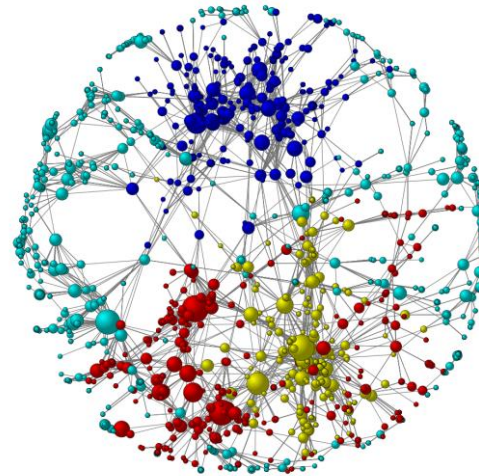


**Researcher Identity Management in the 21st Century Networked World:
A Pilot Study of American University in Cairo Faculty.**



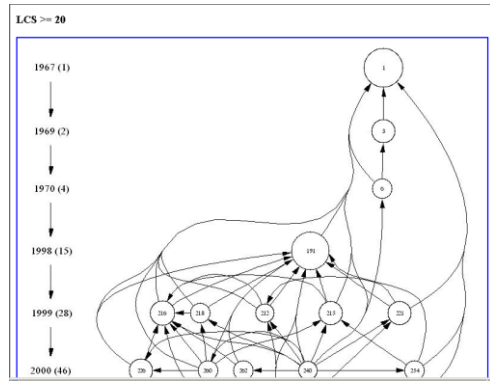
Anchalee Panigabutra-Roberts
American University in Cairo Libraries
New Cairo, Egypt

SWIB15
24 November 2015
Hamburg, Germany

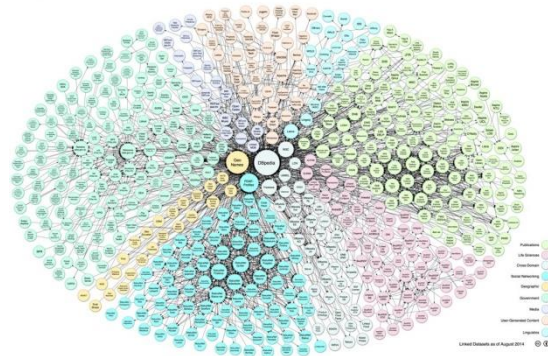
Outline

- Background: my professional and research interests
- Overview of the pilot study
- The population and the sample set
- Review of the author identifier systems
- Preliminary findings
- Implications for the Linked Data environment
- Future data analysis

The genealogy of my professional and research interests.

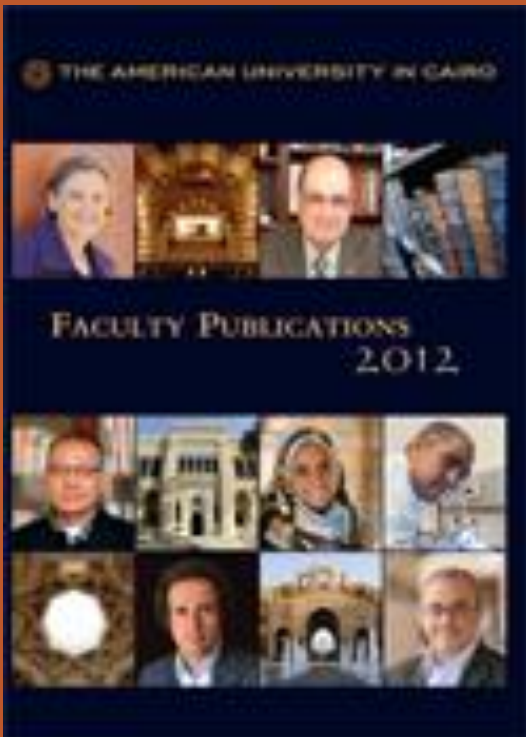


Last updated: 2014-08-30



- **Scholarly Communication and Citation Analysis**
- **HistCite: Mapping the Knowledge Domain** (Garfield, 2004). I used HistCite to identify core literature on human trafficking for researchers at University of Nebraska-Lincoln
- **SWIB14 -> BIBFRAME, Linked Open Data and the Semantic Web in GLAM**
- **Authorities Data in Cataloging**
- **Researcher Identifiers Systems** (Smith-Yoshimura and others, 2014)

The Pilot Study



Research Questions:

- 1) How have the faculty at the American University in Cairo (AUC) distributed and shared their scholarly and creative works?
- 2) How are their names identified in various author identifier systems and/or on the Web?

Research Goal: To explore how best to represent the faculty and their scholarly and creative works as Linked Data.

The Population: AUC faculty members with publication records.

The Sample: [AUC Faculty Publications: 2012 Calendar Year.](#)

The Pilot Study's Random Sample:

**55 AUC faculty members listed in
*Faculty Publications 2012***

Pilot Study: Data Collection and Analysis Methods



Fifty-five faculty names were randomly selected and searched in author identifier systems to answer:

- 1. If they are registered and/or self-registered in these systems;**
- 2. If their names are consistent or with variants and how the variants are handled;**
- 3. Which metadata are used;*
- 4. Which sources of data are used to verify the names;*
- 5. Which other data to consider.**

*** For this presentation, the data analysis was based on nos. 1, 2 and 5.**

**** Data from nos. 3 and 4 were used, as needed, to verify some names and for additional data interpretation.**

Notes on Data Collection and Analysis (1)

- The following data in [AUC Faculty Profiles](#) were used to verify the faculty's identity in the i.d. systems:
 - Names
 - Photos
 - Work history
 - Publications
 - Other relevant information.

