



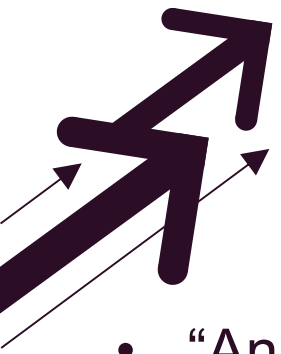
# **Managing All Research Information in an IR**

David T Palmer  
The University of Hong Kong (HKU)  
Seminar Kebangsaan Sumber Elektronik Di Malaysia



**Institutional Repository (IR)**

Definition



## → **IR: What is it?**

- “An **institutional repository** is an online locus for collecting, preserving, and disseminating - in digital form - the intellectual output of an institution, particularly a research institution” -- Wikipedia (November 2012)
- Academic Institution: journal articles, theses, learning objects
  - → Publications
- Why?
  - Provide Open Access
  - Create global visibility
  - Collect content in a single location



**Current Research Information System  
(CRIS)  
a.k.a. Research Information  
Management System (RIMS)**

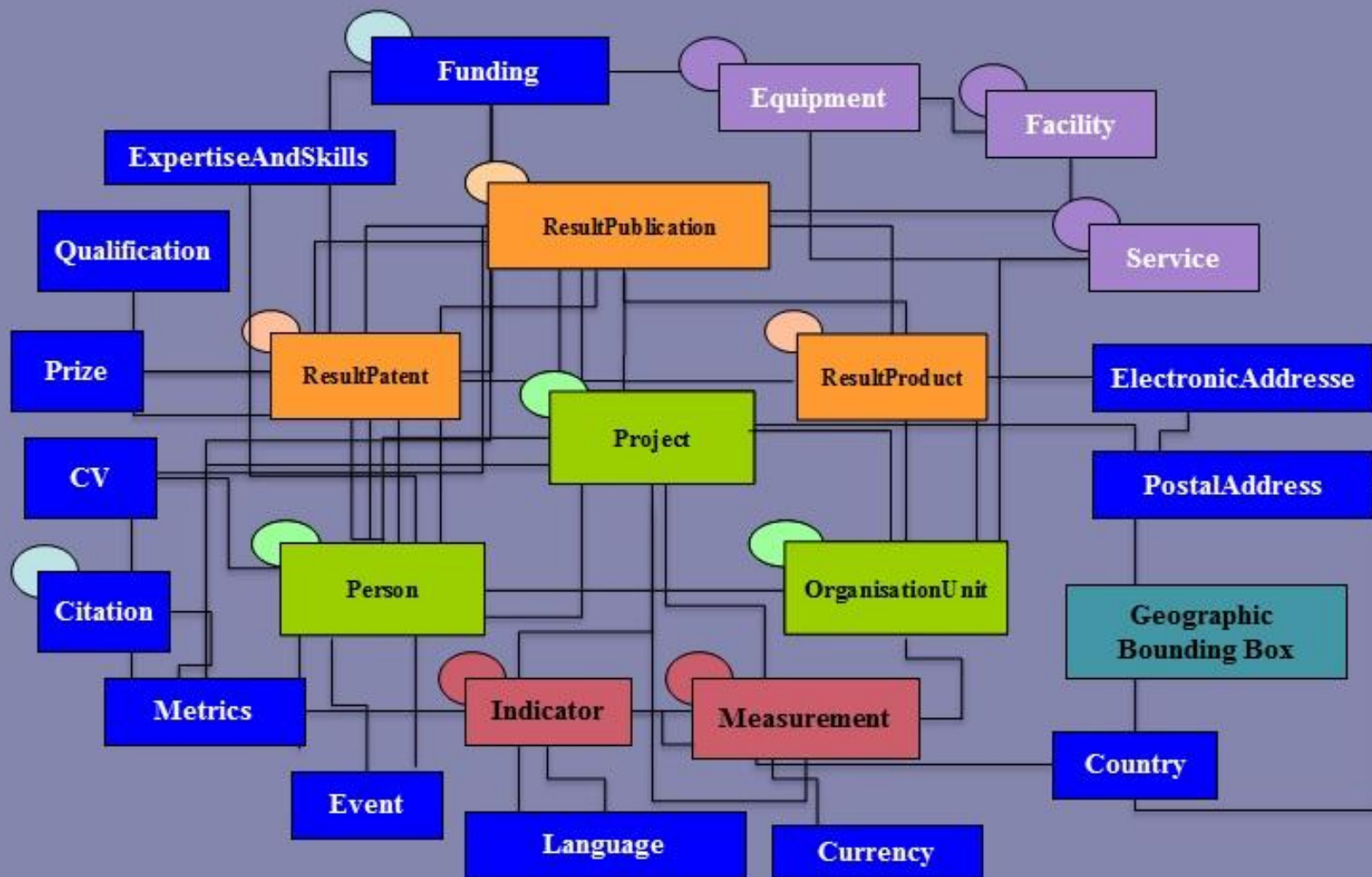
Definition



