

# Hands-on (Details)

## Obtain Data Using SPARQL

### Demo. Using ULAN

#### **ULAN** *Union List of Artist Names (ULAN)*

1. We will be at the same query templates page.  
<http://vocab.getty.edu/queries>
2. You need to refresh the query website
3. Find section [5. ULAN-specific queries](#)
4. Meanwhile, you may go to ULAN to find the ID of someone you want to search for.





# The Getty Research Institute

<http://www.getty.edu/research/tools/vocabularies/ulan>

- Exhibitions & Events
- Special Collections
- Library
- Search Tools & Databases
- Scholars & Projects
- Public Programs

You may go to normal ULAN website to find the ID of someone you want to search for. My choice is Frank Lloyd Wright. **Get the ID.**

## Search Tools & Databases

- Primo Search
- Getty Research Portal
- Collection Inventories & Finding Aids
- Photo Archive
- Research Guides & Bibliographies
- Digital Collections
- Article & Research Databases
- Collecting & Provenance Research
- BHA & RILA
- Getty Vocabularies

## Union List of Artist Names® Online

Search the ULAN [? Help](#)

Find Name or ID **1**

Role:

Nationality:

[Lookup](#)

[Pop-up Search](#) [Browse the ULAN hierarchies](#)

Click the icon to view the hierarchy. Check boxes to view multiple records at once.

- Frank Lloyd Wright Building Conservancy**  
(American organization, established 1990) [500231702] (Corporate Bodies)
- Frank Lloyd Wright Foundation**  
(American foundation, founded 1940) [500243110] (Corporate Bodies)  
**Frank Lloyd Wright Memorial Foundation**
- Frank Lloyd Wright Home and Studio Foundation**  
(American repository, Oak Park, active 1974-2000) [500303810]
- Frank Lloyd Wright Preservation Trust**  
(American society, contemporary) [500271821] (Corporate Bodies)
- Frank Lloyd Wright School of Architecture**  
(American architecture school, contemporary) [500249649] (Corporate Bodies)
- National Foundation for the Study of Frank Lloyd Wright**  
(American repository, Detroit, contemporary) [500306742] (Corporate Bodies)
- Wright, Frank Lloyd**  
(American architect, 1867-1959) [500020307] (Persons, Artists)  
**Frank Lloyd Wright**
- Wright, Lloyd**  
(American architect and scenographer, 1890-1978) [500009812]  
**Wright, Frank Lloyd** Marcia Zeng, 2018 DIS

**2**



Research Home ▶ Tools ▶ Union List of Artist Names ▶ Full Record Display



## Union List of Artist Names® Online Full Record Display

[New Search](#)

[Previous Page](#)

Click the icon to view the hierarchy.

[Semantic View \(JSON, JSONLD, RDF, N3/Turtle, N-Triples\)](#)

**ID: 500020307** **3**

**Wright, Frank Lloyd** (American architect, 1867-1959)

**Note:** Architect, draftsman, furniture and interior designer and recognized as one of the most important figures in 20th century architects whose success and reputation are measured in part by everyday landscape, Wright remained an individualist who made his mark of 20th century architecture. Instead, his fame is derived from his work within an environment and within space itself. He is best known for his office buildings, and innovative furniture and chinaware design.

### Names:

- Wright, Frank Lloyd** (**preferred**, V, index, LC)
- Frank Lloyd Wright** (V, display)
- Frank Lloyd Lincoln Wright** (V)
- Rait, Frank Lloid** (V)
- Rayt, Frank Luyd** (V)

### Nationalities:

- American (**preferred**)
- undetermined

Steps: After you get the ID of the artist (e.g., ulan:500020307 for Frank Lloyd Wright)

(1) Go to Getty Vocab SPARQL Endpoint: <http://vocab.getty.edu/sparql>

(2) Choose 'Queries':

The image shows two browser windows. The top window is at [vocab.getty.edu/sparql](http://vocab.getty.edu/sparql) with the 'Queries' tab selected. The bottom window is at [vocab.getty.edu/queries#Finding\\_Subjects](http://vocab.getty.edu/queries#Finding_Subjects) showing the 'Finding Subjects' query selected in a list. A blue arrow points from the text 'This should be the interface you see.' to the bottom window.

