Facilitating Open Knowledge:
The Intersection of Wikidata and Libraries

AALL TS/OBS Joint Summit  •  July 27, 2020
About the Speakers

**Mairelys Lemus-Rojas:** Mairelys is the lead author of chapter “Wikidata and Libraries: Facilitating Open Knowledge” of the book “Leveraging Wikipedia: Connecting Communities of Knowledge” published in 2018. She works as the Open Knowledge Librarian at IUPUI and is an active author and speaker. Mairelys has shared her insightful thoughts about exposing curated library data and increasing the representation of scholars in Wikidata through the development and implementation of the *Scholarly Profiles as Service* model.

**Thomas Ma:** Tom is the Cataloging Manager for the Professional Schools at Harvard University, which includes the Law Library. Tom has over 16 years of experience as a Law Librarian at Harvard. In addition to cataloging, Tom works with ISNIs, Wikidata, identity management and linked data. He is also the project manager for the Nuremberg Trials Wikidata Project at Harvard.
Outline

- What is Wikidata?
- Wikidata Basics
- Why Contribute to Wikidata?
- Libraries/Archives and Wikidata
  - VIAF | SNAC | Library Catalogs | Inventaire | Bib & Authority Records | LD4
- Library Use Cases
  - IUPUI University Library: Scholarly Profiles as Service
    - Tools to contribute data: QuickStatements & Source MetaData | Tool to visualize data: Scholia
  - Harvard: Maps | Harvard Film Archives | Nuremberg Project
    - Tool to visualize data: Reasonator | Tool to query data: Wikidata Query Service
- Projects
  - WikiCite | WikiProject Law | WikiProject Libraries | WikiProject Open Access
What is Wikidata?

- Multilingual knowledge base
- Launched in 2012
- Project led by Wikimedia Deutschland
- Stores structured linked data under a CC0 license
- Read by both humans and machines
- Collaboratively edited
- Contains over 87 million items and 7 thousand properties
  - Including a growing collection of open citation data

Link: [http://wikicite.org/statistics.html](http://wikicite.org/statistics.html)
Wikidata Basics

- Entities in Wikidata can be either **Items** or **Properties**
- **Items** represent topics, concepts, objects, and may contain:
  - Statements (in the form of property-value pairs)
  - Qualifiers (to provide context and scope)
  - References (to provide sources)
- **Properties** are used to describe data values
- All **Items** (Q#) and **Properties** (P#) have unique identifiers
- Data stored in triples
  - **Subject** > **Predicate** > **Object**
  - American Association of Law Libraries > headquarters location > Chicago
  - Q4743067 > P159 > Q1297
Wikidata

Data Model

Link: w.wiki/32q
Why Contribute to Wikidata?

- Because it’s an open and freely accessible platform for anyone to edit
- Because it aligns with the libraries’ mission to serve their communities
- By contributing to the knowledge base, libraries could:
  - Improve the coverage of underrepresented communities
  - Increase the visibility of faculty and their scholarship
  - Facilitate the improvement of catalog records
  - Increase the visibility of and traffic to archival collections
  - Help establish connections among collections
  - Impact the search results in knowledge graphs
Libraries/Archives and Wikidata
Wikidata in VIAF (Virtual International Authority File)

Link: [http://viaf.org/viaf/133533641](http://viaf.org/viaf/133533641)
Wikidata in SNAC (Social Networks & Archival Context)

Link: https://snaccooperative.org/
Wikidata in Library Catalogs


Neil Elwood Pearl O.C. (September 12, 1932 – January 7, 2020) was a Canadian musician, songwriter, and author, best known as the drummer and primary lyricist of the rock band Rush. Pearl earned numerous awards for his musical performances, including an induction into the Modern Drummer Readers Poll Hall of Fame in 1983, making him the youngest person ever so honoured. His drumming was renowned for its technical proficiency and his live performances for their exacting nature and stamina.

Available copies

- 1 of 1 copy available at Confer. (Show)
- 1 of 1 copy available at Laurentian University.