- **Some Limitation of [AUC Faculty Profiles](#):**
 - A roster as of July 2015
 - AUC faculty listed in the 2012 publication, who already left AUC, are no longer included in the profiles.
 - The data are not open (derived from [E.Repertoire](#), a research and faculty activities database supported by [Digital Measures](#)).

Notes on Data Collection and Analysis (2)

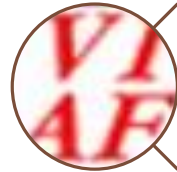
- The majority of **publications are in English**.
- **Professional i.d. services** (LCNAF, VIAF, ISNI and also Google Scholar) do accommodate **multilingual data and non-Roman scripts**.
- In the **self-registered i.d. services** (Google Scholar and ResearchGate), AUC faculty in the sample created **their profiles in English only**.
- **Limited to the i.d. systems with open data**.
- Limited to **the Romanized form of names** (authors' own spelling), especially for the Arabic names.
- Names in Arabic scripts were used for verification, whenever available.

Researcher Identity Services Included in the Pilot Study

Selected Professional and Self-registered Services



**Library of Congress Name Authority File
(LCNAF)**



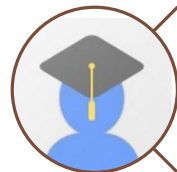
**Virtual International Authority File
(VIAF)**



**International Standard Name Identifier
(ISNI)**



ResearchGate



Google Scholar

Library of Congress Authority Records

“An authority record is a tool used by librarians to **establish forms of names (for persons, places, meetings, and organizations), titles, subjects, and genres and forms** used on bibliographic records. Authority records enable librarians to provide uniform access to materials in library catalogs and to provide clear identification of authors and subject headings. ...

Authority records also provide **cross references to lead users to the headings used in the catalog.**” -- LCNAF – FAQ:
<http://authorities.loc.gov/help/auth-faq.htm#1>

LC Name Authority:

Professor Ana Gil-Garcia.

LC control no.: no2002012579

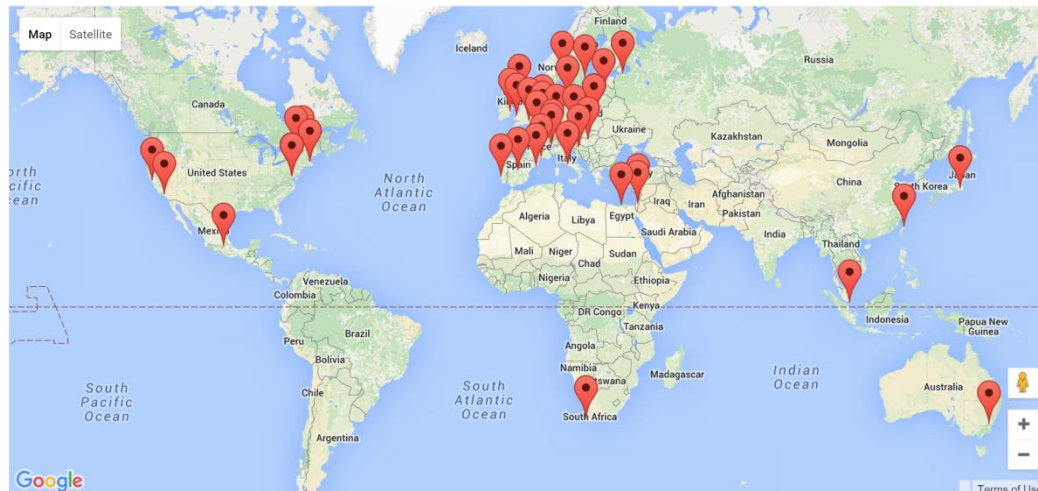
LCCN permalink: <http://lcn.loc.gov/no2002012579>

Personal name heading: Gil-Garcia, Ana

Variant(s): Garcia, Ana Gil-

Found in: Helping middle and high school readers, c2001: t.p. verso (Ana Gil-Garcia)

VIAF: Virtual International Authority File



“The VIAF® (Virtual International Authority File) **combines multiple name authority files into a single OCLC-hosted name authority service.**”

The goal of the service 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.”**
– VIAF’s homepage (<https://viaf.org/>)

VIAF Contributors

 [Library of Congress/NACO](#)

National Library of Mexico

British Library

National Agricultural Library (U.S.)

National Library of Medicine (U.S.)

National Library of New Zealand

National Library of Scotland

National Library of South Africa

National Library of Wales

 [German National Library](#)

 [National Library of France](#)

 [National Library of Sweden](#)

 [National Library of Australia](#)

 [National Library of Spain](#)

 [National Library of Portugal](#)

 [Central Institute for the Union Catalogue of the Italian libraries](#)

 [National Library of the Czech Republic](#)

 [National Library of Israel](#)

Israel Museum

 [Library of Alexandria, Egypt](#)

 [Vatican Library](#)

 [Swiss National Library](#)

 [Library and Archives Canada](#)

 [Union List of Artist Names \[Getty Research Institute\]](#)

 [NUKAT Center of Warsaw University Library](#)

 [National Széchényi Library, Hungary](#)

 [RERO - Library Network of Western Switzerland](#)

 [Sudoc \[ABES\], France](#)