## → **CRIS: What is it?**

- “A Current Research Information System, commonly known as "CRIS", is any information tool dedicated to provide access to and disseminate research information, such as People, Projects, Organizations, Results (publications, patents and products), Facilities, and Equipment.” – “EuroCRIS”, Wikipedia (Nov 2012)
- for researchers: easy access to relevant information
- for research managers and administrators: easy measurement and analysis of research activity
- for research councils: optimisation of the funding process
- for entrepreneurs and technology transfer organizations: easy retrieval of novel ideas and technology in a knowledge-assisted environment and easy identification of competitors and previously done similar research
- for the media and public: easy access to information, software and computer power to allow easily-assimilated presentation of research results in appropriate contexts.

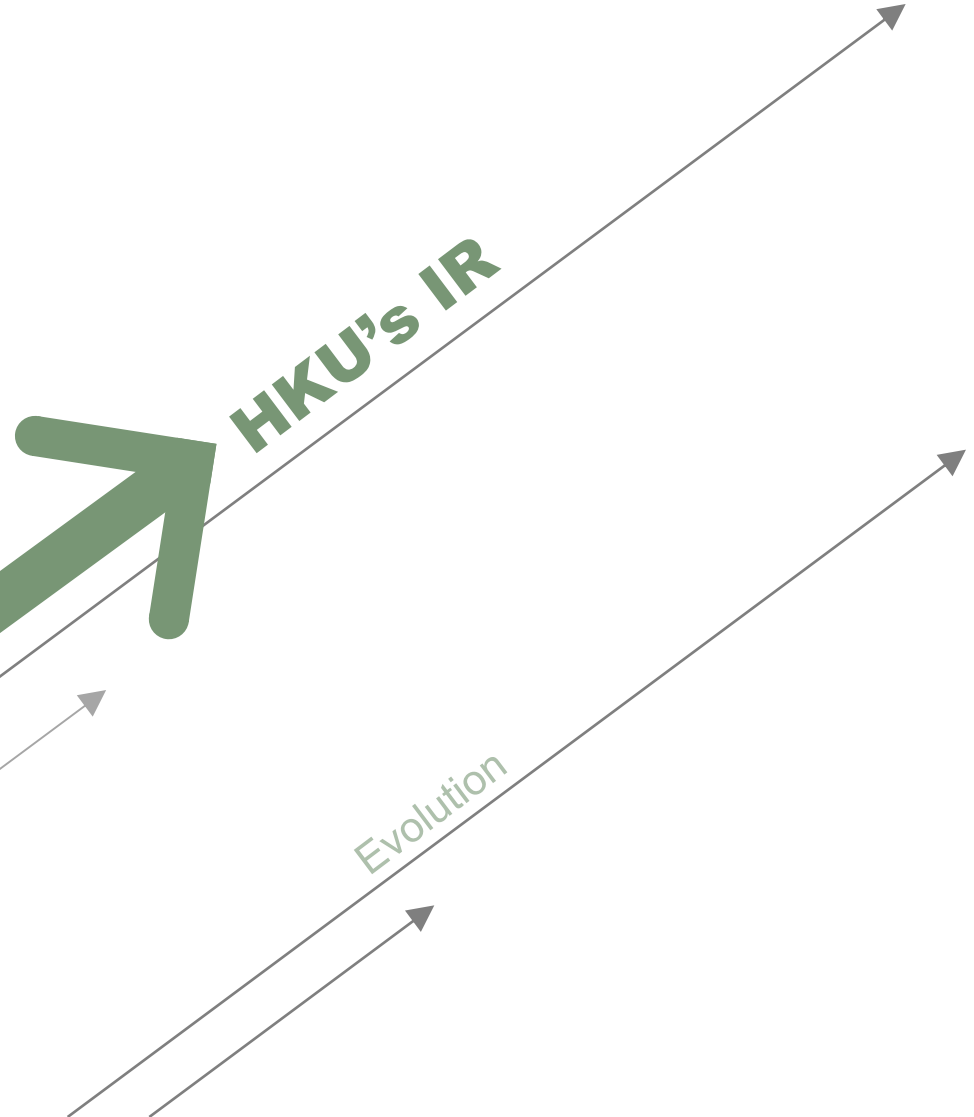
# CERIF 1.3 Entities (Types in Colors)





