/

²Virtual International Authority Files: https://viaf.org

³Linked Open Vocabularies: https://lov.linkeddata.es/dataset/lov/

⁴SampoSampo portal: https://samposampo.ldf.fi/

⁵SAMPOSAMPO LOD service: https://ldf.fi/dataset/ss/

3. Relation extraction process

As the biographical texts from BiographySampo have already been run through a NER and NEL process (Tamper, Leskinen, and Hyvönen 2019) beforehand, the recognized mentions of places in the texts are used to determine person–place pairs that are more likely to produce documented relations as opposed to randomly trying to combine person and place entities.

The model chosen for the task is OpenAI's GPT-5 mini model⁶ with web searches enabled. The reasoning behind the enabling of the web searches was to attempt to get the model citing sources for its claims. LLMs can notoriously be unreliable and hallucinate facts when going unchecked, so asking it to include sources could at least in theory make it a bit easier for both us as well as the user to evaluate and verify the generated claims and sources used.

The model is tasked with generating relations in JSON format, specifying both the origin and target nodes for the relation, a relation type to categorize it, a short description of the relation, time period(s), sources for the claims made in the generated relation as well as a reasoning for including the relation in the first place. It is given a list of relation types that were used for the existing BiographySampo relations and tasked to prioritize using them whenever possible. However, if the model deems none of them appropriate, it is allowed to generate new ones. At the end of the prompt the model is also given the biographical text in Finnish from BiographySampo alongside its page link, serving as one authoritative source it can use for generating relations. The full template for the prompt is included in Appendix A.

If no documented and verifiable relations exist between two entities, the model is instructed to return an empty array. This could be possible in the cases of erroneous NER and NEL, where, for example, a mention of a person's surname or an adjective was instead linked to a place sharing the same name. For example, many of the biographical texts contain some inflection of the world *ruotsalainen* (engl. *Swedish*). In addition to functioning as an adjective describing things of or related to Sweden, it can also be a surname (*Ruotsalainen*) or refer to the island of *Ruotsalainen* located in Naantali, Southwest Finland. So, even though a place is recognized as mentioned in a text, it does not necessarily guarantee that a relation should always exist between the person and the mentioned place. To avoid at least some unnecessary API calls, some of the most common erroneously recognized and linked places⁷ were removed from the lists of possible person–place pairs.

4. Generated relation results

Table 1 includes an example response received from the model presented as a table. In the case of this relation, the model was asked to generate relations between Finnish cinematographer and actor Olavi Tuomi (1932–2006) and the municipality of Sodankylä in Lapland, which is a place mentioned in his biography. The model is able to generate a relation to describe Tuomi having received an award from a film festival that takes place in Sodankylä. In the original BiographySampo relations, the only relations related to Tuomi are his two relations to Helsinki, the capital of Finland, which is both his birth and death place.

The generated relations are transformed from the original response JSON format into RDF and added to SampoSampo data as well as made visible in the user interface (UI). The new relations primarily use the same properties as used for the original, existing BiographySampo relations already present in SampoSampo data with the addition of new properties for the web URL sources provided in the relation responses provided by the model. To ensure the provenance of the relations and their potential unreliability due to hallucinations is clear to the user, the primary source of the generated relations is "Generated using AI"—also providing a way for the user the exclude these relations by only choosing non-AI sources in the UI if they wish (see Figure 4).

⁶OpenAI's GPT-5 mini model: https://platform.openai.com/docs/models/gpt-5-mini

⁷These were mostly common Finnish first and last names that are also names of some more obscure Finnish places that are unlikely to be actually referenced in biographies.

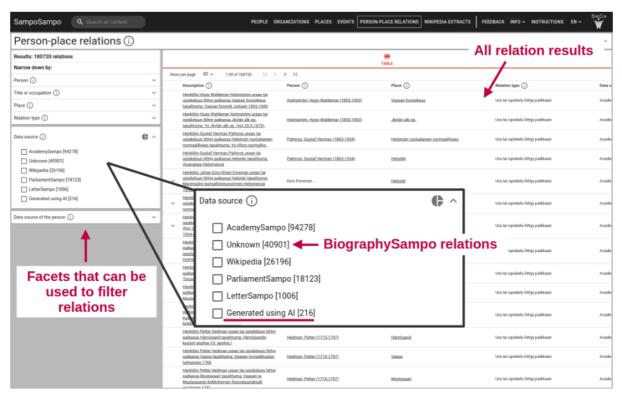


Figure 1: A screenshot showing the person-place relations faceted search view in SampoSampo portal with its data source facet open

5. Evaluation

A random sample of 20 generated relations was selected to perform some evaluation of the initial results consisting of 216 generated relations total. These 20 generated relations included a total of 47 sources provided by the model—including both a link to a web source and a statement regarding what the model claimed the source contained that was relevant to the relation. To give some insight into what kind of relations ended up being included in the evaluation, 16 out of 20 generated relations used existing Biography Sampo relation types (see Table 2). Half of them were relations describing people's places of birth and death, which have also been extracted with rule-based methods from the summaries at the end of biography texts. The new generated relation types are sensible in regards to their respective relations, but the relation with the type 'Educated at place' should have been under the type 'Career or studies related to place' instead.