 [Flemish Public Libraries](#)

 [National Library of Norway](#)

 [DBC \(Danish Bibliographic Center\)](#)

Danish Agency for Culture

 [National Diet Library, Japan](#)

 [National Library Board, Singapore](#)

 [National Library of Latvia](#)

 [National Library of Poland](#)

 [National Library of Catalonia](#)

 [Lebanese National Library](#)

 [Perseus](#)

 [Syriac Reference Portal](#)

 [Wikidata](#)

 [National and University Library in Zagreb](#)

ISNI: International Standard Name Identifier



ISNI: 0000 0001 2314 4259

“ISNI is an ISO certified global standard for identifying the millions of contributors to creative works and those active in their distribution, including writers, artists, creators, performers, researchers, producers, publishers, aggregators, and more. It is [a] part of a family of international standard identifiers that includes identifiers of works, recordings, products and right holders in all repertoires, e.g. DOI, ISAN, ISBN, ISRC, ISSN, ISTC, and ISWC.” – ISNI
Homepage (<http://www.isni.org/>)

VIAF and ISNI

([Angjeli, MacEwan and Boulet, 2014](#))



VIAF Virtual International Authority File

Search

Select Field:

Select Index:

All VIAF

Gil-Garcia, Ana  

VIAF ID: 14431747 (Personal)

Permalink: <http://viaf.org/viaf/14431747>

ISNI: [0000 0000 4555 0365](#)

Preferred Forms

 100 1 _ [†a Gil-Garcia, Ana](#)

 100 1 _ [†a Gil-Garcia, Ana](#)

Leader	00000nz a2200037n 45 0
001	ISNI 0000000045550365 (VIAF cluster) (Authority/Source Record)
003	ISNI
005	20151009134758.0
008	151009nneanz abbn n and d
035	‡a (ISNI)0000000045550365
035	‡a (OCoLC)0000000045550365
100	1 ‡a Gil-Garcia, Ana
400	1 ‡a Garcia, Ana Gil-
921	‡a educational research service ‡b Educational Research Service ‡9 1
922	‡a US ‡9 1
943	‡a 200x ‡9 2
950	‡a riggs ernestine gates ‡A Riggs, Ernestine Gates ‡d 1938- ‡9 1
995	‡a http://viaf.org/viaf/14431747 ‡2 viafid ‡9 1
996	‡2 BNE XX997508
996	‡2 LC no2011006191



ResearchGate

“ResearchGate is built by scientists, for scientists.

It started when two researchers discovered first-hand that collaborating with a friend or colleague on the other side of the world was no easy task.

Founded in 2008 by physicians [Dr. Ijad Madisch](#) and [Dr. Sören Hofmayer](#), and computer scientist [Horst Fickenscher](#), ResearchGate today has more than 8 million members. ” – About page: <http://www.researchgate.net/about>

Issues to consider:

- **Not an open-access service.** One needs to have an account with ResearchGate to access authors’ full profiles and publications.
- **Free, but not innocent.** Investors include Bill Gates (Empson, 2013).

Professor Clement Henry

Clement Henry  11.57



University of Texas at Austin, Austin · Center for Asian A...

OVERVIEW

CONTRIBUTIONS

INFO

STATS

RG SCORE

27

PUBLICATIONS

260

Reads

82

Citations

6.35

Impact Points

[View stats](#)



University of Texas at Austin

Center for Asian American Studies

Austin, TX, United States

FEATURED PUBLICATIONS

[View all](#)



Article: Ben Ali's "New Tunisia" (1987—2009): A Case Study of Authoritarian Modernization in the Arab World by Steffen Erdle

Clement M. Henry ·

4

Reads

0

Citations



Article: Ben Ali's "New Tunisia" (1987-2009): A Case Study of Authoritarian Modernization in the Arab World (review)

Clement M. Henry ·

SKILLS AND EXPERTISE (1)

[View all](#)

Public Policy Analysis

TOP CO-AUTHORS

[View all](#)



Catherine Boone  19.36 ·  21.22 · (2)

The London School of Economics and P...

[Follow](#)



Robert Springborg (2)

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14 FOLLOWERS

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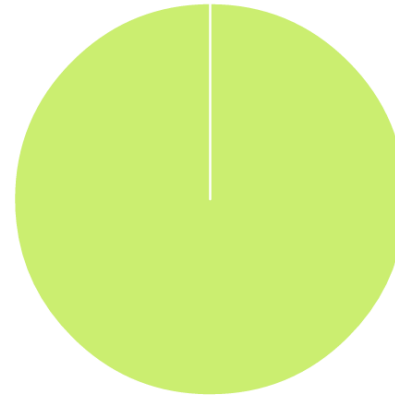
11.57

RG Score

A new way to measure scientific reputation.

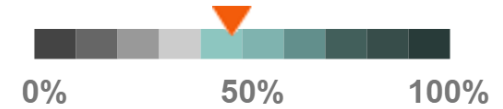
The RG Score takes **all** your research and turns it into a source of reputation.