## → **CRIS flavours**

- Internal only?
  - Research support
- Public also?
  
- Built in one integrated whole?
- Distributed, with APIs calling on-the-fly, other databases







## → The HKU Scholars Hub

- 2005 begun,
  - Publications
  - Open Access
- Not compelling with faculty
- 2009 “Knowledge Exchange”
  - New funding, from HKU KEO
  - New interest, from faculty
- An exchange of research and skills between HKU and its community for mutual benefits
- A database or exchange hub to enable, facilitate and measure HKU’s KE





The HKU Scholars Hub is the institutional repository of The University of Hong Kong. As a key vehicle of HKU's [Knowledge Exchange Initiative](#), The Hub strives to make HKU authors and their research very visible, with the goal of increasing all forms of collaboration.

Do you want to see your publications in the Hub?

Please CONTACT US

## QUICK SEARCH OF THE HUB

Search the author, title, abstract and series fields.



## FEATURED SCHOLAR



**Dr Hau, TD**

· Associate Professor

*Research Interests:*

- Transportation economics
- Public finance

+ MORE

## HUB NEWS

**Jun 2012:** HKU Knowledge Exchange Non-Academic Prize awarded to [David Palmer](#) and the Hub Team, for their success in making HKU research and scholars highly visible. Go Team! >