**Getty Vocabularies: LOD Sample Queries**

Version: 3.4  
Last updated: 13 June 2017  
HTML version: <http://vocab.getty.edu/doc/queries>  
Queries UI: <http://vocab.getty.edu/queries>  
Parent document: <http://vocab.getty.edu/doc>  
Author: Vladimir Alexiev

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- 2 **Finding Subjects**
  - 2.1 Top-level Subjects
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  - 2.3 Subjects by Contributor Id
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Query: 1

Include inferred  
 Expand results over equivalent URIs

- Added query [Exact-Match Full Text Search Query](#)

**1.2.3 Version 3.2**  
15 Dec 2015

- Added more detailed instructions to [OpenRefine Reconciliation Service](#)
- Added query [Combination Full-Text and Exact String Match](#), which is particularly useful for rec
- Added query [GraphDB SysInfo](#)



## 5 ULAN-Specific Queries

- [5.1 Agents by Type](#)
- [5.2 Associative Relations of Agent](#)
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- [5.16 Popes and Their Reigns](#) ←
- [5.17 Pope Reign Durations](#)
- [5.18 Life Events](#)

[http://vocab.getty.edu/queries#Top-level\\_Subjects](http://vocab.getty.edu/queries#Top-level_Subjects)

## Find

### “5. ULAN-Specific Queries”

## Browse the examples of queries

As you can tell, you can obtain special datasets for very complicated questions, and reveal unknown relationships.

### Try task:

Find associative relationships of **ulan:500020307 Wright, Frank Lloyd**; showing relationship type, associated subject, preferred name, preferred display biography, and display date (comment).

Which query will help our task? [move on to the next slide].

# Steps:

- (1) Click section 5.2 on the left. Then a template on the lower right will show up.
  - (2) Click on that SPARQL sign on top corner of 5.2's template.
- Once you click, the queries will jump to the top query box.



## Getty Vocabularies: LOD

SPARQL

Queries

Any

Search...

Search

Brief

[4.17 Places Within Bounding Box](#)

[4.18 Places by Type Within Bounding Box](#)

[4.19 Places Outside Bounding Box \(Overseas Possessions\)](#)

[4.20 Places Nearby Each Other](#)

### 5 ULAN-Specific Queries

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### 6 Language Queries

[6.1 Scientific Names by Language](#)

[6.2 Scientific Names in English and Latin](#)

```
1 select * {
2   ulan:500115493 ?rel ?x.
3   ?rel sesame:directSubPropertyOf skos:related.
4   ?x gvp:prefLabelGVP/xl:literalForm ?name.
5   ?x foaf:focus/gvp:biographyPreferred/schema:description ?bio.
6   optional {
7     rdf:subject ulan:500115493;
8     rdf:predicate ?rel;
9     rdf:object ?x;
10    rdfs:comment ?comment}}}
```

Include inferred

Expand results over equivalent URIs

Submit

### 5.2 Associative Relations of Agent

Let's get all associative relationships of ulan:500115493 Durer, Albrecht, showing relationship type, associated subject, preferred name, preferred display biography, and display date (comment)

```
select * {
  ulan:500115493 ?rel ?x.
  ?rel sesame:directSubPropertyOf skos:related.
  ?x gvp:prefLabelGVP/xl:literalForm ?name.
  ?x foaf:focus/gvp:biographyPreferred/schema:description ?bio.
  optional {
    rdf:subject ulan:500115493;
    rdf:predicate ?rel;
    rdf:object ?x;
    rdfs:comment ?comment}}
```

SPARQL

2

**Steps:** (3) replace the ID of the person you want to find. Note there are two IDs to replace.

(4) Submit.



## Getty Vocabularies: LOD

SPARQL

Queries

Any ▾

Search...

Search

Brief ▾

[4.17 Places Within Bounding Box](#)

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### 6 Language Queries

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```
1 select * {
2   ulan:500115493 ?rel ?x.
3   ?rel sesame:directSubPropertyOf skos:related.
4   ?x gvp:prefLabelGVP/xl:literalForm ?name.
5   ?x foaf:focus/gvp:biographyPreferred/schema:description ?bio.
6 optional {
7   rdf:subject ulan:500115493;
8   rdf:predicate ?rel;
9   rdf:object ?x;
10  rdfs:comment ?comment}}}
```

**<-- Replace ID with 500020307**

**<-- Replace ID with 500020307**

Include inferred

Expand results over equivalent URIs

4

Submit

## 5.2 Associative Relations of Agent

Let's get all associative relationships of ulan:500115493 Durer, Albrecht, showing relationship type, associated subject, preferred name, preferred display biography, and display date (comment)