- PUBLICATIONS
- QUESTIONS
- ANSWERS
- FOLLOWERS

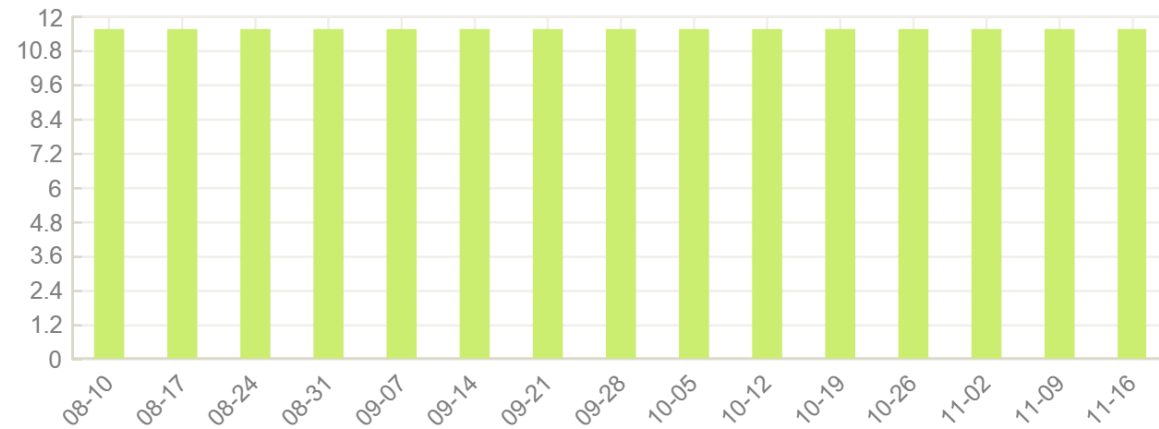


PERCENTILE

Clement Henry's score is higher than 47.5% of ResearchGate members'.



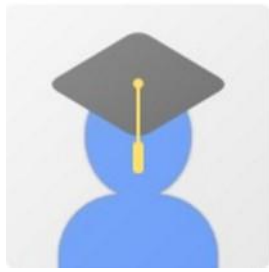
RG SCORE OVER TIME



How does the RG Score work?

Your RG Score is calculated based on the publications in your profile and how other researchers interact with your content on ResearchGate.

[See your RG Score](#)

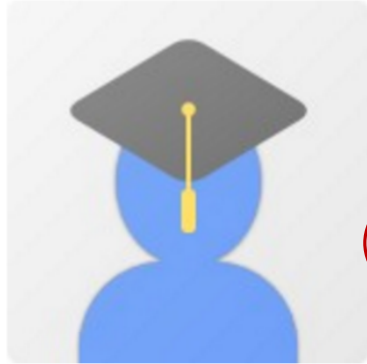


Google Scholar*

“From one place, you can **search across many disciplines and sources: articles, theses, books, abstracts and court opinions, from academic publishers, professional societies, online repositories, universities and other web sites.** Google Scholar helps you find relevant work across the world of scholarly research.” – About page: <https://scholar.google.com/intl/en/scholar/about.html>

***Publications in ResearchGate are indexed by Google.**

Google Scholar: Professor Henry's two profiles.



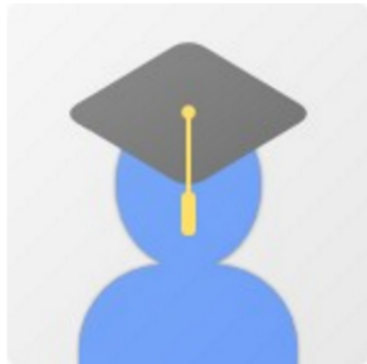
Clement Moore Henry

Chair, Political Science Department, American University in Cairo

Verified email at aucegypt.edu

Cited by 1998

islamic finance Middle East North Africa banks.



Clement Moore Henry

University of Texas at Austin Emeritus

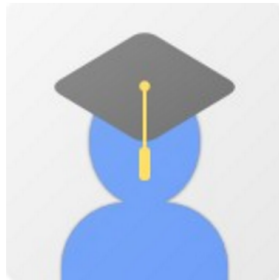
Verified email at mail.utexas.edu

Cited by 888

political economy of MENA Islamic finance Algeria

Google Scholar:

Professor Henry's AUC profile = the more active profile.



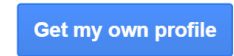
Clement Moore Henry



Chair, Political Science Department, [American University in Cairo](#)
[islamic finance](#), [Middle East](#), [North Africa](#), [banks](#).
Verified email at [aucegypt.edu](#)

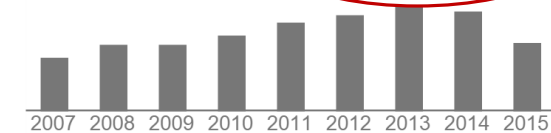
Title	1-20	Cited by	Year
Globalization and the Politics of Development in the Middle East	CM Henry, R Springborg Cambridge University Press	422	2010
Authoritarian politics in modern society: the dynamics of established one-party systems	SP Huntington, CH Moore Basic Books (AZ)	218	1970
Islam and the moral economy: The challenge of capitalism	C Tripp Cambridge University Press	192	2006

