



NATIONAL LIBRARY
OF POLAND

Marcin Roszkowski

Integration of Polish National Bibliography within the repository platform for science and humanities

The best thing to do to your data will be thought of by somebody else

W3C LLD

Agenda

- Polish National Bibliography (PNB) in a nutshell
- SyNat Project
- Issues of integration
 - e-resources and PNB / indexing online resources
 - metadata **interoperability** and **reusability**

The Polish National Bibliography



PNB

- Several bibliographic datasets
- Differentiation : type of resource
- Available free of charge (for non-commercial purposes)
 - PDF files
 - Web application
 - <http://mak.bn.org.pl/w10.htm>
 - Z39.50 protocol

PNB online

The Bibliographic Guide (Przewodnik Bibliograficzny)

- monographs,
- online : 1973 -
- over 650 000 records

The Index to Periodicals (Bibliografia Zawartości Czasopism)

- selective bibliography,
- papers from major polish journals (over 2000 titles),
- online 1996 –
- over 750 000 records

PNB online

- Bibliography of New, Ceased and Changed Titles Serials
- Bibliography of Serials
- **Bibliography of Electronic Documents**
- Bibliography of Sound Recordings
- Bibliography of Cartographic Materials
- Foreign Polonica
 - works published abroad, written in Polish or by Poles or about Poland

Bibliography of Electronic Documents

- Coverage
 - works published since 2001
- Content:
 - monographs, periodicals
 - e-books
 - National Library of Poland E-Book Repository
 - online resources are excluded
- Cataloging
 - ISBD(ER)
 - MARC 21

PNB / cataloging

```
LDR      $b n $c a $d m $e + $f + $g i $h +4500
001      $a b24684776
008      $a 100204s2010++++pl+a+++++++!001+0+pol++
015      $a PB 13387/2011
020      $a 9788301160937
040      $a WA N $c WA N
041 1.   $a pol $h eng
080      $a 159.944.4
080      $a 159.91
100 1.   $a Sapolsky, Robert M.
245 10  $a Dlaczego zebry nie mają wrzodów? : $b psychofizjologia stresu / $c
      Robert M. Sapolsky ; [przel. Małgorzata Guzowska-Dąbrowska].
246 1.   $i Tyt. oryg.: $a Why zebras don't get ulcers? : $b a guide to stress,
      stress related diseases, and coping, $f 1994
260      $a Warszawa : $b Wydawnictwo Naukowe PWN, $c 2010.
300      $a 448, [3] s. : $b il. ; $c 24 cm.
490 1.   $a Biblioteka Psychologii Współczesnej
504      $a Indeksy.
650 .4  $a Stres $x fizjologia
650 .4  $a Stres $x psychologia
700 1.   $a Guzowska-Dąbrowska, Małgorzata. $e Tl.
830 .0  $a Biblioteka Psychologii Współczesnej
920      $a 978-83-01-16093-7
```


PNB / access points

SZUKANIE, SPOSÓB 1

Wybierz indeks, który chcesz obejrzeć

Autor_osoba Autor_korp. Tytuł Słowo_w_tyt. Temat/okr. Hasło_przedm

Seria Wydawca Data_wydania

SZUKANIE, SPOSÓB 2

Szukanie wg wielu indeksów

wpisz całe szukane hasło (dokładnie w takiej postaci, w jakiej występuje w indeksie)
naciśnięcie klawisza "?" rozwija wskazany indeks, potem kliknięcie na wybranej wartości automatycznie ją przenosi

Autor_osoba ?

Autor_korp. ?

Tytuł ?

Słowo_w_tyt. ?