**Apr 2012:** DOI numbers added to each of the 19,750 HKU theses. Increased discovery and statistics. >

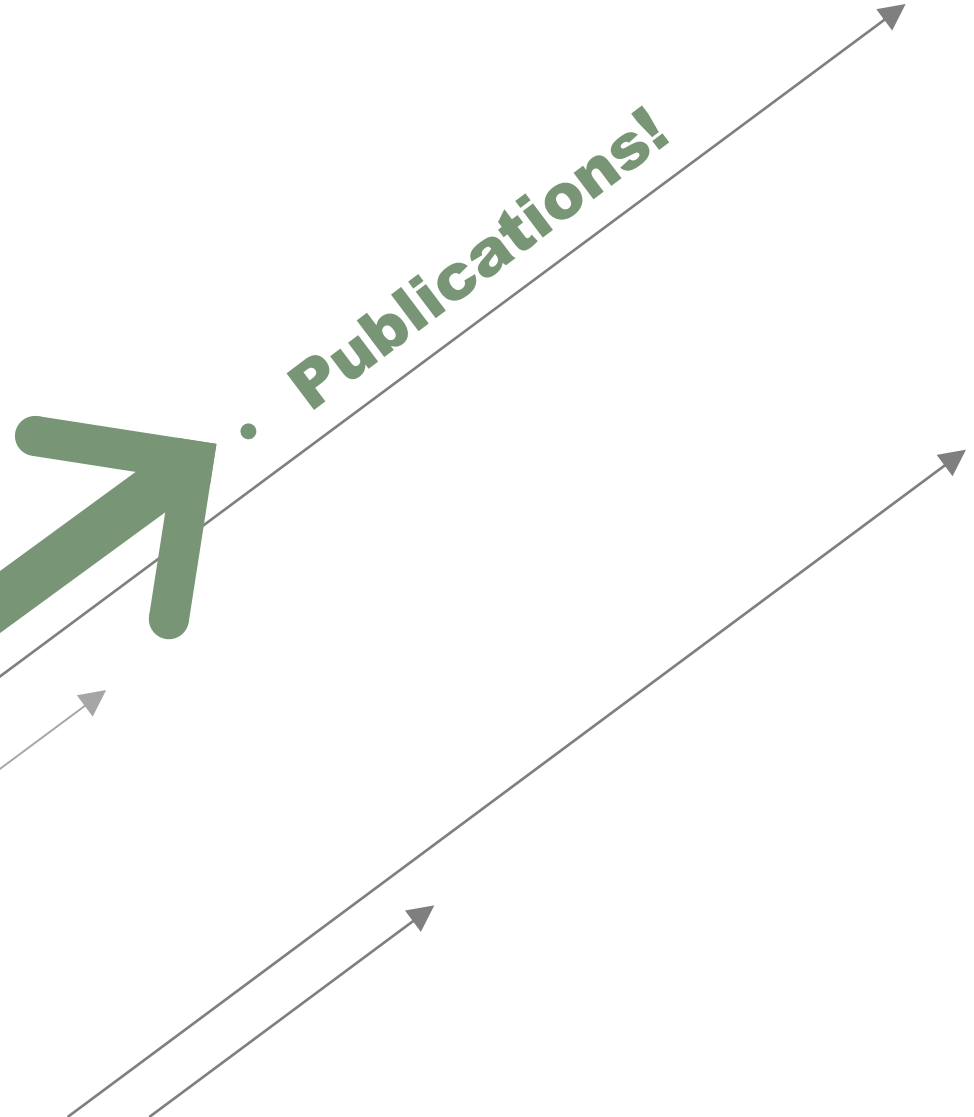
**Feb 2012:** New design and software for the Hub. >

## RELEVANT LINKS

- [HKU's Top 1%](#)
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- [HKU research on Web of Science](#)
- [HKU Research & Scholarship](#)
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• **Publications!**





# Article: 360-deg profilometry: new techniques for display and acquisition

**File Download**

2133.pdf

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**Publisher Website:**  
10.1117/12.176507

**Scopus:** eid\_2-s2.0-0028493516

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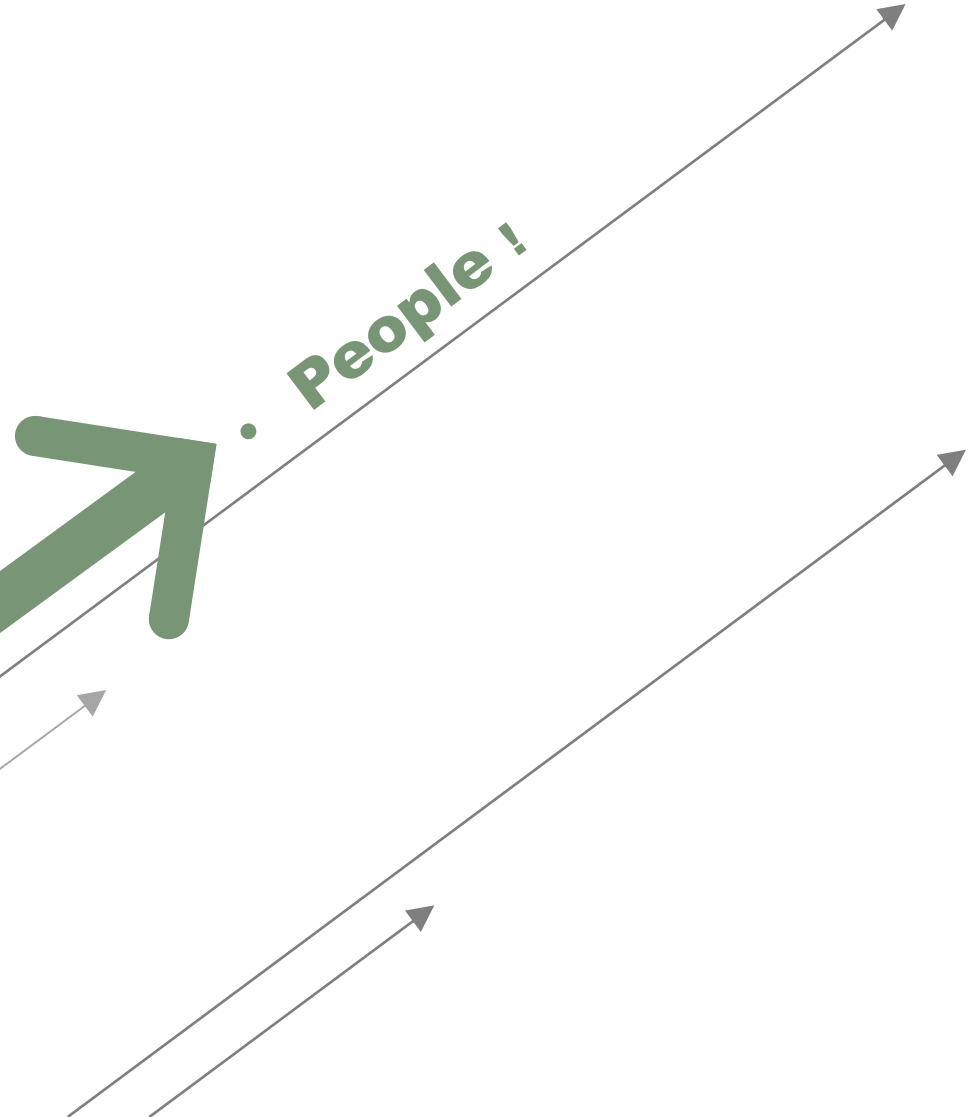
**Supplementary**