Google Scholar

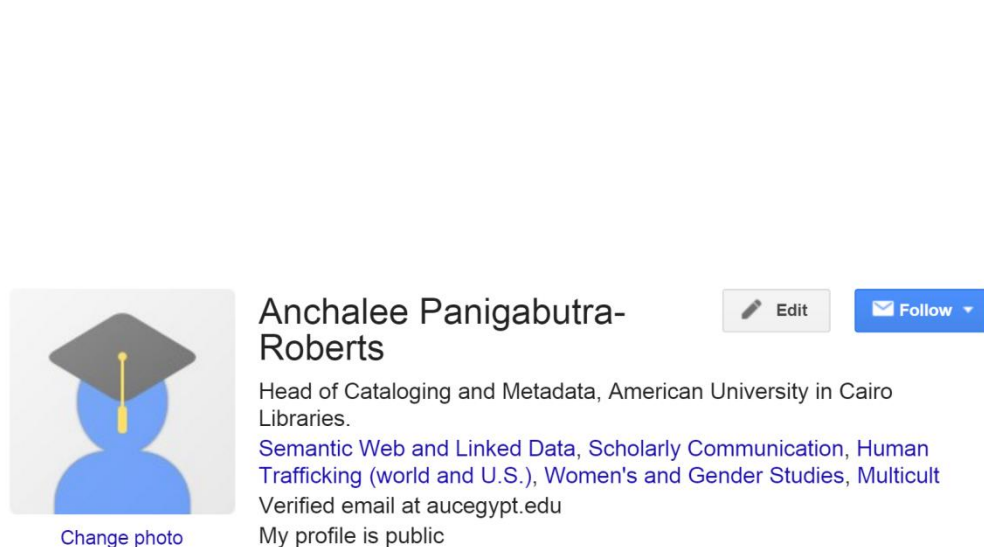



Citation indices

	All	Since 2010
Citations	1995	858
h-index	17	12
i10-index	32	14



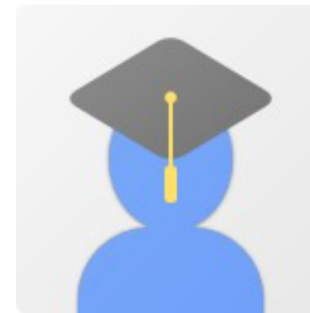
Google Scholar's Privacy Choice




Change photo

Anchalee Panigabutra-Roberts
Head of Cataloging and Metadata, American University in Cairo Libraries.
Semantic Web and Linked Data, Scholarly Communication, Human Trafficking (world and U.S.), Women's and Gender Studies, Multicult
Verified email at aucegypt.edu
My profile is public

Edit Follow



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Name

Anchalee Panigabutra-Roberts

Affiliation

Head of Cataloging and Metadata, American Un

Areas of interest

Semantic Web and Linked Data, Scholarly Comr

Email for verification

anchalee.proberts@aucegypt.edu

Homepage

Make my profile public

Save

Cancel

<https://scholar.google.com/citations?user=zH7SxhQAAAAJ&hl=en>

AUC and the Faculty: Facts and Figures 2014-15

- ❑ AUC is one of the liberal arts institutions in [AMICAL Consortium](#)
- ❑ **Founded** in 1919
- ❑ **Full-time Enrollment: 6,907:**
 - ❑ Undergraduate students 5,627
 - ❑ Graduate students 1,280
- ❑ **Undergraduate, Graduate and Non-degree Programs**
- ❑ **Graduate Programs:** PhD, Master, Diploma and Non-degree programs. (*PhD programs started in 2010 in Engineering and Applied Sciences departments.*)
- ❑ **Language of instruction:** English

Number of Teaching Faculty	422
Total Number of Faculty	491
Faculty-to-Student Ratio	1:12
Percentage of Faculty Who Hold PhDs	72%
Percentage of Egyptian Faculty	51%
Percentage of American Faculty	29%
Percentage of Faculty from Other Countries	20%

AUC Faculty Publications: 2012 Calendar Year.

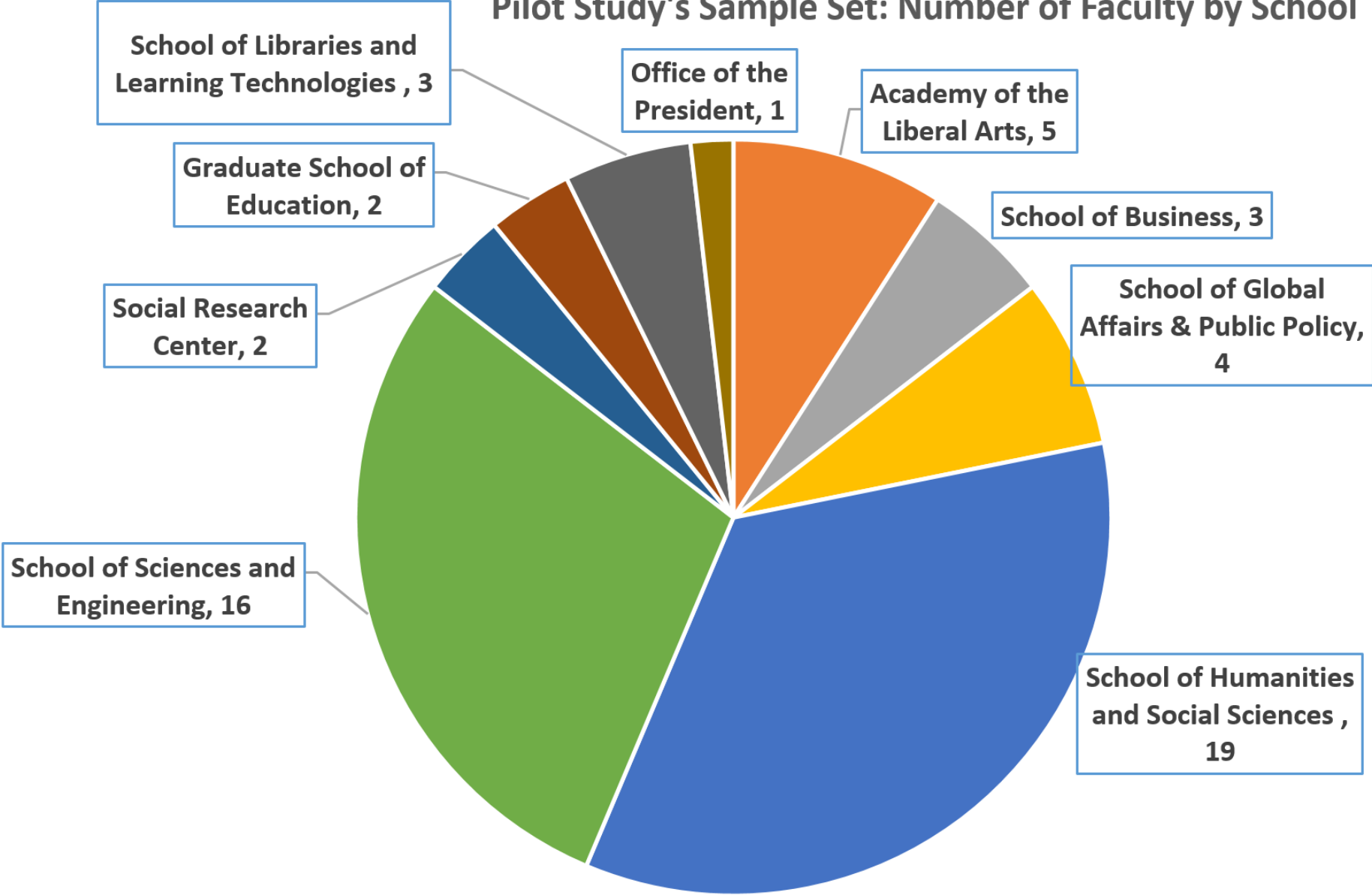
(The most current year available, due to changes in the administration.)

