

# Von Weit bis Nah\*: Author Profiles für die Wirtschaftswissenschaften - GND und Co. als Basis für automatisch erstellte Profile


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## *Author Profiles for economics - GND and Co. as a basis for automatic profile creation*

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Kiel / Hamburg, Germany

Thanks to Marie Machel for continuous input on the GND.

 **vBIB20** die virtuelle Konferenz rund um  
bibliothekarische Themen

**ECONBIZ**  
*Author Profiles*

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**ZBW** Leibniz-Informationszentrum  
Wirtschaft  
Leibniz Information Centre  
for Economics

# Zum Vortrag

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- Der Vortrag wird auf Englisch präsentiert. Fragen können auf Deutsch und Englisch gestellt werden.
- Wenn Sie Schwierigkeiten haben, der englischen Version zu folgen, finden Sie in diesem Beitrag relevante Informationen auf Deutsch:

<https://www.zbw-mediataalk.eu/de/2020/04/forscherprofile-in-econbiz-halbautomatische-generierung-mit-linked-open-data/>



# Von Weit bis Nah - Achtung Wortspiel

## Play on words with BibTag-Motto

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Motto des Bibliothekartags ‚Vorwärts nach weit‘ Kurt Schwitters Zitat

Erwin Weit

Fiona Nah

Fiona Fui-Hoon Nah

Prof., Dr.

**B:** 1966

**Biblio:** Ph.D. in Betriebswirtschaftslehre, Univ. of British Columbia, Sauder School of Business, 1997, M.Sc. in Informatik u. Informationswiss., National Univ. of Singapore, 1992

Profession

- Betriebswirtin
- Informatikerin

Affiliations

- Missouri University of Science and Technology
- University of Nebraska - Lincoln

# The motivation

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Author name ambiguity - a real obstacle in information retrieval

The search based on the author's name...

- almost always casts doubt on whether the result i.e. the retrieved list of publications, belongs to that author.

... authors with similar name (e.g. Joachim Wagner [1980] vs Joachim Wagner [1954]).

- does not provide a complete list of results

... different name variations (e.g. Judžin F. Fama, E. F. Fama, Eugene Francis Fama, Eugene Fama, Gene Francis Fama)

# The motivation

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- in many occasions, we are interested in further details about the author  
... birth year, affiliations, professions, ....
- about the covered topics in the author's research output  
... "income distribution", "climate change", "behavioral economics", ...
- recommending authors based on current selection  
... finding authors that are working on similar fields (e.g. "behavioral economics", ...)
- author's view on most recent topics  
... up to date information (e.g. most recent tweets)

# The aim

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To **generate** profiles for authors (e.g. for a digital library or subject portal)

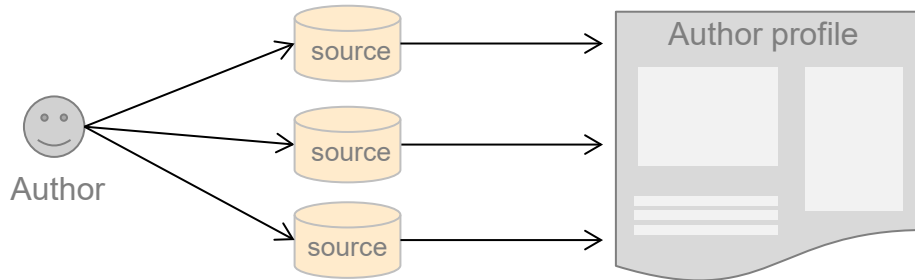
- that will obtain comprehensive information about the author
- and provide an overall view in a single place (instead of navigating to several pages)

# Proposed Approach

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Our intention is to make use of the available data, **on the fly**, instead of “creating” and storing them locally. (linking vs. creating another isolated silo of data)

## Harvesting data from other sources



...with author Name?

...should/must rely on identifiers.

# Authority files

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...several efforts for aggregating and uniquely identifying authors into clusters -  
i.e. authority files.

Authority records integrate data from several sources - name variations,  
biographical info, affiliations, etc.

each record is identified by an ID, i.e. persistent identifier.