As Table 3 shows, all the links provided were both valid web URLs and accessible at the time of writing. Table 4 shows the results for 1) the correctness of the relations and 2) the correctness of the statements accompanying the source web links.

In this case, the correctness of the relations is evaluated purely on the basis of whether the nodes of the relation match the ones stated in the relation description and whether the relation description is a true statement. This evaluation does not attempt to evaluate, e.g., the semantic meaningfulness of the relations. For example, the relation that Mr. Olavi Tuomi was born in Finland would here be counted as a correct statement, but not exactly an interesting relation in terms of relational search as we also have the more specific relation that he was born specifically in Helsinki, Finland. Another challenge not accounted here is evaluating whether in some cases it is semantically correct for a relation to point to a place rather than an organization: For example, in the relation presented in Table 1, does the relation truly meaningfully link Mr. Olavi Tuomi to the place of Sodankylä or should this relation only be reserved for a relation between Mr. Olavi Tuomi and the organization of *Sodankylän elokuvajuhlat*?

The correctness of the statements was evaluated on the basis of whether the web source includes mentions of everything the statement claims it does. This means that a correct statement is fully backed

Table 1
An example relation generated by the model presented in table format

Attribute	Value		
origin_node	Tuomi, Olavi (1932-2006)		
target_node	Sodankylä		
relation_type	award_received_from_place		
relation_description	Olavi Tuomi was awarded the Sodankylä-palkinto (Sodankylä Award) by the Sodankylän elokuvajuhlat (Sodankylä Film Festival).		
time_period	• 1989		
sources	 https://msfilmfestival.fi/historia/ The Midnight Sun Film Festival (Sodankylän elokuvajuhlat) history page lists recipients of the Sodankylä-palkinto and shows '1989: Olavi Tuomi, kuvaaja (cinematographer)'. https://msff.fi/index.php/fi-Fl/historia Festival history page (Finnish) records the Sodankylä-palkitut and names Olavi Tuomi as the 1989 recipient. https://yle.fi/a/3-8067750 Yle's article summarising Sodankylä-palkinto recipients includes the entry '1989 Olavi Tuomi, kuvaaja'. https://biografiasampo.fi/henkilo/p5788 Olavi Tuomi's BiographySampo page states that 'Olavi Tuomi sai merkittävästä työstään suomalaisen elokuvakulttuurin hyväksi Sodankylän elokuvajuhlien palkinnon 1989' (he received the Sodankylä Film Festival award in 1989). 		
reasoning	All cited sources (the official festival history page, a festival site mirror, a major Finnish broadcaster Yle, and Tuomi's BiographySampo entry) explicitly state that Olavi Tuomi was granted the Sodankylä-palkinto in 1989; this documents a verifiable directed relation from the person to the place as recipient of an award given by the Sodankylä film festival.		

Table 2The relation types of evaluated relations

Relation type	Count
Existing relation types	16
 Place of death 	6
- Place of birth	4
- Career or studies related to place	6
New relation types	4
- Received honor in place	1
 Educated at place 	1
- Resided in place	1
- Membership in institution in place	1

by the source, but a statement with multiple claims and only some of them backed by the source—even if other sources confirm the additional claims—is evaluated as only partially correct.

6. Using SampoSampo portal and data service

The SampoSampo portal offers multiple *application perspectives* to view the data, including a perspective for person–place relations as already seen in Figure 4. Selecting a perspective opens up its *faceted search view* with a facet menu and a result view (usually a table by default) as well as possible other

Table 3
The number of source links generated and their validity

Total number of links		Valid links	Invalid/inaccessible links	
	47	47	0	

 Table 4

 The correctness of generated relations and source statements

Type	Total count	Correct	Partially correct	Incorrect
Relations	20	20	0	0
Statements	47	44	3	0

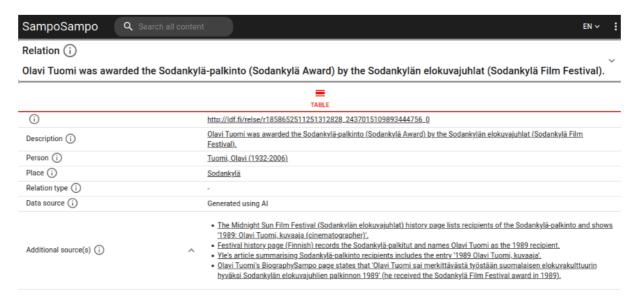


Figure 2: A screenshot showing the instance page of a relation in the SAMPOSAMPO portal

visualizations included as different tabs for the result view.