Table Three: Average Number of Publications in 2012 by School (All Faculty)

School	No. of Faculty	Published	%Published	BK	EB	BC	BR	RJ	CP	NM	AW	CS	ME	CW	EN	TR	PT	TL	OP
ALA	120	31	25.8%	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.1	0.1
BUS	59	35	59.3%	0.1	0.0	0.2	0.0	0.9	0.4	0.3	0.0	0.2	0.2	0.0	0.0	0.2	0.0	0.0	0.0
GAPP	39	19	48.7%	0.0	0.0	0.1	0.1	0.5	0.2	6.6	0.0	0.0	1.2	0.1	0.0	0.1	0.0	0.0	0.3
HUSS	117	79	67.5%	0.1	0.1	0.4	0.1	0.6	0.1	1.1	0.1	0.0	0.6	0.8	0.3	0.0	0.0	0.1	0.2
SSE	114	86	75.4%	0.0	0.0	0.0	0.0	1.0	1.4	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.2	0.0	0.1
GSE	9	2	22.2%	0.0	0.0	0.2	0.0	0.4	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
LLT	14	4	28.6%	0.0	0.0	0.0	0.0	0.4	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
Grand Total	472	256	54.2%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

HUSS & SSE dominate in number of faculty who published.

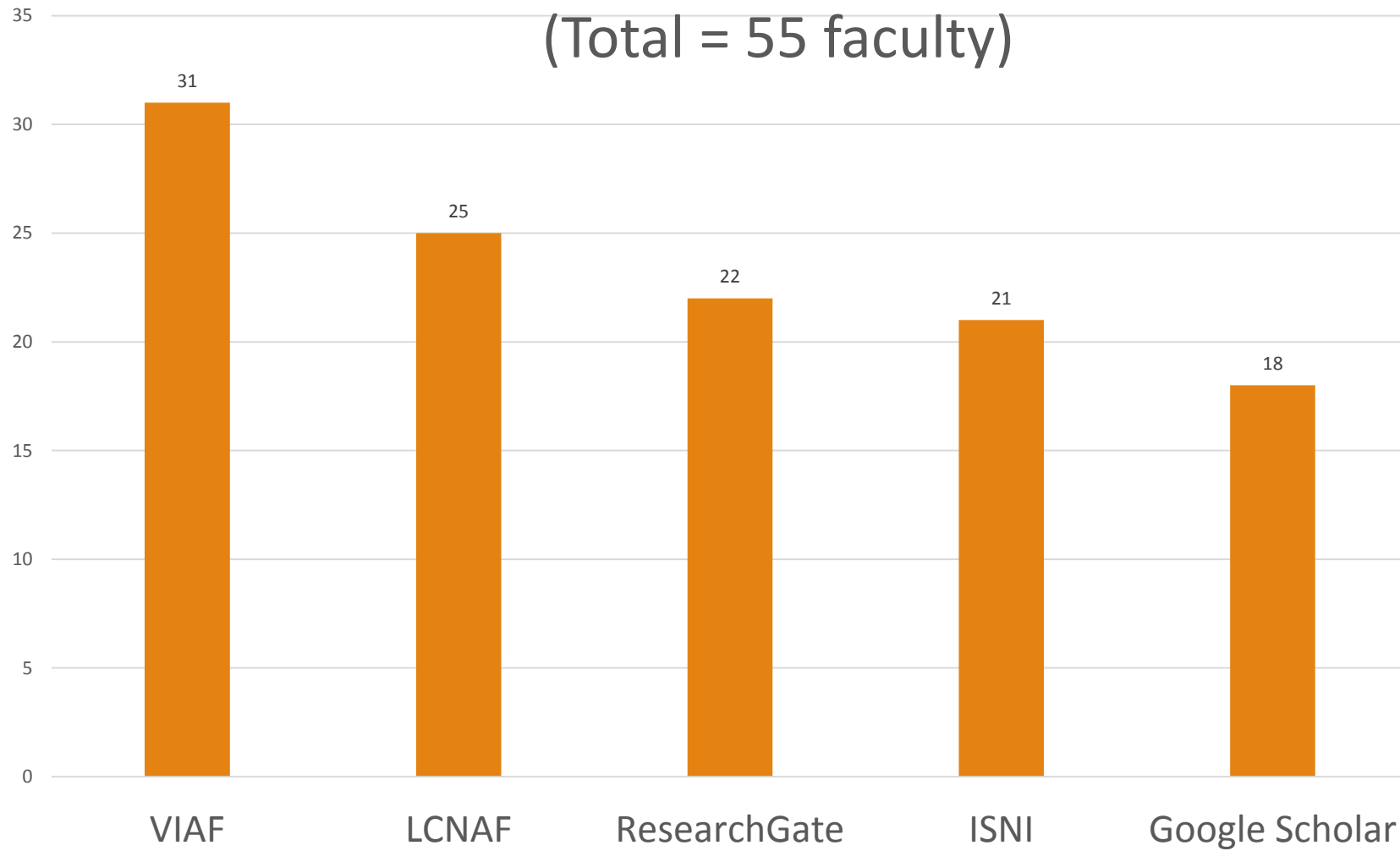
Pilot Study's Sample Set: Number of Faculty by School