VIAF



ORCID

RESEARCHERID



RePEc

Scopus Preview

SSRN  
Tomorrow's Research Today





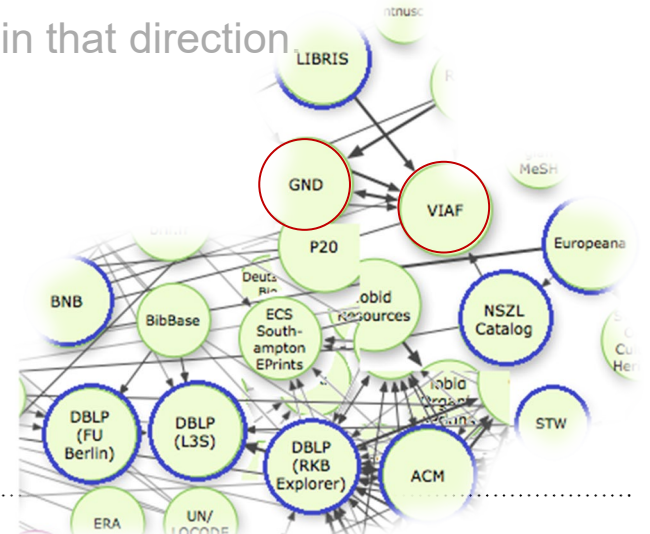
# Interlinking authority records

The deployment of Linked Data principles and Semantic Web technologies increase the **visibility**, **interoperability** and **accessibility** of the data.

In comparison to MARC format which does not offer much in that direction

Publishing the data as LOD is getting more and more popular.

For example, DNB is offering several Linked Data Services for Authority or Bibliographic data



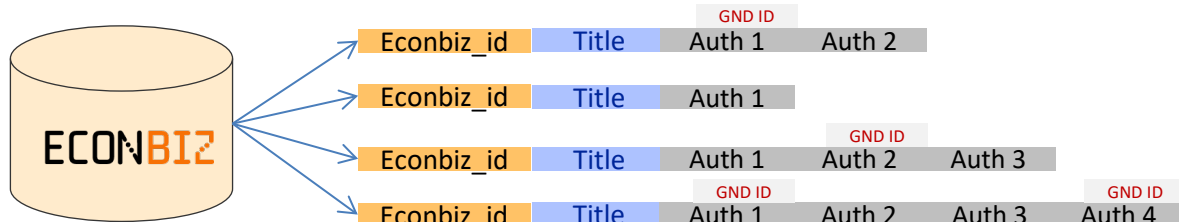
# EconBiz use case

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**EconBiz** is a subject portal for economics and business studies, provided by the ZBW - Leibniz Information Centre for Economics

~ 11 Million bibliographical records [titles]

Partial disambiguation state, concerning authors




(~ 0.5 Million authors are identified with GND ID)

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# Example


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## 70. An Analysis of the Principal-Agent Problem

Grossman, Sanford J.; **Hart, Oliver D.;**  
2001, *Levine's Working Paper Archive*  
Availability: 

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## 71. Different approaches to bankruptcy

**Hart, Oliver D.;**  
2000, *Working paper / National Bureau of Economic Research, Inc.*  
Type: *Arbeitspapier; Working Paper; Graue Literatur; Non-commercial literature;*  
Availability: 


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## 72. Incomplete contracts and ownership : some new thoughts

**Hart, Oliver D.;** Moore, John;  
2007  
Type: *Aufsatz in Zeitschrift; Article in journal;*

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## 73. Reference Points and the Theory of the Firm

**Hart, Oliver D.;**  
2007, *NBER Working Papers*  
Availability: 

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# Wikidata as a HUB

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In the case when the author is presented with any of the identifiers (e.g. RePEc short id, VIAF, ..), the range of identifiers can be extended through Wikidata

Example, top 1,000 RePEc authors

- 994 authors from that list were part of WIKIDATA,
- 987 were already mapped with GND ID
- ...the rest, missing GND ID or RePEc ID. Currently, 100% are mapped