Link: [https://laurentian.concat.ca/eg/opac/record/738234](https://laurentian.concat.ca/eg/opac/record/738234)

Does female schooling reduce fertility? : evidence from Nigeria

Osili, Una Okonkwo

WORKED IN

- Indianapolis

ABSTRACT

- professor of economics and philanthropic studies

EDUCATION

- Northwestern University
- Harvard University

IDENTITIES ON THE WEB

- [http://id.loc.gov/authorities/names/n2004144107](http://id.loc.gov/authorities/names/n2004144107)
- [http://viaf.org/viaf/43025147](http://viaf.org/viaf/43025147)
- [http://www.wikidata.org/entity/Q32979516](http://www.wikidata.org/entity/Q32979516)

Link: [https://search.library.wisc.edu/catalog/9910034010302121](https://search.library.wisc.edu/catalog/9910034010302121)
Inventaire

Link: https://inventaire.io/welcome
Wikidata in Bibliographic and Authority Records

Link: https://www.loc.gov/aba/pcc/bibframe/TaskGroups/URI-TaskGroup.html
LD4 Projects

SINOPIA

Latest news
Sinopia Version 2.0.28 highlights
For complete release notes see the Sinopia help site

- Component for easier entering of diacritics for literal fields.
- “Create New” dropdown menu on Sinopia loop fields shows all matching items.
- Images are included in extended context in Search results.
- URI of resource is displayed in Search results for Sinopia and for external sources

Login to the Linked Data Editor
User name
Password
Login
Forgot Password
Request Account

The underdrawing for the new world of linked data in libraries

Link: https://sinopia.io/#
Library Use Cases
Scholarly Profiles as Service

- Pilot project conducted in 2017 to explore the potential of Wikidata and Scholia
- Project informed the development of the Scholarly Profiles as Service [1] model, which aims at:
  - providing a presence in Wikidata for IUPUI-affiliated faculty
  - adding the scholarship produced by the faculty
  - making connections between faculty and their works

[1] Link: https://w.wiki/WRv
Why Wikidata for Faculty Profiles?

- Aligns with our library commitment to open knowledge [1]
- Ability to contribute to a freely accessible open linked data platform
- Ability to connect works
- Opportunity to increase faculty representation
- Enables external tools to make use of the data and display it in more meaningful ways

[1] Link: http://www.ulib.iupui.edu/digitalscholarship/openknowledge
Scholarly Profiles: Data Gathering

Scopus

RESEARCHERID

VIAF
Virtual International Authority File

ORCID

LinkedIn

Google Scholar

isni

Faculty Website
Wikidata Tools

- QuickStatements
- Source MetaData
- Scholia
Tool to Contribute Data: QuickStatements

- Executes automatic edits in Wikidata

Link: https://quickstatements.toolforge.org/#/
QuickStatements Example

1. Cynthia M. Adams (Q97702985)  
   - **Name:** Cynthia M. Adams  
   - **Title:** Vice dean and clinical professor of law  
   - **Instance of:** [P31]: human  
   - **Sex or gender:** [P141]: female  
   - **Languages spoken, written or signed:** [P1412]: English  
   - **Affiliation:** [P1418]: Indiana University Robert H. McKinney School of Law [Q214688472]  
   - **Employer:** Indiana University – Purdue University Indianapolis  
   - **Work location:** Indianapolis [Q6346]  
   - **Occupation:** [P108]: university teacher  
   - **Official website:** [P856]: https://mckinneylaw.iupui.edu/faculty-staff/profile.html?id=43  
   - **Education:** [P69]: Kentucky Wesleyan College [Q1739079]  
     - **Academic Degree:** [P552]: Bachelor of Arts  
     - **Reference URL:** [P854]: https://mckinneylaw.iupui.edu/faculty-staff/profile.html?id=43  
   - **Employer:** Indiana University Robert H. McKinney School of Law [Q214688472]  
     - **Start time:** [P589]: 1979  
     - **End time:** [P582]: 1983  
     - **Academic Degree:** [P552]: Juris Doctor  
     - **Reference URL:** [P854]: https://mckinneylaw.iupui.edu/faculty-staff/profile.html?id=43  
     - **Reference URL:** [P813]: https://www.linkedin.com/in/cynthia-m-adams-34113514/  
   - **Retrieved:** [P813]: 2020-07-26