- Citations:**
  - Scopus: 16
  - Web of Science: 19 [Related Records](#)
- Item Statistics (The Hub)
- Appears in Collections:**
  - Mechanical Engineering: Journal/Magazine Articles

Basic View	Metadata View	XML View
<b>Title</b> 360-deg profilometry: new techniques for display and acquisition		
<b>Authors</b> Asundi, A Chan, CS Sajan, MR		
<b>Keywords</b> Profilometry Logical moire Phase shifting Scanning moire structured light Projected gratings		
<b>Issue Date</b> 1994		
<b>Publisher</b> S P I E - International Society for Optical Engineering. The Journal's web site is located at <a href="http://www.spie.org/oe">http://www.spie.org/oe</a>		
<b>Citation</b> Optical Engineering, 1994, v. 33 n. 8, p. 2760-2769 <a href="#">[How to Cite?]</a> DOI: <a href="http://dx.doi.org/10.1117/12.176507">http://dx.doi.org/10.1117/12.176507</a>		
<b>Abstract</b> Two optical methods are proposed for shape measurement and defect detection of curved surfaces in the form of a complete 360- deg profile of the object. The first one is the standard structured light approach. Display of the resulting data is the emphasis of this section. The second approach uses modulated structured light with a scanning digital camera for faster and simpler data acquisition. Quantitative processing is done off-line while real-time moire produces enhanced display of the defects for qualitative analysis.		
<b>ISSN</b> 0091-3286 2011 Impact Factor: 0.959 2011 SCImago Journal Rankings: 0.089		



• People !



Owner	Database	Data
HKU Registry	Communications Directory	Name, email, office, title
-- ditto	Research Output System (ROS)	Publications Data
-- ditto	-- ditto	Awards, honours, prizes
HKU Registry, Research Services	Research Committee Grants Application System	Grant, PI, Co-I, panel, keywords, funding, etc.
HKU Graduate School	Postgraduate student supervision DB	Supervised students, thesis title, date, etc.
Faculty, Department pages	Staff profiles	Research interests, picture, etc.
HKU Communications & Public Affairs (CPAO)	Media Contact Directory	Expertise, languages spoken & written
-- ditto	Community Service DB	Editorships, miscellaneous
HKU Tech Transfer Office		Patent data



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# HKU ResearcherPage: To, KS

## Profile

[Contact Information](#)

## Publications

- Articles (4)
- Conf. Papers & Presentations (8)
- Books & Book Chapters (1)
- Postgraduate Theses (1)
- Undergraduate Theses (1)