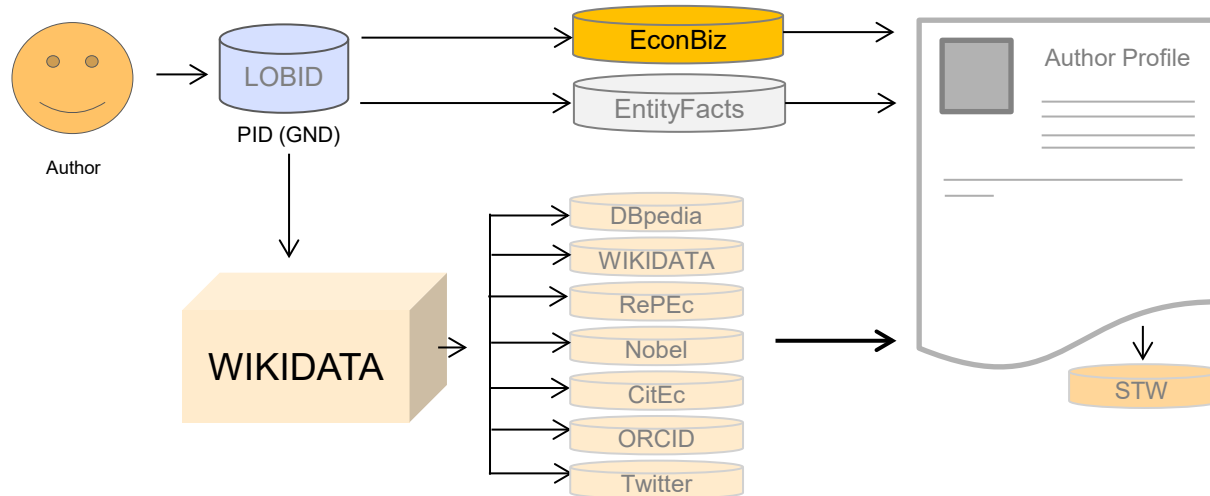
The [community](#) effort is of crucial importance.

# Author profiles – The architecture

The **GND ID** is adapted as the main identifier for authors.

Using the existing data, on the fly

- consuming several services or performing SPARQL queries to endpoints such as EntityFacts, Wikidata, DBpedia, RePEc, etc.



# Author profiles

The Entity facts service, a linked data service from the German National Library (DNB), is considered for pulling authors information (e.g. alternative names, profession, picture, affiliations, some external identifiers).

The abstract is generated from DBPedia

Other external identifiers, such as Google Scholar, SSRN, RePEc, Twitter, are retrieved from WIKIDATA, including the prizes in Economics.

Any change in these services, will reflect instantly in the results in our service.

CitEc

William D. Nordhaus

Prof. Dr.

Alternative spellings:

W. D. Nordhaus  
J. Nordhaus  
W. Nordhaus  
William Nordhaus  
William Nordhaus  
William Nordhaus  
威廉·诺德豪斯  
威廉·诺德豪斯  
威廉·诺德豪斯  
威廉·诺德豪斯

Total Citations: 5,723  
h Index: 35  
i10: 77  
Source: CitEc

EntityFacts



DBpedia

Source: Wikidata Commons  
Information about the license status of integrated media files (e.g. pictures or videos) can usually be retrieved by clicking on the Wikimedia Commons link.

William Daventry "Bill" Nordhaus (born May 31, 1941) is an economist and Sterling Professor of Economics at Yale University, best known for his work in economic modeling and climate change. (Source: CitPedia)

Profession

Economist  
Nobelpreisträger  
Hochschullehrer

Affiliations

- Yale University
- National Bureau of Economic Research

External links

- Gemeinsame Normdatei (GND) im Katalog der Deutschen Nationalbibliothek
- Bibliothèque nationale de France
- Wikipedia (Deutsch)
- Wikipedia (English)
- Deutsche Digitale Bibliothek
- NACD Authority File
- International Standard Name Identifier (ISNI)
- Virtual International Authority File (VIAF)
- Wikidata

Wikidata



Twitter

Do you agree with our terms and privacy? Show tweets

Tweets by @williamus22

**William Nordhaus** (@williamus22)

ONLINE EARNING TIPS : Remove the accumulator Facebook account to login ...  
onlineipstrick.blogspot.com/2015/01/remove...