Temat/okr. ?

podane teksty są połączone spójnikiem: i lub

szukaj





INFINITI
PASSIM

SyNaT - System for Science and Technology

- Three-year project (2010-2013) sponsored by National Center for Research and Development
- Goals:
 - to create national **system for information science**
 - to create a universal, open, repositorial, hosting and communications **platform** for network stores of knowledge for science, education and open society of knowledge
- Participants: network of 16 institutions
 - universities, libraries, research centers

SyNaT - System for Science and Technology



- Rich-content platform
 - Institutional repositories
 - Digital collections
 - Bibliographic databases
 - Datasets
- Journal hosting services
- Content management systems
 - Adding and managing content / User and institutional profiles
- Business and legal models

SyNaT - System for Science and Technology

- Toolkit:
 - Data processing & analysis
 - Semantic searching
 - NLP applications
 - Image / audio processing
- Tools for social networking



Two complementary parts / two homogeneous applications

Infinity

- Leader: University of Warsaw
- Coverage:
 - project management,
 - platform infrastructure,
 - multimedia indexing,
 - automatic information extraction,
 - ...

Passim

- Leader: Warsaw University of Technology
- Coverage:
 - bibliographic metadata,
 - digital library collections
 - interoperability,
 - business and legal models
 - ...



Photo by Ed Swinden (2/17/17 363 585)

C. Borgman

ALIAS: C. L. Borgman, Christine L. Borgman, Christine Borgman

[FOAF](#) [Follow](#)

Position: Professor Presidential Chair
 Affiliation: Department of Information Studies Graduate School of Education and Information Studies
 Address: 235 GSE&IS Building Box 951520, UCLA Los Angeles, CA 90095-1520
 Phone: (310) 825-6164
 Fax: (310) 206-4460
 Email: borgman at gseis.ucla.edu

[EDIT](#)



H-index:	18	Uptrend:	0.09	Diversity:	0.64
#Papers:	54	Activity:	0.49	Sociability:	89.34
#Citations:	2099	Longevity:	33	More Statistics...	

No bio information available.

[EDIT BIO](#)

Research Interest

Digital Libraries,digital library,Information Science [EDIT](#)

Hide Temporal Interests (Do you want to see the change of his/her research interests?)

Period	Interests
2009-2010	virtual organization,semantic Web,Life Cycles
2007-2008	Digital Libraries,digital library,Data Quality
2005-2006	digital library,Exploratory Study,Scientific Data
2003-2004	digital library,Global Information Infrastructure,digital learning environment
2001-2002	Case Study,Digital Libraries,digital library

See Others:

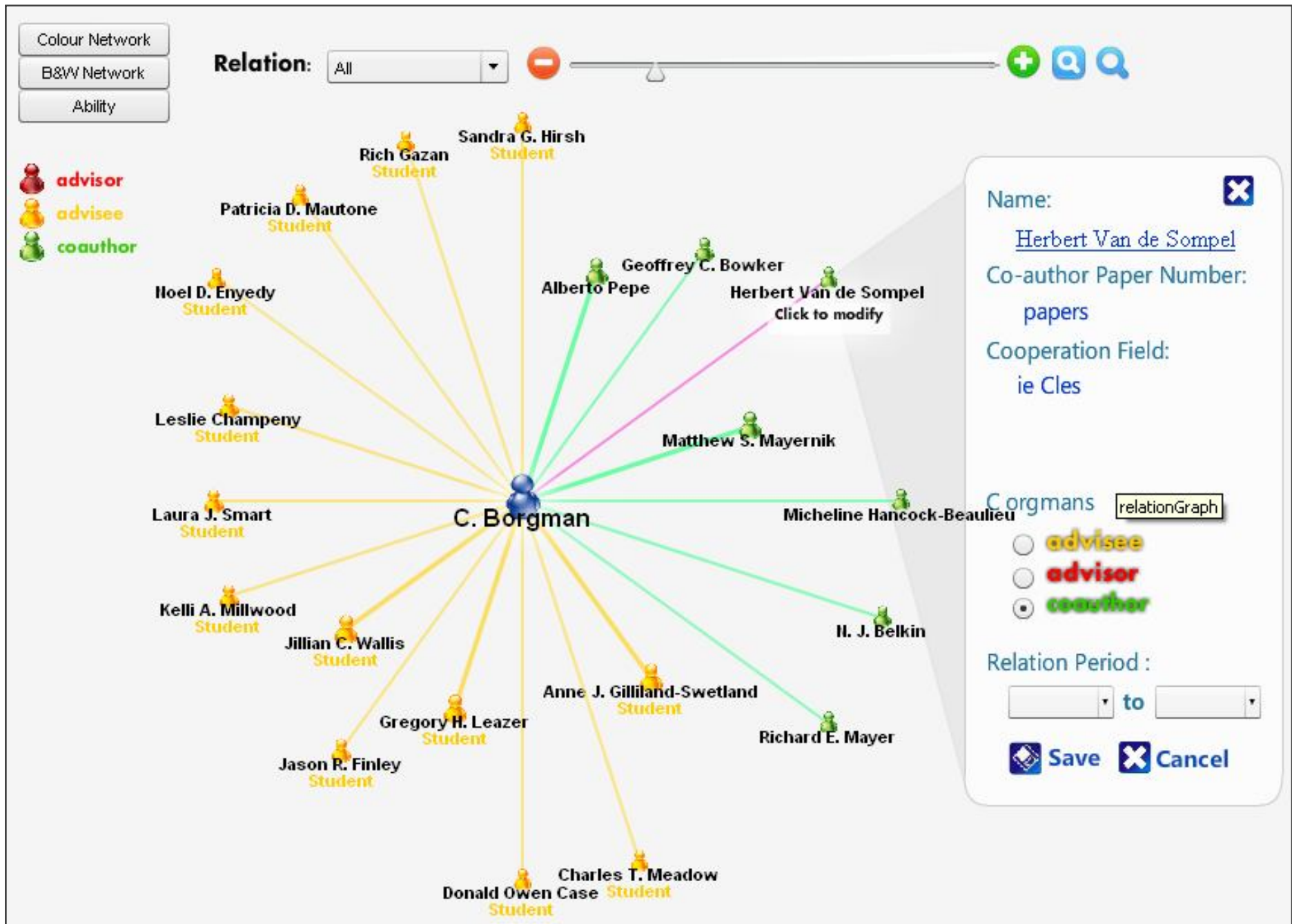
- Anne Gilliland-Swetland** [Follow](#)
Coauthor-Count: 6, H-index: 3
- Gregory H. Leazer** [Follow](#)
Coauthor-Count: 6, H-index: 2
- Bruce Croft** [Follow](#)
Coauthor-Count: 1, H-index: 50
- Jillian C. Wallis** [Follow](#)
Coauthor-Count: 7, H-index: 5

Expertise:

Information Retrieval / Probabilistic Indexing (20)
 Digital library / Information Access (18)
 Software Engineering (3)
 Mobile Robot / Hybrid Control (2)
 Interactive Computer Systems / Knowledge Acquisition (2)
 XML Data (1)

Conference:

JCDL (7),JASIS (7),SIGIR (6),ECDL (4),Inf. Process. Manage. (4),JASIST (3)



Arnet Miner Social Graph

PASSIM, e-resources and PNB



Web Archiving - As things stand

- Polish law: **web documents are copyrighted**
 - Exclusion:
 - Document published on public institution websites
 - Official (government, administration) online documents
- National Digital Archives
 - Internet Archive Project (2009-)
 - *.gov.pl / 41 institutional web services / 0,5 TB data

PNB and online resources

- Lack of specific regulation regarding **web archiving** and **e-legal deposit**
- PASSIM Deliverable B2-B4: Identification of high-quality web resources as an important type of content for users
 - A chance to develop methodology for indexing online resources for PNB

Indexing Online Resources

- Working Group:
 - Goal : to develop methodology for collecting and indexing web resources for PASSIM platform
 - acquisition, quality assessment, description.
 - Participants:
 - National Library of Poland, Warsaw University of Technology, Jagiellonian University

Indexing Online Resources

- Domain oriented methodology – **manual indexing**
 - Domains:
 - » National Library of Poland:
 - social sciences, arts & humanities, business, economy
 - » Warsaw University of Technology:
 - medicine, veterinary, mathematics, physics, astronomy, biology, life sciences, agriculture.
 - » Jagiellonian University:
 - chemistry, engineering, informatics.

Indexing Online Resources

- Selection criteria:
 - Development of a European Service for Information on Research and Education (DESIRE Project)
 - Intute
 - BazTol : Polish Technical Sciences Subject Gateway
 - National Science Digital Library
 - PANDORA : Australia's Web Archive
 - ...