2. Miriam A. Murphy (Q97702987)  
   - **Name:** Miriam A. Murphy  
   - **Title:** Director of the Ruth Lilly Law Library  
   - **Instance of:** [P31]: human  
   - **Sex or gender:** [P141]: female  
   - **Languages spoken, written or signed:** [P1412]: English  
   - **Affiliation:** [P1418]: Indiana University Robert H. McKinney School of Law [Q214688472]  
   - **Employer:** Indiana University – Purdue University Indianapolis  
   - **Reference URL:** [P854]: https://www.linkedin.com/in/miriam-murphy-87999208/  
   - **Retrieved:** [P813]: 2020-07-26

   - **Employer:** Wake Forest University School of Law  
     - **Reference URL:** [P854]: https://mckinneylaw.iupui.edu/faculty-staff/profile.html?id=71  
     - **Retrieved:** [P813]: 2020-07-26
Tool to Contribute Data: Source MetaData

- Searches bibliographic metadata based on identifiers (PMCID, PMID, DOI, ISBN, ORCID)

Link: https://sourcemd.toolforge.org/
Tool to Visualize Data: Scholia

- Web service that generates scholarly profiles using Wikidata’s data

Scholia is a service that creates visual scholarly profiles for topic, people, organizations, species, chemicals, etc using bibliographic and other information in Wikidata.

Scholia relies on Wikidata, and Wikidata contains only a limited albeit growing subset of the corpus of scholarly literature, its authors and citations. Read more about the limitations in the FAQ.

Search

Search for a scientist, topic, publication, organization, award, event, etc.

Examples

Profiles

Denny Vrandečić
View the researcher profile for the Semantic Web researcher Denny Vrandečić. It shows his papers, co-authors, etc.

Combinations

Scholia can show multiple items together.

Technical University of Denmark and University College London

Redirects

If you know the external identifier of a concept, then Scholia can make a lookup based on it:

twitter/utafrith

Link: https://scholia.toolforge.org/
Indiana University Robert H. McKinney School of Law (Q14688472)

The Indiana University Robert H. McKinney School of Law (IU McKinney) is located on the campus of Indiana University – Purdue University Indianapolis (IUPUI) in Indianapolis, Indiana, the urban campus of Indiana University. In the summer of 2001, the school moved to its new building, Lawrence W. Inlow Hall. IU McKinney is one of two law schools operated by Indiana University, the other being the Indiana University Maurer School of Law (IU Maurer) in Bloomington. ... (from the English Wikipedia)

Journals and other collections

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<th>Number of works</th>
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<th>Journal</th>
<th>Theme</th>
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<td>169</td>
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<td>Indiana Law Review</td>
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<td>62</td>
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<td>Indiana Health Law Review</td>
<td>health law</td>
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<tr>
<td>53</td>
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<td>Indiana International &amp; Comparative Law Review</td>
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Edit on query.Wikidata.org
### Recently published works

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<tr>
<td>2018-03-20</td>
<td>David's Sling</td>
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<td>2018-03-20</td>
<td>Public Defense Innovation in Texas</td>
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<td>2018-03-20</td>
<td>Case Refusal</td>
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<td>2018-03-20</td>
<td>Isonomy, Austerity, and the Right to Choose Counsel</td>
</tr>
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<td>2018-03-20</td>
<td>The Future of Access to Justice</td>
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<tr>
<td>2018-03-20</td>
<td>In Celebration of Larry McKinney and Denise LaRue</td>
</tr>
<tr>
<td>2018-03-20</td>
<td>Will We Ever Succeed in Fulfilling Gideon's Promise?</td>
</tr>
<tr>
<td>2018-03-20</td>
<td>In Memory of Justice Roger O. DeBruler</td>
</tr>
<tr>
<td>2018-03-20</td>
<td>False Start</td>
</tr>
<tr>
<td>2018-03-20</td>
<td>Re-examining of Indiana's Voter ID Law in Light of Recent Federal Court Cases</td>
</tr>
</tbody>
</table>
Indiana University Robert H. McKinney School of Law (Q14688472)

The Indiana University Robert H. McKinney School of Law (IU McKinney) is located on the campus of Indiana University – Purdue University Indianapolis (IUPUI) in Indianapolis, Indiana, the urban campus of Indiana University. In the summer of 2001, the school moved to its new building, Lawrence W. Inlow Hall. IU McKinney is one of two law schools operated by Indiana University, the other being the Indiana University Maurer School of Law (IU Maurer) in Bloomington. ... (from the English Wikipedia)