Jan 15, 2015

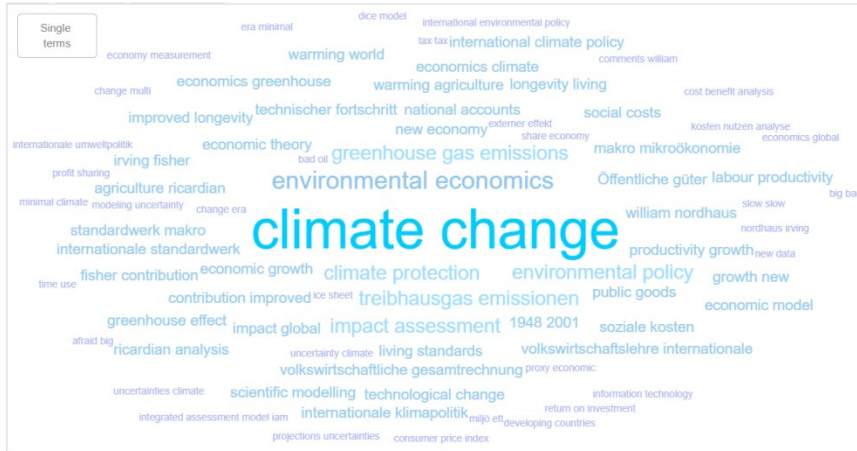
Load more Tweets

Wikidata

Prizes in Economics  
2016 - Nobel Prize in Economics

# Topic representation – EconBiz API

Using terms/concepts from **titles**, **abstracts** and **subjects**, only from publications where the corresponding **author's GND** is present.



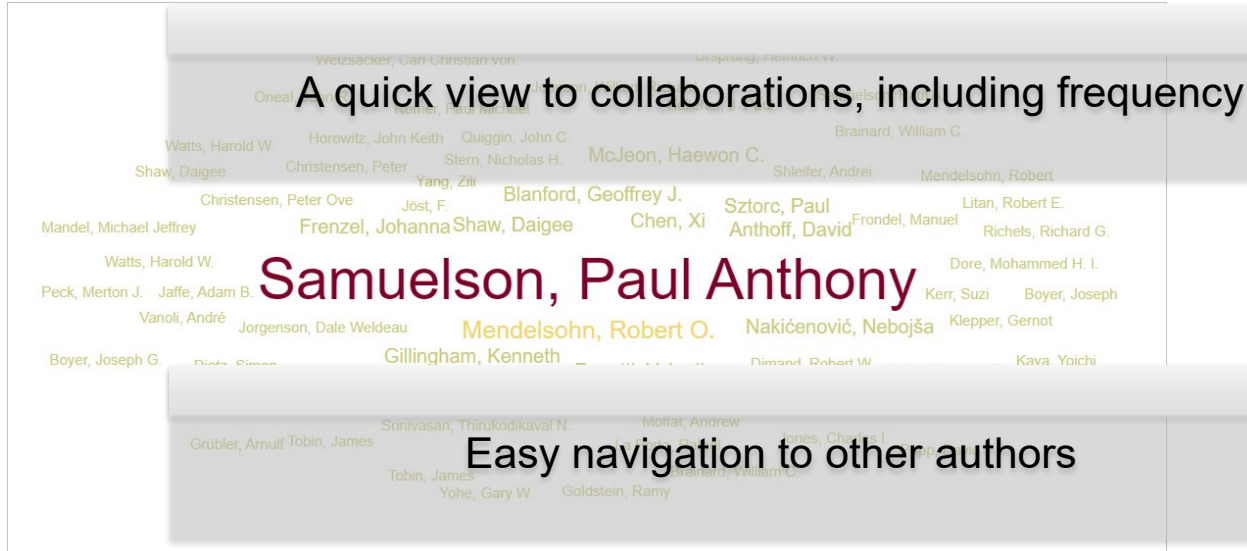
Provide an overview about the main terms / topics used in the author's research output

Help in reformulating the search query (just by clicking), to narrow down the results

climate change x ( environmental economics x OR bioeconomics x OR eco-efficiency x )