Indexing Online Resources / access / internal

Baza: [PASSIM](#)

Indeks: Typ_dok.

Szukasz: BLOGI

zmień indeks


wróć do indeksu

wróć do listy

drukuj

=====
LDR a ##### b n c m d i e + f a g 2 h 2 i ##### j + k i l + m 4500
007 a C b Γ c + d + e Π f + g + + + h + i + j + k + l +
008 a 111229 b + c + + + + d + + + + e + + + f + + + + i + j + + + l + m + n + p + + + + + s + + + t + u +
040 a W A N c W A N
041 0. a [pol](#)
245 00 a Edukacja informacyjna / **Ewa Rozkosz**.
256 a Usługi online.
516 8. a [Blogi](#).
520 8. a Informacje na temat konferencji i szkoleń bibliotekarskich, wykorzystania nowych technologii w uczeniu się i nauczaniu, kultury i kompetencji informacyjnych.
521 a Strona wspierająca działalność naukową.
080 a [37](#)
653 a [Kształcenie](#)
690 a Pedagogika
080 a [02](#)
653 a [Bibliotekarstwo](#)
690 a Bibliotekoznawstwo i informacja naukowo-techniczna
080 a [00](#)
653 a [Informacja](#)
080 a [37](#)
653 a [Edukacja](#)
690 a Pedagogika
700 1. a [Rozkosz, Ewa](#).
856 40 u <http://www.edukacjainformacyjna.pl/>
999 a ZIN-PASSIM b gl

Indexing Online Resources / access / OPAC

Komputerowy Katalog Zbiorów Bibliotek UJ [Jagiellonian Library](#) [JU Libraries](#) [Jagiellonian University](#)  polski

Start Screen Search Search History Cart Patron Access Save Session Close Session

Full Record

List of Titles
Record 1 of 1

full | **marc**

Full Record

Total Requests 0 Unsatisfied Requests 0

You searched UJ - xx002165185

Author **Gawlik, Wojciech (1948-).**

Title **Podstawy fizyki atomowej 2009 - wykład [Dokument elektroniczny] / prowadzący Wojciech Gawlik ; Zakład Fotoniki. Grupa Optyki Kwantowej i Nieliniowej.**

Imprint Kraków : Uniwersytet Jagielloński. Zakład Fotoniki, Grupa Optyki Kwantowej i Nieliniowej, 2009.

Added Entry **Uniwersytet Jagielloński. Grupa Optyki Kwantowej i Nieliniowej.**

Notes Tyt. z ekranu tytułowego.

Notes Publikacja tylko o dostępie zdalnym.

Notes Prezentacja.

Summary Czternaście wykładów z fizyki atomowej i cząsteczkowej.

Multimedia Link http://www.if.uj.edu.pl/pl/ZF/wykladyWG/p_fiz_atom_2009_wyk.htm
Wymagany Acrobat Reader

[Save to Cart](#)

Search

Browse


Search Type:
Author
Words:




[more options >>](#)




filter settings

No Active Filters

[Set Session Filters >>](#)

 **Help**

Indexing Online Resources / access / Digital Library



Jagiellońska Biblioteka Cyfrowa
Uniwersytet Jagielloński



[Strona główna](#) [Kolekcje](#) [Kontakt](#) [zaloguj](#) lub [zarejestruj się](#)

Wydanie

- Opis
- Informacje
- Treść
- Treść (nowe okno)
- Pobierz
- Komentarz
- Wyniki wyszukiwania
- Podobne wydania

Eksport metadanych

- OAI-PMH
- RDF
- RIS
- BIBTEX

Ulubione pozycje

- Dodaj do Ulubionych
- Tagowanie

Opis wydania

Podstawy fizyki atomowej 2009 : wykład

Tytuł:
Podstawy fizyki atomowej 2009 : wykład

Autor:
Gawlik, Wojciech (1948-)

Wydawca:
Uniwersytet Jagielloński. Zakład Fotoniki, Grupa Optyki Kwantowej i Nieliniowej

Miejsce wydania/powstania:
Kraków

Data:
2009

Język:
pol

Zakres:
21 w.