Total number of faculty in the sample = 55

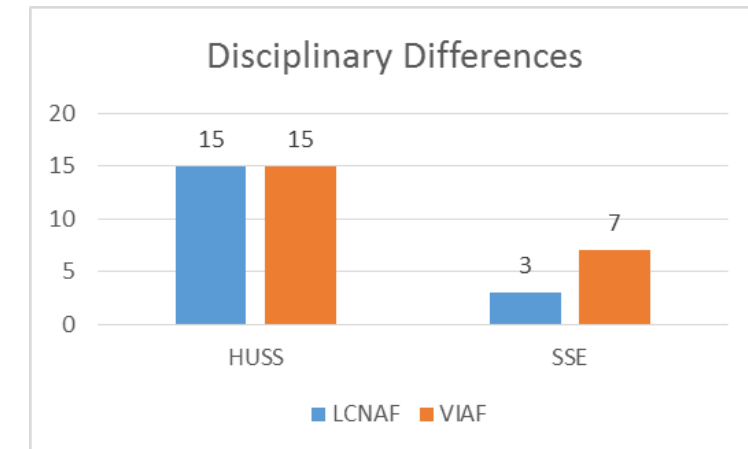
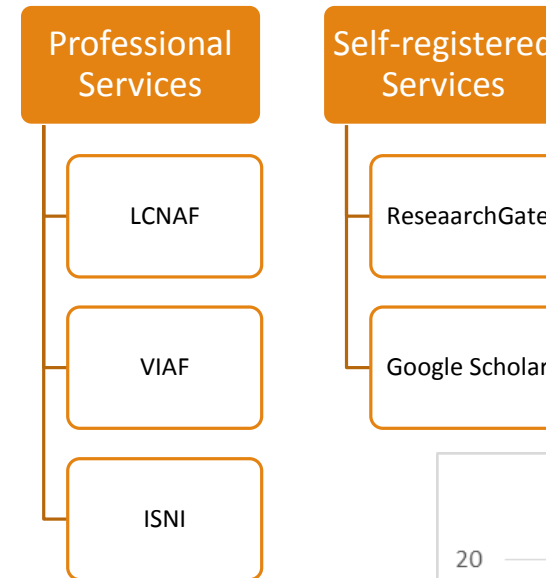
AUC Faculty Found in the Selected Researcher Identity Services: Pilot Results

(Total = 55 faculty)



Preliminary Findings

- **Service categories emerged from the data; professional and self-registered services.**
- **Accomplished authors/researchers** are listed in more services than others.
- **Disciplinary differences:**
 - **HUSS faculty are better represented in LCNAF and VIAF than SSE faculty.**
 - **SSE faculty**, who are not in LCNAF, are represented **in VIAF**.
- **Publication types:** Most **SSE** faculty publications, especially in Engineering, are **conference proceedings**. Thus they are not well-represented in LCNAF and VIAF.




Preliminary Findings (cont.)

- **LCNAF and VIAF** are better for **creators of whole books** than with authors of book chapters.
- Authors of book chapters are likely to be **listed only in the content note** area of catalog records (for AACR2R and RDA-based cataloging with MARC21), not as added authors with their own metadata fields.

***Women and social media in the Egyptian revolution* / Naila Hamdy and Lindsey Conlin.** In Berenger, R. D. (2013). *Social media go to war: rage, rebellion and revolution in the age of Twitter*. Spokane, Washington : Marquette Books. <http://www.worldcat.org/oclc/828932544> (as listed in MARC 505 – content note). (1 of 39 contributors of this book).