INCLUDE search term(s) EXCLUDE

# Co –authorship relations

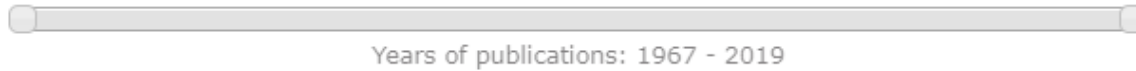


1.  Anthoff, David (4)
2.  Berger, Regina (1)
3.  Blanford, Geoffrey J. (4)
4.  Bosetti, Valentina (4)
5.  Boyer, Joseph G. (1)
6.  Boyer, Joseph (1) ➔
7.  Brainard, William C. (1)
8.  Brainard, William C. (1) ➔
9.  Chen, Xi (5)
10.  Christensen, Peter Ove (1)
11.  Christensen, Peter (2) ➔
12.  Darwin, Roy F. (2)
13.  Dietz, Simon (1)
14.  Dimand, Robert W. (2)
15.  Dore, Mohammed H. I. (1)
16.  Frenzel, Johanna (3)
17.  Frondel, Manuel (1)
18.  Gillingham, Kenneth (4)
19.  Goldstein, Ramy (1)
20.  Grubler, Arnulf (1)
21.  Horowitz, John Keith (2)
22.  Jaffe, Adam B. (1)
23.  Johnson, William Richard (1)
24.  Jones, Charles I. (1)
25.  Jorgenson, Dale Weldeau (2)
26.  Jöst, F. (1)
27.  Kaya, Yoichi (1)
28.  Kelleher, J. Paul (1)
29.  Kerr, Suzi (1)
30.  Klepper, Gernot (1)



# Further filtering

Match by: **author Name** ▾ Records to show: **10** ▾ Sort by: **Relevance** ▾



Match by: **author Name** ▾ Records to show: **10** ▾ Sort by: **Relevance** ▾

author Name  
author GND  
exclude aut

Show all the records that are matching the name 'William D. Nordhaus'.  
Note: there may be records that are matching other persons/entities with the same name.

**486** records from EconBiz based on author Name

**219** records from EconBiz based on author GND ID

## Publishing years

3	2019
4	2018
4	2017
4	2016
10	2015
3	2014
2	2013
2	2012
6	2011
11	2010
10	2009
4	2008
7	2007
7	2006
16	2005
4	2004
11	2002
8	2001
9	2000
7	1999

# Authors working on similar topics

## Authors on similar topics

Similarity level: 2 [1-more similar, 4-less similar]

Based on: thesaurus title and abstract

- Xepapadeas, Anastasios
- Edenhofer, Ottmar
- Kahn, Matthew E.
- Aronsson, Thomas
- Schöb, Ronnie
- Ströbel, Johannes C.
- Giglio, Stefano
- Sturm, Bodo
- Sommer, Stephan
- Noy, Ilan
- Buchholz, Wolfgang
- Kopp, Robert E.
- Löschel, Andreas
- Bangalore, Mook
- Kolstad, Charles D.

## Similar publications from the author's domain

1. An economist's guide to climate change science
2. What is a climate response measure? : breaking the trade taboo in confronting climate change
3. How does climate change affect optimal allocation of variable renewable energy?
4. Foreign aid and climate change policy : what can('t) the data tell us?
5. Hurricanes, climate change policies and electoral accountability
  - ↳ Hurricanes, climate change policies and electoral accountability
6. Game theory and climate change

- find scholars who work on similar topics by analyzing the entire EconBiz collection.
- slider makes it possible to display more or less similar scholars.

# Limitations

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Not all publications in the EconBiz collection are connected to a GND-ID.

- These publications cannot be used for the creation of the tag-clouds, for terms and co-authors
- missing publications in the search results - when the GND ID is specified as matching criteria
- using author name as string match criteria results in mixture of publications from two or more authors who have the same name.
- the domain - the focus of this service is on authors in the fields of Economics and Business Studies - lack of information for authors publishing on other fields

# Summary

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The author profiles provide a number of benefits

- explore the scholarly output of individual authors
- quick overviews on the research interests of a scholar
- linking to more information like co-authors or related authors
- identify other scholars who work in a similar field
- find publications relevant to a scholar's own field of interest.
- listing other author pages

Created automatically - using already existing IDs and information  
(no need for the scholar to provide data)

Can serve as a tool for quality control - makes it easy to identify possible mistakes.

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# Thank you! Questions?

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Contact us:

Arben Hajra  
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[@ahajra](#)

Dr. Tamara Pianos  
[t.pianos@zbw.eu](mailto:t.pianos@zbw.eu)  
[@taps69](#)

ZBW  
[www.zbw.eu](http://www.zbw.eu)

# DEMO

Search for author: Nobels in Economics Top 1,000 RePEc Economists

Terms: Co-authors Related authors

behavioral economics

Richard H. Thaler

Prof. Dr.