Employees and affiliated
Past and present employees, affiliated, and members

<table>
<thead>
<tr>
<th>Works</th>
<th>Wikis</th>
<th>Researcher</th>
<th>Researcher description</th>
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<td>Heather A. Walter-McCabe</td>
<td>associate professor</td>
<td>0000-0002-0246-4170</td>
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<td>4</td>
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<td>Lea Shaver</td>
<td>professor of law</td>
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<td>Margaret Ryznar</td>
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<td>Yvonne M. Dutton</td>
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<td>Benjamin J. Keele</td>
<td>law librarian</td>
<td>0000-0002-6029-6785</td>
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<tr>
<td>2</td>
<td>0</td>
<td>Karen E. Bravo</td>
<td>professor of law</td>
<td></td>
</tr>
<tr>
<td>Date</td>
<td>Work</td>
<td>Type</td>
<td>Pages</td>
<td>Venue</td>
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<td>2016-07-01</td>
<td>The Affordable Care Act, Substance Use Disorders, and Low-Income Clients: Implications for Social Work.</td>
<td>scholarly article</td>
<td></td>
<td>Social Work</td>
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<tr>
<td>2015-05-01</td>
<td>Social work expertise: an overlooked opportunity for cutting-edge system design under the Patient Protection and Affordable Care Act.</td>
<td>scholarly article</td>
<td></td>
<td>Health and Social Work</td>
</tr>
<tr>
<td>2014-10-21</td>
<td>Seven rules to live by: accommodations in social work education and the field.</td>
<td>scholarly article, review article</td>
<td></td>
<td>Journal of Social Work in Disability and Rehabilitation</td>
</tr>
</tbody>
</table>
The Affordable Care Act, Substance Use Disorders, and Low-Income Clients: Implications for Social Work. (Q50184931)

DOI: 10.1093/sw/sww030

Citation graph
Harvard

Link: https://w.wiki/XiB
Some current (LD4) projects at Harvard

- Maps
- Harvard Film archives
Maps

Wikidata:WikiProject Linked Data for Production/Scanned Maps in Wikimedia Commons and Wikidata Project

Aim and Scope
Convert, create and publish bibliographic and related entity metadata for Harvard Map Collection digital map reproductions as linked data in Wikidata & Wikimedia Commons, and contribute open-access images to Wikimedia Commons. Define practices and workflows to serve as a scalable prototype for libraries to share larger collections and different types of digital content with Wikimedia.

Background
Harvard Library has selected a subset of its maps collection to serve as a scalable prototype for libraries to share larger collections and different types of digital content with Wikimedia. The chosen collection includes historic paper map digital images that support the development of a model workflow for integrating linked data descriptors that feature historically significant geospatial elements with Wikidata. Harvard will work with Wikimedia to expose digital image content on the web, with relevant metadata and connections to Wikidata entities, and explore enhancement of converted legacy descriptions in the sandbox editing environment as well as native Wikidata tools.

Contributors and Contact Information
- Librarian lera - Lena Denis, lera@undercore.com at harvard dot edu
- Mong11 - Marc McGee, mmcggee at harvard dot edu

Link: https://w.wiki/XmP
Harvard Film Archive

Wikidata:WikiProject Linked Data for Production/Harvard Film Archive Project

```
1 Under construction
2 Background
3 Contributors and Contact Information
   3.1 Tasks
      3.1.1 Film director description
      3.1.2 Film description
      3.1.3 References
   3.2 Resources
4 Queries
5 Lists
```

Under construction [edit]

Background [edit]

Describing filmmakers whose work is held by the Harvard Film Archive.