Temat i słowa kluczowe:
fizyka atomowa

PROWADZĄCY

Prof. dr hab. Wojciech Gawlik
[\[e-mail\]](#)
[\[Zakład Fotoniki\]](#)
[\[Grupa Optyki Kwantowej i Nieliniowej\]](#)

WYKŁADY

Wykład I	v. 2009	[PPT PDF]
Wykład II	v. 2009	[PPT PDF]
Wykład III	v. 2009	[PPT PDF]
Wykład IV	v. 2009	[PPT PDF]
Wykład V	v. 2009	[PPT PDF]
Wykład VI	v. 2009	[PPT PDF]
Wykład VII	v. 2009	[PPT PDF]
Wykład VIII	v. 2009	[PPT PDF]
Wykład IX	v. 2009	[PPT PDF]
Wykład X	v. 2009	[PPT PDF]
Wykład XI	v. 2009	[PPT PDF]
Wykład XII	v. 2009	[PPT PDF]
Wykład XIII	v. 2009	[PPT PDF]
Wykład XIV	v. 2009	[PPT PDF]



PASSIM, e-resources and PNB

- Outcomes for PNB:
 - Functional requirements
 - Methodology for domain oriented indexing of web resources
 - Initial set of records (PNB – over 7000 records)
- Semi-automated approach seems to be **inevitable**

PASSIM – PNB

metadata interoperability
(ontology vs. MARC21)



PASSIM ontologies

- **System ontology**
 - Based on Semantic Web for Research Communities Ontology (SWRC)
 - Namespaces: BIBO, Dublin Core Terms, Semantic Web Conference Ontology, FOAF, RDF Schema, ...
- **GIO**
 - geographic information objects ontology
- **Subject areas ontology**
 - areas / domains / disciplines

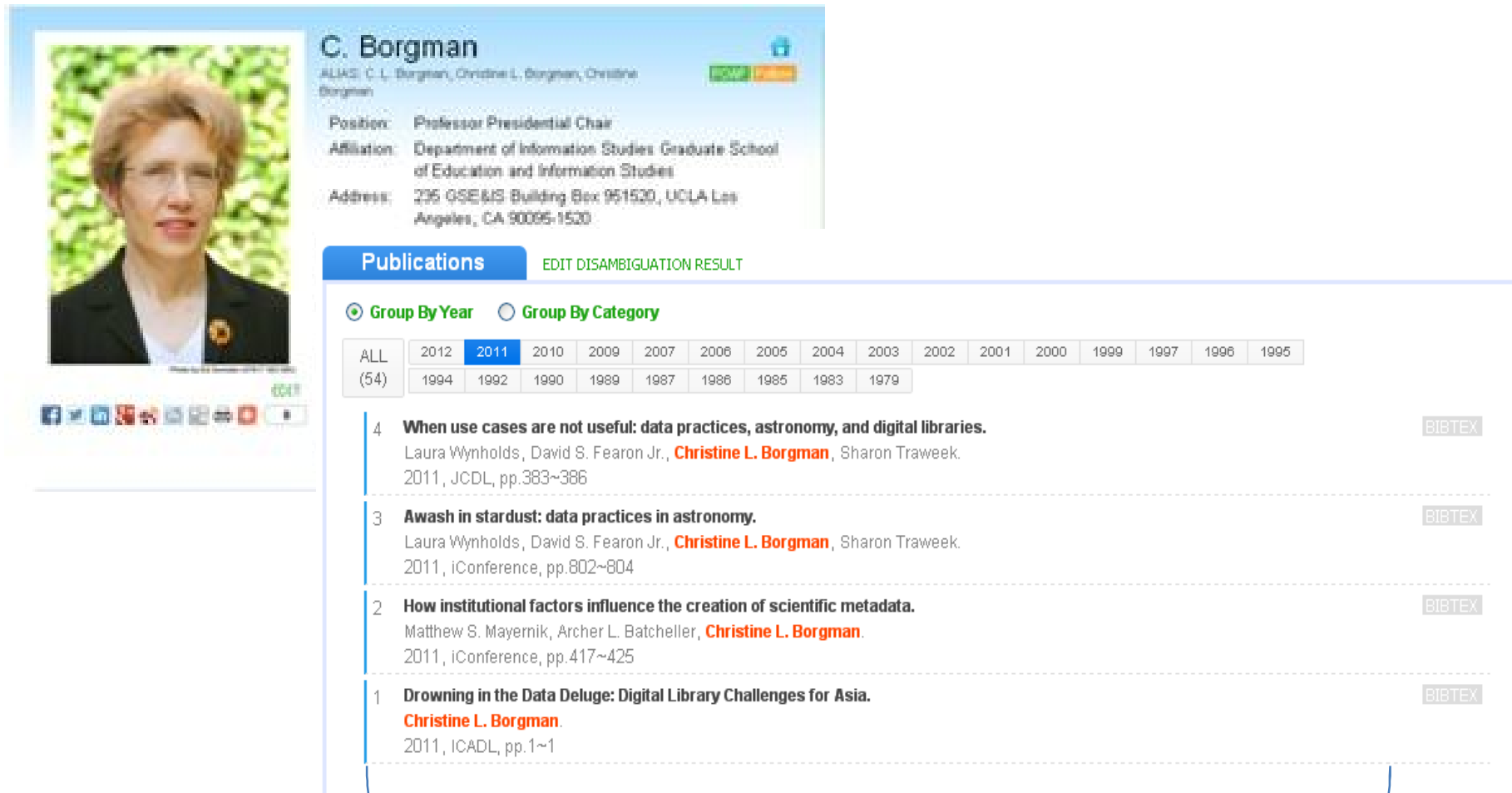
„From tags to triples”