Alternative spellings:  
Richard Thaler

B: 1954 East Orange, NJ

Biblio: Nobelpreis (Wirtschaftswissenschaften) 2017

Source: Wikimedia Commons

Search for author: Nobels in Economics Top 1,000 RePEc Economists

Terms: Co-authors Related authors

climate change

William D. Nordhaus

Prof. Dr.

Alternative spellings:  
W. D. Nordhaus  
W. Nordhaus  
William Nordhaus  
William Nordhaus  
威廉·诺德豪斯  
威廉·诺德豪斯

B: 1941 Albury, Vermont, NM

Biblio: Seit 1970 an der Yale University 1989  
Associate Professor: 1973-1978 Professor: 1979-  
1993 John M. Musser Professor: 2000-6. Wilbur  
Grandoff Professor und seit 2001 ist er Sterling  
Professor für Ökonomie; Nobelpreis (Ökonomie)  
2018

<https://authors.econbiz.de>

Search for author: Nobels in Economics Top 1,000 RePEc Economists

Terms: Co-authors Related authors

evidence randomized

Esther Duflo

Prof.

Alternative spellings:  
Esther Caroline Duflo  
E. Duflo

B: 1972

Biblio: Nobelpreisträgerin für Wirtschaft 2019

# Backup slides

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# False authorship

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## 1. Religion, politician identity and development outcomes : evidence from India

Bhalotra, Sonia R.; Cassan, Guilhem; Clots-Figueras, Irma; **Lakshmi Iyer;**  
2013, *Working papers*  
Type: *Arbeitspapier; Working Paper; Graue Literatur; Non-commercial literature;*  
Availability: [Link](#)

GND: 133065375 (Economist)

## 1. Religion, politician identity and development outcomes : evidence from India

Bhalotra, Sonia R.; Clots-Figueras, Irma; Cassan, Guilhem; **Iyer, Lakshminarayana V.;**  
2013, *Working papers / Centre for Market and Public Organisation*  
Type: *Arbeitspapier; Working Paper; Graue Literatur; Non-commercial literature;*  
Availability:

GND: 137316208 (Musician)



# LOBID-Search

The screenshot shows a search interface with a search bar containing 'wagner, joachim' and a button labeled 'Nobels in Economics'. A dropdown menu is open, listing search results with filters for year and profession. The results are as follows:

Search Result	Year	Profession
Wagner, Joachim	1968-	Chemiker
Wagner, Joachim		Wirtschaftsjurist
Wagner, Joachim	1924-	Chemiker
Wagner, Joachim	1954-	Wirtschaftswissenschaftler
Wagner, Joachim		
Wagner, Joachim		
Wagner, Joachim	1903-	
Wagner, Joachim	1936-2010	Arzt, Kardiologe
Wagner, Joachim	1959-	Arzt
Wagner, Joachim		Theologe
Wagner, Joachim	1980-	Wirtschaftswissenschaftler
Wagner, Joachim	1971-	Physiker

# More Infos and FAQ

## EconBiz Author Profiles

Researchers, libraries and other institutions use authority files in order to make it easier to identify individual persons or institutions. The use of authority files helps to identify the right person if you have two or more people who share the same name (e.g. John Smith born in 1950 versus John Smith born in 1972 or John Smith, the economist, versus John Smith, the dancer). On the other hand authority files are used to bring together publications by one author whose publications appear under different names e.g. due to marriage or due to different spellings in different languages, common spelling mistakes, use of initials etc. (e.g. William D. Nordhaus, W. D. Nordhaus, U. Nordchauz, W. Nordhaus, William Nordhaus Weilian Nuodehaosi, 威廉·诺德豪斯).

This service integrated several other services such as: LOBID, Entity Facts, EconBiz API, Nobel Prize API, RePEc top authors, Wikidata and DBPedia.

EconBiz Author Profiles can be used to find more information on specific authors. Authors themselves can use it to see how others make use of named entities or linked data.

Here you can find more information on how to use EconBiz Author Profiles and FAQ.