```
select * {
  ulan:500115493 ?rel ?x.
  ?rel sesame:directSubPropertyOf skos:related.
  ?x gvp:prefLabelGVP/xl:literalForm ?name.
  ?x foaf:focus/gvp:biographyPreferred/schema:description ?bio.
  optional {
    rdf:subject ulan:500115493;
    rdf:predicate ?rel;
    rdf:object ?x;
    rdfs:comment ?comment}}
```

SPARQL

associative relationships of ulan:  
500020307 Wright, Frank Lloyd

5

(5) Download the datasets in a selected format, e.g., **CSV** file.

(6) You should either keep the query in your CSV file or make a note of what you searched for (**term label and ID**).

**FINISHED.**

Results: (37)

Download SPARQL Results in: [JSON](#) | [XML](#) | [CSV](#)

rel	x	name	bio	comment
<a href="#">gvp:ulan1000_related_to</a>	<a href="#">ulan:500077136</a>	Sullivan, Francis Conroy	Canadian architect and draftsman, 1882-1929	-
<a href="#">gvp:ulan1101_teacher_of</a>	<a href="#">ulan:500125903</a>	Lustig, Alvin	<a href="#">gvp:ulan1218_employee_was</a> <a href="#">ulan:500045289</a> Howe, John H.	American draftsman
<a href="#">gvp:ulan1106_apprentice_was</a>	<a href="#">ulan:500035255</a>	Ayala Valva, Franco d'	<a href="#">gvp:ulan1218_employee_was</a> <a href="#">ulan:500017837</a> Neutra, Richard	American architect
<a href="#">gvp:ulan1106_apprentice_was</a>	<a href="#">ulan:500255776</a>	Beharka, Robert	<a href="#">gvp:ulan1218_employee_was</a> <a href="#">ulan:500033760</a> Robinson, Harry Franklin	American architect
<a href="#">gvp:ulan1106_apprentice_was</a>	<a href="#">ulan:500249945</a>	Besinger, Curtis Wray	<a href="#">gvp:ulan1218_employee_was</a> <a href="#">ulan:500028102</a> Smith, Tony	American sculptor,
<a href="#">gvp:ulan1106_apprentice_was</a>	<a href="#">ulan:500236881</a>	Drake, Blaine	<a href="#">gvp:ulan1218_employee_was</a> <a href="#">ulan:500014829</a> Soleri, Paolo	American architect
<a href="#">gvp:ulan1106_apprentice_was</a>	<a href="#">ulan:500236882</a>	Drake, Hulda	<a href="#">gvp:ulan1302_associate_of</a> <a href="#">ulan:500114125</a> Giannini and Hilgart	American glass sta
			<a href="#">gvp:ulan1303_collaborated_with</a> <a href="#">ulan:500045662</a> Niedecken-Walbridge Co.	American interior d
			<a href="#">gvp:ulan1303_collaborated_with</a> <a href="#">ulan:500040695</a> Giannini, Orlando	American sculptor, designer, and glass designer, 1861-1928
			<a href="#">gvp:ulan1303_collaborated_with</a> <a href="#">ulan:500041215</a> Niedecken, George M.	American interior decorator, 1878-1945
			<a href="#">gvp:ulan1305_worked_with</a> <a href="#">ulan:500228504</a> Green, Aaron G.	American architect, 1917-2001
			<a href="#">gvp:ulan1308_assisted_by</a> <a href="#">ulan:500238484</a> Endo, Arata	Japanese architect, 1889-1951
			<a href="#">gvp:ulan1501_sibling_of</a> <a href="#">ulan:500116874</a> Barney, Maginel Wright	American illustrator, 1881-1966
			<a href="#">gvp:ulan1511_child_of</a> <a href="#">ulan:500033241</a> Wright, Anna Lloyd Jones	American teacher, died 1923
			<a href="#">gvp:ulan1512_parent_of</a> <a href="#">ulan:500005777</a> Wright, John Lloyd	American architect and designer, 1892-1972
			<a href="#">gvp:ulan1512_parent_of</a> <a href="#">ulan:500009812</a> Wright, Lloyd	American architect and scenographer, 1890-1978
			<a href="#">gvp:ulan1514_gandparent_of</a> <a href="#">ulan:500033093</a> Wright, Eric Lloyd	American architect, born 1929
			<a href="#">gvp:ulan1541_spouse_of</a> <a href="#">ulan:500218907</a> Wright, Catherine Tobin	American socialite, 1871-1959
			<a href="#">gvp:ulan1541_spouse_of</a> <a href="#">ulan:500280870</a> Wright, Olgivanna Lloyd	American socialite, 1900-1985
			<a href="#">gvp:ulan2572_founder_of</a> <a href="#">ulan:500033286</a> Oak Park Studio	American architectural firm, established ca. 1896, dissolved 1909
			<a href="#">gvp:ulan2574_director_of</a> <a href="#">ulan:500033286</a> Oak Park Studio	American architectural firm, established ca. 1896, dissolved 1909
			<a href="#">gvp:ulan2781_dedicattee_of</a> <a href="#">ulan:500243110</a> Frank Lloyd Wright Foundation	American foundation, founded 1940
			<a href="#">gvp:ulan2781_dedicattee_of</a> <a href="#">ulan:500300156</a> Taliesin	American repository, Spring Green, contemporary
			<a href="#">gvp:ulan2781_dedicattee_of</a> <a href="#">ulan:500308851</a> Taliesin West	American repository, Scottsdale, contemporary

Optional:  
If you know how to use Google Fusion Table or Gephi, you may clean up the spreadsheet, then visualize the relations.