Naila Hamdy's Book Chapter in Result no. 1

Home Search Create list

 [Advanced Search](#) [Find a Library](#)

Search results for 'naila hamdy'

Results 1-10 of about 27 (.30 seconds)

[Select All](#) [Clear All](#) Save to:





Format

- All Formats (27)
- Article (14)
- Chapter (1)
- Book (10)
- Thesis/dissertation (7)
- Print book (3)
- Archival material (2)
- Encyclopedia article (1)

Refine Your Search

Author

- [Hamdy Naila](#) (2)
- [Pintak Lawrence](#) (2)
- [Riham Ibrahim Abd...](#) (1)
- [Salma Hany Mohamm...](#) (1)
- [Jabbar Audah Al-O...](#) (1)
- [Show more ...](#)

-  [Social media go to war : rage, rebellion and revolution in the age of Twitter](#)
by Ralph D Berenger;
 Print book [View all formats and languages »](#)
Language: English
Publisher: Spokane, Wash. : Marquette Books, ©2013.
Database: WorldCat
[View all editions »](#)
-  [Broadcast, internet, and TV media in the Arab world and small nations : studies in recent developments](#)
by Jabbar Audah al-Obaidi; William G Covington;
 Print book [View all formats and languages »](#)
Language: English
Publisher: Lewiston, N.Y. : Edwin Mellen Press, ©2010.
Database: WorldCat
[View all editions »](#)

Professor Naila is listed as an author of the journal articles; but not the book chapter.

On the plus side, search results for books and articles are listed together, and the Linked Data includes the abstract.

▼ Refine Your Search

Author

- [Hamdy Naila](#) (2)
- [Pintak Lawrence](#) (2)
- [Riham Ibrahim Abd...](#) (1)
- [Salma Hany Mohamm...](#) (1)
- [Jabbar Audah Al-O...](#) (1)
- [Show more ...](#)

OCLC WorldCat

Search results for 'naila hamdy' > 'Hamdy Naila'

Format

- All Formats (2)
- Article (2)

Refine Your Search

Author

- [« All Authors](#)
- Hamdy Naila

Year

- [2012](#) (1)
- [2009](#) (1)

Language

- [English](#) (1)

Results 1-2 of about 2 (.09 seconds)

[Select All](#) [Clear All](#) Save to: [New List] Save

- [Framing the Egyptian Uprising in Arabic Language Newspapers and Social Media](#)
by Naila Hamdy; Ehab H Gomaa
Article
Language: English
Publication: Journal of Communication, v62 n2 (April 2012): 195-211
Database: Wiley Online Library
- [Building capabilities of Egyptian journalists in preparation for a media in transition](#)
by Naila Hamdy
Article
Language: English
Publication: Journal of Arab & Muslim Media Research, v1 n3 (200904): 215-243
Database: CrossRef

Implications

- ✓ Enhance catalog records: add faculty names as added authors for writers of book chapters
- ✓ User services for **Researcher Identity Management**. For an example: [Utrecht University Library's *Research impact & visibility: researcher profiles*](#).
- ✓ Promote [AUC Digital Archive and Research Repository \(DAR\)](#) for faculty publications.
- ✓ **Mobility & morbidity factors**. Consider archiving the webpages of AUC faculty profiles for those who left AUC or passed away.
- ✓ **Linked Data's challenge**: to map linkage among the researcher i.d. services, disciplinary-specific databases and institutional repositories **to form a single author space as Linked Data for each faculty member**.
- ✓ **LCNAF, VIAF, ISNI, ORCID with SCOPUS** are making a good effort to link authors' identities and publication profiles.
- ✓ Next, to cross **link with the self-registered services?**

Self-registered Services

PROS

- Create one's **own research identity**
- **Ease of use**
- **Automatic updates** for new publications (Google Scholar and ResearchGate)
- **E-mail updates on usage, statistics, and citation activities** (too many e-mail notifications from ResearchGate, however)
- **Usage reports and charts**
- **Free**
- Closed system – some **protection for the faculty's works**
- **Social network and collaborative** functions (ResearchGate)
- **Citation linkage** (Google Scholar and ResearchGate)

CONS

- English-language dominant
- Incomplete data and/or publications
- May or may not be updated by the researchers over time

Further Analysis with Additional Data

- ✓ **Tenure or non-tenure factor** for publications
- ✓ Search for AUC faculty in **other systems**, such as ORCID, SCOPUS, arXiv, for example
- ✓ **Metadata** used for each system (Heller, 2015)
- ✓ **Name variants**

- ✓ **Types of publications**, research products (e.g., patents) and creative works
- ✓ **Places and languages of publication**
- ✓ **Types of disciplines vs. platforms used**
- ✓ **Non-Roman scripts for names** in Arabic and other languages in the publication, if available.
- ✓ Implication for the [AMICAL Consortium](#).

Conclusion

Researchers in the 21st Century tend to have scattered identities and publication profiles; at their local institutions and other professional and self-registered services.

The challenge, as we go toward the Linked Data model, is how to maintain multiple identities per each researcher, to cross link the data and to provide perpetual access to the i.d. systems for all AUC faculty; not only for the accomplished writers and/or creators.

References (1)

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Credits

- ❖ Cover image: [social network](#)
- ❖ Places & spaces: <http://scimaps.org/home.html>
- ❖ Garfield's historiograph (Garfield, 2004, p. 132)
- ❖ SWIB14: <http://swib.org/swib14/>
- ❖ Linked Open Data Cloud: <http://datahub.io/group/lodcloud>
- ❖ [Magnifying glass on a map](#)
- ❖ Adele's ISNI: [Jason Davies' Word Cloud Generator](#)
- ❖ Data logging and editorial assistance: Ernie Roberts, my husband.

Thank YOU
Danke schön

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