## Achievements

- Media Contact Directory (7)
- Community Service (9)
- Honours, Awards & Prizes (4)
- Supervision of Research Postgraduate Students (3)
- HKU Committee Appointments (2)

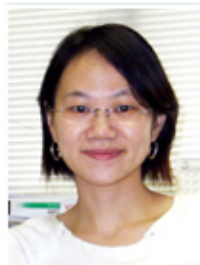
## Grants

- Principal Investigator (6)

## Bibliometrics

- External Metrics
- Internal Metrics

### HKU Researcher



**Dr To, Kit Sum**

杜潔森

- Assistant Professor

#### Research Interests:

- Later language development
- Development of language tests
- Phonological development and disorders in Cantonese speaking children

#### My URLs:

- [Personal Page](#)

#### Also Cited As:

- To, Carol
- To, Kit-sum, Carol

**Tel:** 2859 0591

**Office:** PP 5/F

**Dept:** Edu Fac-Speech & Hearing Sci Division

**Faculty:** Faculty of Education

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## HKU ResearcherPage: Solomon, JD

[Profile](#)

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[Achievements](#)

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[Honours, Awards & Prizes \(10\)](#)

[Supervision of Research Postgraduate Students \(3\)](#)

[HKU Committee Appointments \(8\)](#)

[Grants](#)

[Principal Investigator \(9\)](#)

[Bibliometrics](#)

[External Metrics](#)

[Internal Metrics](#)



### Mr Solomon, Jonathan Daniel

- Acting Head, Dept of Architecture
- Assistant Professor

#### Honours, Awards & Prizes

Date	With	Honours / Awards / Prizes	Category
01-05-2010		<b>Appointed co-Curator, U.S. Pavilion at the Venice Architecture Biennale 2010:</b> Department of State, United States of America	Others
01-03-2010	<a href="#">Pryor, MR</a>	<b>3rd Prize, New Links, New Kwun Tong Design Ideas Competition:</b> The Development Bureau, Urban Renewal Authority, Civil Engineering and Development Department of the Hong Kong Special Administrative Region	Research Achievement
01-08-2009		<b>Citation Award:</b> American Institute of Architects Northwest & Pacific Region	Research Achievement
01-05-2009		<b>Merit Award, Open International Ideas Competition for Noise Barrier/Enclosure Design:</b> Highways Department HKSAR, Environmental Protection Department HKSAR, The Government of the Hong Kong Special Administrative Region, The Hong Kong Institute of Architects, The Hong Kong Institution of Engineers, The Hong Kong Institution of Highways and Transportation, The Hong	Research Achievement





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# HKU ResearcherPage: Tsui, ABM

## Profile

## Publications

- Articles (35)
- Conf. Papers & Presentations (28)
- Books & Book Chapters (46)
- Others (1)

## Achievements

- Media Contact Directory (9)
- Supervision of Research Postgraduate Students (19)
- HKU Committee Appointments (45)

## Grants

- Principal Investigator (22)
- Co-Investigator (4)

## Bibliometrics

- External Metrics
- Internal Metrics



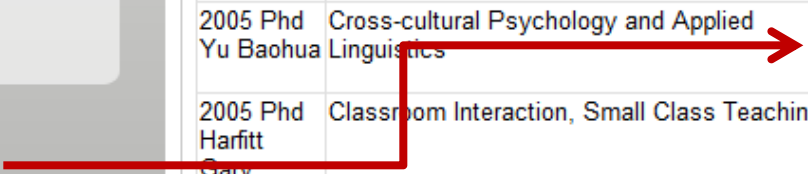
## Professor Tsui, Amy Bik May

徐碧美

- Pro-Vice-Chancellor and Vice-President (Teaching and Learning)
- Chair of Language and Education

## Supervision of Research Postgraduate Students

Admission	Field of Study	Thesis Title
2009 Phd Rong Xiaoyan	English Teacher Education	
2008 Phd Imafuku Rintaro	Sociolinguistics, Discourse Analysis, Problem-based Learning Curriculum	
2005 Phd Yu Baohua	Cross-cultural Psychology and Applied Linguistics	<a href="#">Cross-cultural adaptation and second language acquisition : a study of international students in universities of the People's Republic of China</a>
2005 Phd Harfitt Gary James	Classroom Interaction, Small Class Teaching	<a href="#">How class size mediates student learning : case studies of Hong Kong secondary schools</a>