MARC 21					RDF		
Label	Field	Indicator 1	Indicator 2	Subfield	Subject	Predicate	Object
Control number	1				foaf:Document	dc:identifier	xsd:string, xsd:long
Control number identifier	3				foaf:Document	dc:creator	foaf:Organization
ISBN	20			a	bibo:Document, frbr:Manifestation	bibo:isbn, bibo:isbn10, bibo:isbn13	xsd:string
ISSN	22			a	bibo:Periodical, frbr:Manifestation	bibo:issn	xsd:string
Cataloging source	40			a	foaf:Document	dc:creator	foaf:Organization
Language code	41			a	bibo:Document, frbr:Work	dc:language	lvont:Language
Country of publishing/producing entity code	44			a	bibo:Document, frbr:Manifestation		geo:Feature
Main entry – personal name	100			a	bibo:Document, frbr:Work	dc:creator	foaf:Person
Title statement – title	245			a	bibo:Document, frbr:Work	dc:title	xsd:string

PASSIM – PNB metadata reusability

Guidelines: Re-use of records includes downloading or export of batches of records into other databases and/or other computer applications

PASSIM / PNB / person / list of publications



C. Borgman
ALIAS: C. L. Borgman, Christine L. Borgman, Christine Borgman

Position: Professor Presidential Chair
Affiliation: Department of Information Studies, Graduate School of Education and Information Studies
Address: 295 GSE&IS Building Box 951520, UCLA Los Angeles, CA 90095-1520