Contributors and Contact Information [edit]

- Fersebner - Christine Fersebner Esao, esao@fas.harvard.edu
- Srivastava - Susan Radovsky, radovsky@fas.harvard.edu
- Teylee - Te-Yi Lee, te-yi_lee@gas.harvard.edu
- HILoan - Leo Evangelista, evangeli@fas.harvard.edu
- Tina.RuaHL - Albertina Rua, arnux@fas.harvard.edu
- Wheelard - Ryan Wheeler, rweeller@fas.harvard.edu
- JBH23 - John Hostage, hostage@law.harvard.edu
- OliviaQuintana - Isabel Quintana, quintana@fas.harvard.edu
- Garcia Catherine - Catherine Garcia, garciac@fas.harvard.edu
- June of FPH - June Rutkowski, rutkowski@fas.harvard.edu
- Threadless100 - Mary Jane Cunio, cunio@fas.harvard.edu

Tasks [edit]

Film director description [edit]

Use Film director Cradle form for new items

Link: https://w.wiki/XmQ
Nuremberg project

1. Goal
2. Brief history
3. Early attempts
4. Adoption of Wikidata
Nuremberg Trials Project Website

Link: nuremberg.law.harvard.edu
Knowledge panel
Testimony of Marian Babrowski, taken at Dachau, Germany 13 May 1945, 1600 hour
Testimony of Isidor Ascher, 32, 115, 631, W.CIT 6823, HQ. ETOUSA (J.A. Section) APO 88
U.S. Army, appeared before the Investigator-Examiner as a reporter and was sworn by him in the following form: "You swear that you will faithfully perform the duties of reporter in this investigation now being conducted by me, so help you God."
S/Sgt. Alfred J. Lawrence, 33, 45, 672, W.CIT 6823, HQ. ETOUSA (J.A. Section) APO 88.
Why **Wikidata** for projects?

**Pros**
- Pre-existing infrastructure
  - Pre-vocabulary (properties, etc)
- Pre-existing community
  - Add to items created
  - Community tools
- Easy to learn
- Free and accessible to all
- Community tools

**Cons**
- Infrastructure has some flaws
- Free and accessible to all
- Getting new properties approved is a long process
- Notability
Marian Jacek Dabrowski (Q61914164) •••

Catholic priest
Marion Dabrowski

Recin: Most relevant properties which are absent

In more languages
Configure

<table>
<thead>
<tr>
<th>Language</th>
<th>Label</th>
<th>Description</th>
<th>Also known as</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>Marian Jacek Dabrowski</td>
<td>Catholic priest</td>
<td>Marion Dabrowski</td>
</tr>
<tr>
<td>Spanish</td>
<td>Marian Jacek Dabrowski</td>
<td>No description defined</td>
<td></td>
</tr>
<tr>
<td>German</td>
<td>No label defined</td>
<td>polnischer katholischer Priester</td>
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<tr>
<td>Traditional Chinese</td>
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</table>

All entered languages

Statements

instance of

- 0 references

+ add reference

+ add value

sex or gender

- 0 references

+ add reference

+ add value

country of citizenship

- 0 references

+ add reference

+ add value

OpenStreetMap open in overpass

This map intentionally left blank.
<table>
<thead>
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<th>Field</th>
<th>Value</th>
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<td>given name</td>
<td>Marian</td>
</tr>
<tr>
<td>family name</td>
<td>Dąbrowski</td>
</tr>
<tr>
<td>date of birth</td>
<td>15 January 1905 (Gregorian)</td>
</tr>
<tr>
<td>place of birth</td>
<td>Białystok</td>
</tr>
<tr>
<td>place of detention</td>
<td>Dachau concentration camp</td>
</tr>
<tr>
<td>start time</td>
<td>5 July 1942</td>
</tr>
<tr>
<td>end time</td>
<td>29 April 1945</td>
</tr>
<tr>
<td>occupation</td>
<td>Catholic priest</td>
</tr>
</tbody>
</table>

- **0 references**
- **1 reference**
- **2 references**
<table>
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<tr>
<th>Residence</th>
<th>Warsaw</th>
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<tbody>
<tr>
<td>Religious Order</td>
<td>Franciscan</td>
</tr>
<tr>
<td>Participant In</td>
<td>Doctors' Trial</td>
</tr>
<tr>
<td>Subject Has Role</td>
<td>Witness</td>
</tr>
</tbody>
</table>

### Identifiers

| VIAF ID | 316566239 |
Wikidata Tools

- Reasonator
- Wikidata Query Service
  - Built in visualization
Tool to Visualize Data: Reasonator

WikiData - in pretty!

WikiData is an amazing project, but currently looks rather dry. This will, no doubt, change over time, with Wikipedia displaying transcluded data, and Lua support on both Wikipedia and Wikidata itself.