In the person-place perspective, the user can view all the relations present in the data or filter a subset of data they want to look at by using the available facets. The user can limit the relations to those related to, e.g., a certain person or place, or the relations to be of a certain relation type(s) or from a specific data source or sources. For example, if the user is interested in how Petrus Bång's (1633–1696) career or studies are related to Uppsala Municipality based on AcademySampo data, they would select Bång, Petrus (1633-1696) from the Person facet, Uppsalan kunta (Engl. Uppsala Municipality) from the Place facet, Ura tai opiskelu liittyy paikkaan (Engl. Career or studies related to place) from the relation type facet and AcademySampo from the Data source facet. After making these selections, the results on the faceted search view page would automatically update to match these constraints.

Clicking on the label of an individual relation leads to that relation's own *instance page*, where the user can see its information in detail, including the sources for the AI-generated relations. Figure 6 shows how the instance page looks for the same AI-generated relation that was used as an example in Table 1. The listed additional sources also serve as links, leading to the web URL provided by the LLM as source for the particular claim serving as the label for the link.

7. Conclusions and Future Work

Based on the initial results, the process of extracting relations in the described way seems to produce sensible results. However, even if the model is granted access to resources outside of its training data such as web materials for verifying its facts, some hallucinations seem to still slip in. This highlights the importance of providing users enough information regarding the provenance of the data so that they can accurately assess its reliability and what potential biases it might be affected by.

It should also be noted that a significant portion of the evaluated relations happened to be related to places of birth and death, which are likely usually expressed in fairly standard ways, making them simpler to both extract and express correctly. More complex relations requiring longer descriptions likely have a higher chance of including hallucinated portions in the descriptions.

There are also other challenges other than just generating factually correct relations. Like briefly touched on in the evaluation section of this paper, not all relations are created equal in terms of their semantic meaningfulness. Eliminating "uninteresting" relations—especially duplicate relations entities describing the same connection between two entities just in different words—would make it easier for the user to come across potentially interesting relations in a serendipitous way.

In some cases deduplication is easier to automatically recognize (e.g., a person is only born once and only dies once) provided that the different relation types are used consistently between different data sources—which in itself is another challenge. With the original relation types used for BiographySampo relations being limited to the ones that were relevant for what could be extracted back then, at least some level of the harmonization and grouping of new generated relation types is going to have to be carried out in the future to ensure a more consistent experience to the user.

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A. Appendix: Prompt template

Context: You are a digital assistant with expert knowledge on person biographies and places. Your task is to find documented and verifiable relations between people and places. You are not allowed to make guesses or hallucinate information and all the sources you provide must be accessible and trustworthy.

Your output should be an array in JSON format and you should not include any other text outside of the JSON. Include all the reliable relations you can find; don't leave out relations if there are multiple different relations between the two entities. If there are no documented relations, you should return an empty array and no additional text. All relations should be directed.

The fields used should be the following:

- 1. "origin node": [the origin of the directed relation]
- 2. "target_node": [the target of the directed relation]
- 3. "relation_type": [type of the relation]
- 4. "relation_description": [a brief textual description of the relationship, preferably one sentence in length, must include mentions of both the name of the person and the place in it]
- 5. "time_period": [an array of time period when the relation was applicable, in YYYY, YYYY-MM or YYYY-MM-DD format depending on known exactitude]
- 6. "sources": [an array of verifiable sources for the relation as web links (use attribute "url") as well as a description of the statements sourced from them in English (use attribute "statement")]
- 7. "reasoning": [the reasoning for including this relation in your answer]

For the field "relation_type", use the following types whenever possible:

- 1. "career_or_studies_related_to_place": The relation describes an activity related to the person's career or studies in the place.
- 2. "died_in_place": The relation describes the person's death in the place.
- 3. "born_in_place": The relation describes the person's birth in the place.
- 4. "honour_related_to_place": The relation describes the person having received an honorary award or title related to the place.
- 5. "painting_depicts_place": The relation describes the person's painting depicting the place.
- 6. "writing_depicts_place": The relation describes the person's writing depicting the place.
- 7. "letter_sent_from_place": The relation describes the person having sent a letter from the place.
- 8. "historical_event_in_place": The relation describes the person taking part in a historical event in the place.
- 9. "novel_depicts_place": The relation describes the person's novel depicting the place.
- 10. "letter_received_from_place": The relation describes the person having received a letter from the place.

If none of these are applicable, formulate a new relation type.

Question: How are $\{LAST\ NAME,\ FIRST\ NAME\ (YEAR\ OF\ BIRTH\ -\ YEAR\ OF\ DEATH)\}$ and the place of $\{NAME\ OF\ PLACE\}$ related to each other?

Here's additional information about $\{LAST\ NAME,\ FIRST\ NAME\ (YEAR\ OF\ BIRTH\ -\ YEAR\ OF\ DEATH)\}$'s life from their BiographySampo page (web link: $\{URL\ OF\ PERSON'S\ BIOGRAPHYSAMPO\ PAGE\}$):

{PERSON'S BIOGRAPHICAL TEXT FROM THEIR PAGE}