Publications EDIT DISAMBIGUATION RESULT

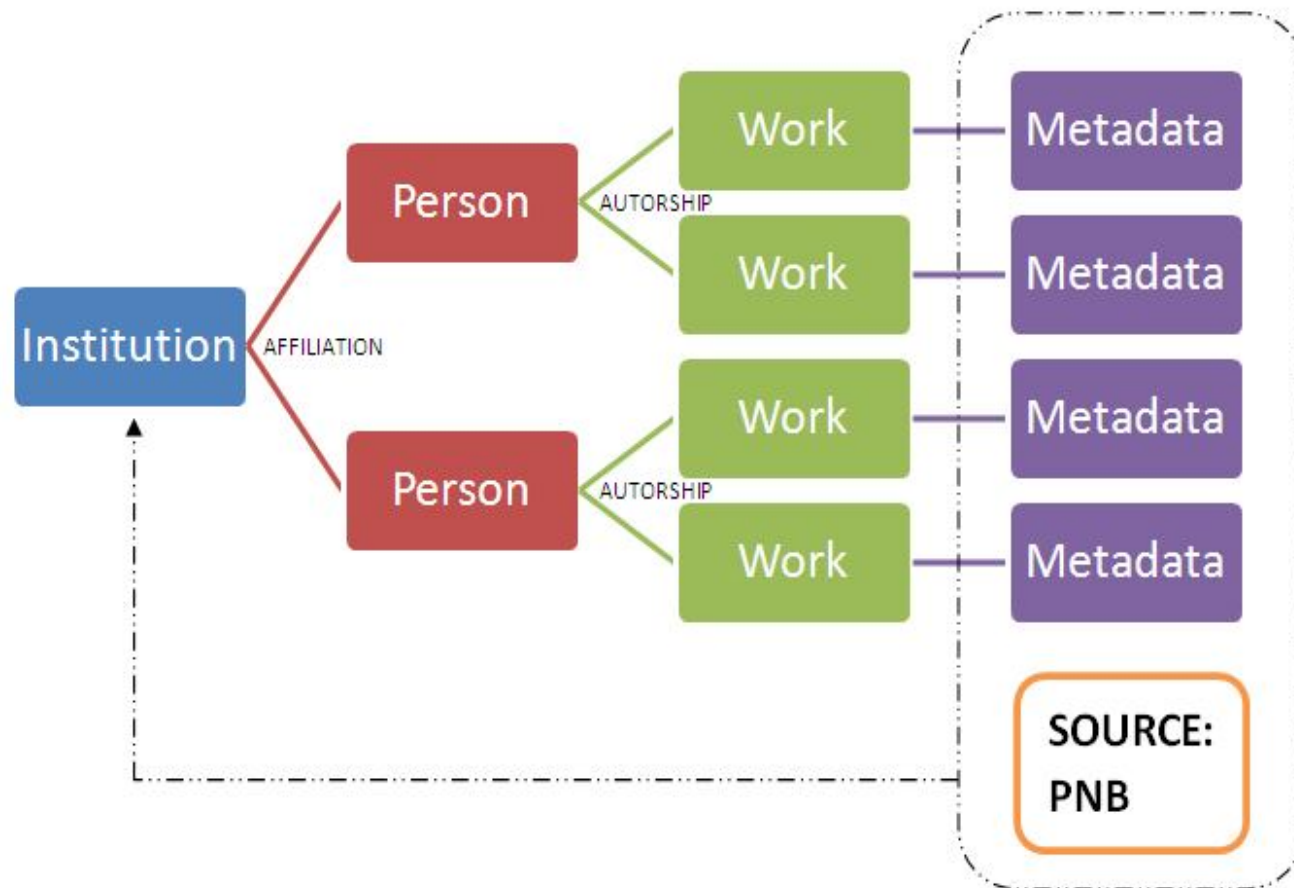
Group By Year Group By Category

ALL (54)	2012	2011	2010	2009	2007	2006	2005	2004	2003	2002	2001	2000	1999	1997	1996	1995
	1994	1992	1990	1989	1987	1986	1985	1983	1979							

- 4 **When use cases are not useful: data practices, astronomy, and digital libraries.** Laura Wynholds, David S. Fearon Jr., **Christine L. Borgman**, Sharon Traweek. 2011, JCDL, pp.383~386 BIBTEX
- 3 **Awash in stardust: data practices in astronomy.** Laura Wynholds, David S. Fearon Jr., **Christine L. Borgman**, Sharon Traweek. 2011, iConference, pp.802~804 BIBTEX
- 2 **How institutional factors influence the creation of scientific metadata.** Matthew S. Mayernik, Archer L. Batcheller, **Christine L. Borgman**. 2011, iConference, pp.417~425 BIBTEX
- 1 **Drowning in the Data Deluge: Digital Library Challenges for Asia.** **Christine L. Borgman**. 2011, ICADL, pp.1~1 BIBTEX