The screenshot shows the EconBiz Author Profiles interface. At the top, there is a search bar with the text "Search for author...". To the right of the search bar is the "ECONBIZ beta" logo. Below the search bar, there are tabs for "Terms" and "Co-authors". The "Terms" tab is active, displaying a word cloud of terms related to the author's work, including "incomplete contract", "corporate governance", "contract theory", "theory of the firm", "dynamic model", "welfare analysis", "theory of property rights", "contracts reference", "analysis role", "new bankruptcy", "theory der unternehmung", "financial structure", "bankruptcy reform", "agrees with Outside ownership", "hard claim", "gold security", "incomplete contract", "reference", "hierarchies", "coordination", "single-stage", "game tree", "default renegotiation", "bankruptcy procedure", "theory of the firm", "contracts reference", "analysis role", "new bankruptcy", "dynamic model", "welfare analysis", "theory of property rights", "contracts reference". To the right of the word cloud, there is a profile for "Oliver D. Hart". The profile includes the name "Oliver D. Hart", the title "Prof.", and a list of "Alternative spellings": "Oliver Hart", "Oliver Simon O'Aray Hart", "Oliver Simon O'Aray Hart", "Oliver S. Hart", "O. D. Hart". Below the name, there is a small image of the author and the text "B: 1948" and "BibTeX: Nobelpreisträger für Wirtschaftswissenschaften".

## FAQ

[What is the GND?](#)

[Why is the page not properly displayed?](#)

[Can I query the results?](#)

[How is the topics tag cloud created? What is the basis?](#)

**For Authors**

[I cannot find my name. Why is that? Can I do anything about it?](#)

[Can my profession be changed?](#)

[Can a new affiliation be added to my name?](#)

[Why is my picture not shown in the profile? How can I add more infos?](#)

[Why are links to other author profiles \(e.g. Google Scholar, ORCID, Twitter\) missing?](#)

[Why is the publication list not complete?](#)

[I am an author: Can I disable my profile?](#)

<https://www.econbiz.de/eb/de/beta/econbiz-author-profiles/>

<https://www.econbiz.de/eb/de/help-econbiz-author-profiles/>

# Description of main features in English and German

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## Forscherprofile in EconBiz: Halbautomatische Generierung mit Linked Open Data

Die EconBiz-Autorenprofile zeigen die wichtigsten Forschungsgebiete von Autorinnen und Autoren der Wirtschaftswissenschaften auf, erleichtern die Suche nach der richtigen Person im Falle doppelt vorkommender Namen und liefern zusätzliche Informationen zur Person.

<https://www.zbw-mediataalk.eu/de/2020/04/forscherprofile-in-econbiz-halbautomatische-generierung-mit-linked-open-data/>

**ZBW**  
MEDIATALK

## Researcher Profiles in EconBiz: Semi-Automated Generation Based on Linked Open Data

The EconBiz Author Profiles show the most important research areas of an author in Business Studies and Economics, make it easy to get information on the right person in case of duplicate names and provide additional information on the author. Comprehensive author information is provided on one page. The profiles are created by linking existing data and identifiers.

<https://www.zbw-mediataalk.eu/2020/04/researcher-profiles-in-econbiz-semi-automated-generation-based-on-linked-open-data/>

# COVID-19 Subject page: growing rapidly

Search for author... Nobels in Economics Top 1,000 RePEc Economists ECONBIZ beta

GND: 1206288906

Terms Co-authors Related authors Click on a term to reduce result list

Single terms

INCLUDE search term(s) EXCLUDE

Records: 10 Sort by: Relevance

556 records from EconBiz

1. Staatliche Förderung in Zeiten des Corona-Virus

COVID-19

Alternative spellings:  
SARS-CoV-2  
Coronavirus

Source: Wikimedia Commons

Information about the license status of integrated media files (e.g. pictures or videos) can usually be called up by clicking on the Wikimedia Commons URL above.

Coronavirus disease 2019 (COVID-19) is an infectious disease caused by severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2). The disease was first identified in December 2019 in Wuhan, the capital of China's Hubei province, and has since spread globally, resulting in the ongoing 2019–20 coronavirus pandemic. Common symptoms include fever, cough, and shortness of breath. Other symptoms may include muscle pain, sputum production, diarrhea, sore throat, loss of smell, and abdominal pain. While the majority of cases result in mild symptoms, some progress to viral pneumonia and multi-organ failure. As of 4 April 2020, more than 1.18 million cases of have been reported in more than two hundred

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