As a stop-gap measure, and a small demo of Wikidata's capabilities, welcome to Reasonator! Not only will it display Wikidata entries, it will do so in a item-type-optimized fashion, and also show related, significant data through simple reasoning (hence the name).

Try it out right away with Johann Sebastian Bach!

By default, the page will be in English. You can also set your preferred languages in the URL, like so: Johann Sebastian Bach trying German and French first ("&lang=de,fr"); some headings remain in English, for now.

Reasonator is a self-contained JavaScript class (plus some HTML/CSS), using the Wikidata API and SPARQL queries so it can easily be ported to other locations. As always, code under GPL.

Example items

- Douglas Adams (a biographical item)
- Cambridge (a location)

Link: [https://reasonator.toolforge.org/](https://reasonator.toolforge.org/)
**Marian Jacek Dabrowski (Q61914164)**

Catholic priest

**Marian Jacek Dabrowski** is a Polish Catholic priest. He was born on January 15, 1905 in Białystok.

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>participant in</td>
<td>Doctors' Trial Nuremberg Military Trial (NMT) 1</td>
</tr>
<tr>
<td>subject has role</td>
<td>witness</td>
</tr>
<tr>
<td>place of birth</td>
<td>Białystok capital of Podlaskie Voivodeship, Poland</td>
</tr>
<tr>
<td>place of detention</td>
<td>Dachau concentration camp German-Nazi concentration camp</td>
</tr>
<tr>
<td>start time</td>
<td>1942-07-05</td>
</tr>
<tr>
<td>end time</td>
<td>1945-04-29</td>
</tr>
<tr>
<td>residence</td>
<td>Warsaw capital and largest city of Poland</td>
</tr>
<tr>
<td>date of birth</td>
<td>1905-01-15</td>
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<tr>
<td>religious order</td>
<td>Franciscan 1209-1517 group of religious orders within the Catholic Church</td>
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<td>family name</td>
<td>Dąbrowski family name</td>
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<tr>
<td>given name</td>
<td>Marian male given name</td>
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</table>
**Marian Jacek Dabrowski** (Q61914164)

**Marion Dabrowski**

**Catholic priest**

**Marian Jacek Dabrowski** is a Polish Catholic priest. He was born on January 15, 1905 in Białystok.

<table>
<thead>
<tr>
<th>Other properties</th>
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<tr>
<td><strong>participant in</strong></td>
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<td>Doctors' Trial</td>
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<tr>
<td>subject has role in Doctors' Trial</td>
</tr>
<tr>
<td><strong>place of birth</strong></td>
</tr>
<tr>
<td>Białystok capital</td>
</tr>
<tr>
<td><strong>place of detention</strong></td>
</tr>
<tr>
<td>Dachau concentration start time: 1945-04-29</td>
</tr>
<tr>
<td>end time: 1945-04-29</td>
</tr>
<tr>
<td><strong>residence</strong></td>
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<tr>
<td>Warsaw capital and largest city of Poland</td>
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<tr>
<td><strong>date of birth</strong></td>
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<td><strong>religious order</strong></td>
</tr>
<tr>
<td>Franciscan 1209-1517 group of religious orders within the Catholic Church</td>
</tr>
<tr>
<td><strong>family name</strong></td>
</tr>
<tr>
<td>Dąbrowski family name</td>
</tr>
<tr>
<td><strong>given name</strong></td>
</tr>
<tr>
<td>Marian male given name</td>
</tr>
</tbody>
</table>
Doctors' Trial (Q160721)

Nuremberg Military Trial (NMT) 1
February 7, 1947

participant in: Martin Steinbrecher

German physician
WikiData Query Service

- SPARQL endpoint to query Wikidata

Link: https://query.wikidata.org/
Built in Query Service
Built in Visualization
Projects

- WikiCite:
  [wikicite.org]
- WikiProject Law:
  [https://www.wikidata.org/wiki/Wikidata:WikiProject_Law]
- WikiProject Libraries
  [https://www.wikidata.org/wiki/Wikidata:WikiProject_Libraries]
- WikiProject Open Access:
  [https://www.wikidata.org/wiki/Wikidata:WikiProject_Open_Access]
Resources

- ARL White Paper on Wikidata: Opportunities and Recommendations [http://hdl.handle.net/1805/18902]
Questions?

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