Source : PNB

PASSIM / PNB / affiliation / list of publications



PASSIM / PNB / project / list of publications



- MARC 21
 - 536 ##\$a Sponsored by the Advanced Research Projects Agency through the Office of Naval Research
 - \$bN00014-68-A-0245-0007
 - \$cARPA Order No. 2616
- PASSIM ONTOLOGY
 - Class : Project
 - Attribute: generatedPublication

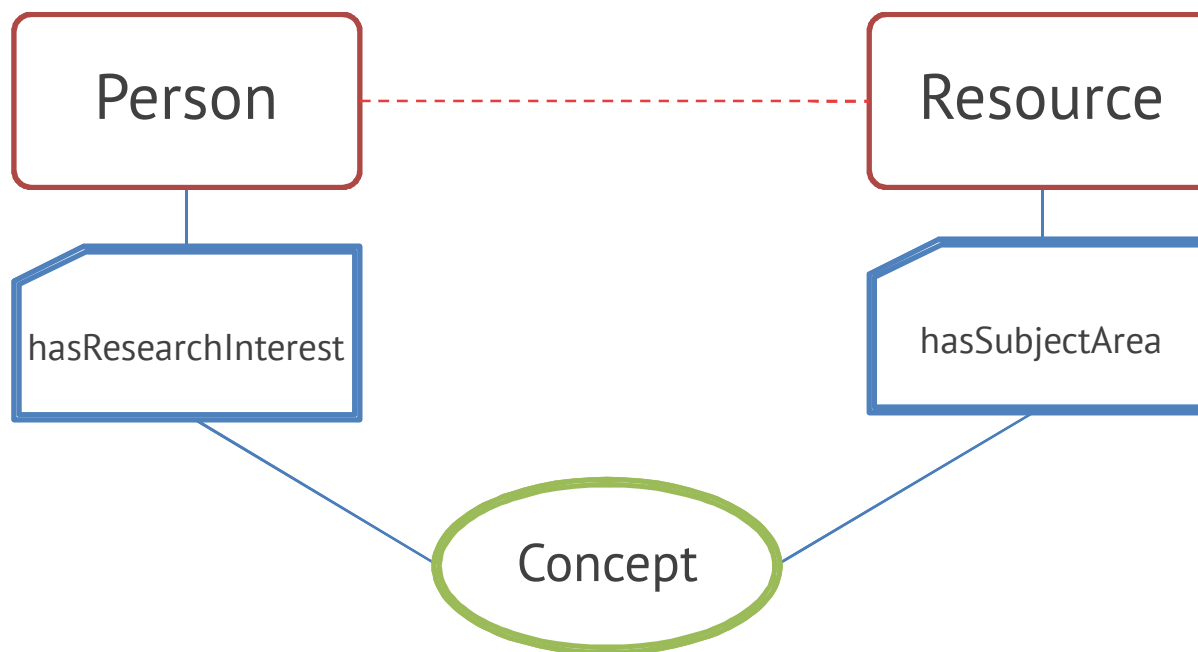
PASSIM / PNB / personalization



- Basic Data
- Position
- Affiliation
- Authorship
- Role in scientific events
 - Project X participant
- Research Interest
 - hasResearchInterest1
 - hasResearchInterest2
- ...



PASSIM / PNB / personalization



PASSIM / PNB

/ selective distribution of information

- To select publications from PNB relevant to used search term
- To select the latest publications from PNB according to **user research interest**
- To import metadata from PNB according to user **authorship / other contribution**
- To create **list of references** on topic X...
- ...

Different modes of display / import



PASSIM / PNB / problems to solve

- From MARC21 to PASSIM Ontology
 - Mappings needed
- Implementation of authority files
 - What?
 - name authority file
 - subject headings
 - How?
 - RDF, SKOS, ...
- Identifiers
 - PASSIM URI's vs. National Bibliography Number



NATIONAL LIBRARY
OF POLAND

Marcin Roszkowski

Thank You

The best thing to do to your data will be thought of by somebody else

W3C LLD

Illustrations

- <http://www.howitworksdaily.com/wp-content/uploads/2011/05/Nutshell-small.jpg>
- <http://www.flickr.com/photos/ivanwalsh/3649492427>
- <http://dynamicorange.com/uploads/Semantic%20Marcup.pdf>