## Profile

## Publications

- Articles (118)
- Conf. Papers & Presentations (37)
- Books & Book Chapters (25)
- Others (11)

## Achievements

- Media Contact Directory (6)
- Community Service (13)
- Honours, Awards & Prizes (4)
- Supervision of Research Postgraduate Students (27)
- HKU Committee Appointments (4)

## Grants

- Principal Investigator (22)
- Co-Investigator (2)

## Bibliometrics

- External Metrics
- Internal Metrics



**Dr Ching, Wai Ki**   
程瑋琪

## External Metrics

### Scopus (1996 ~ )

<b>AuthorID:</b>	13310265500
<b>Document Count:</b>	139
<b>Total Citations:</b>	561 total citations by 407 documents
<b>h Index:</b>	13
<b>Co-authors:</b>	125

### ResearcherID

<b>RID:</b>	D-306
<b>Document Count:</b>	88
<b>Times Cited:</b>	167
<b>h Index:</b>	8
<b>Co-authors:</b>	Collab

### MathSciNet

<b>AuthorID:</b>	605850
<b>Earliest Indexed:</b>	1996
<b>Publications:</b>	75
<b>Citations:</b>	86
<b>Co-Authors:</b>	50

### PubMed

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<b>Hub items with PMC ID:</b>	
<b>Citation count of Hub items in F</b>	
<b>Hub items cited in PMC:</b>	



# External Sources

Company	Database
Elsevier	Scopus
-- ditto	BiomedExperts
Thomson Reuters	ResearcherID Web of Science
RePEc	
SSRN	
ACM Digital Library	
NIH	PubMed
Google	Google Scholar Citations
Microsoft	MS Academic Search
MathSciNet	

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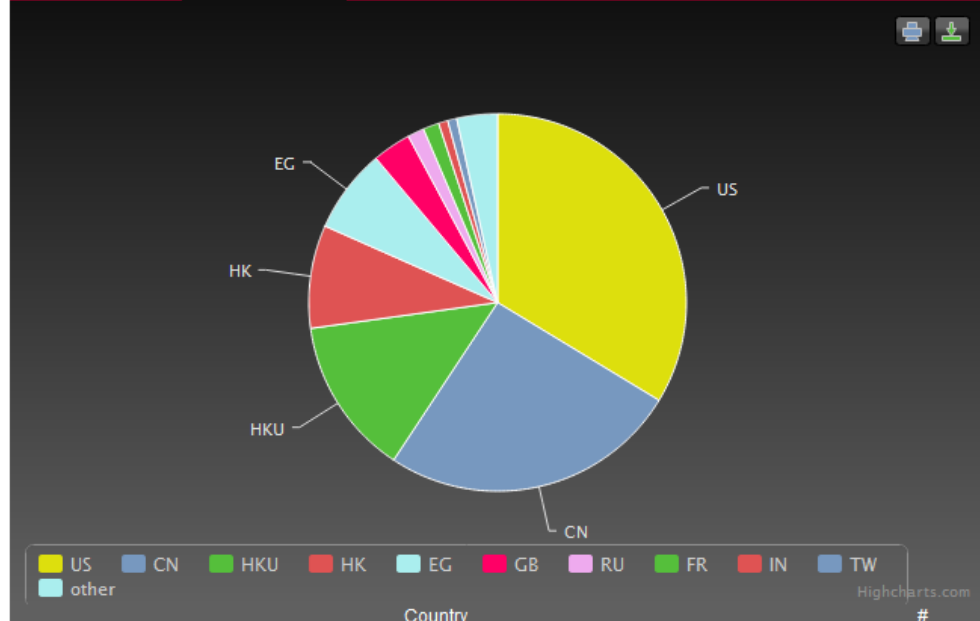
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GB - United Kingdom	63
RU - Russian Federation	27
FR - France	26
IN - India	15
TW - Taiwan	15

▶▶ ResearcherPage View Count

Item View Count

Item Download Count

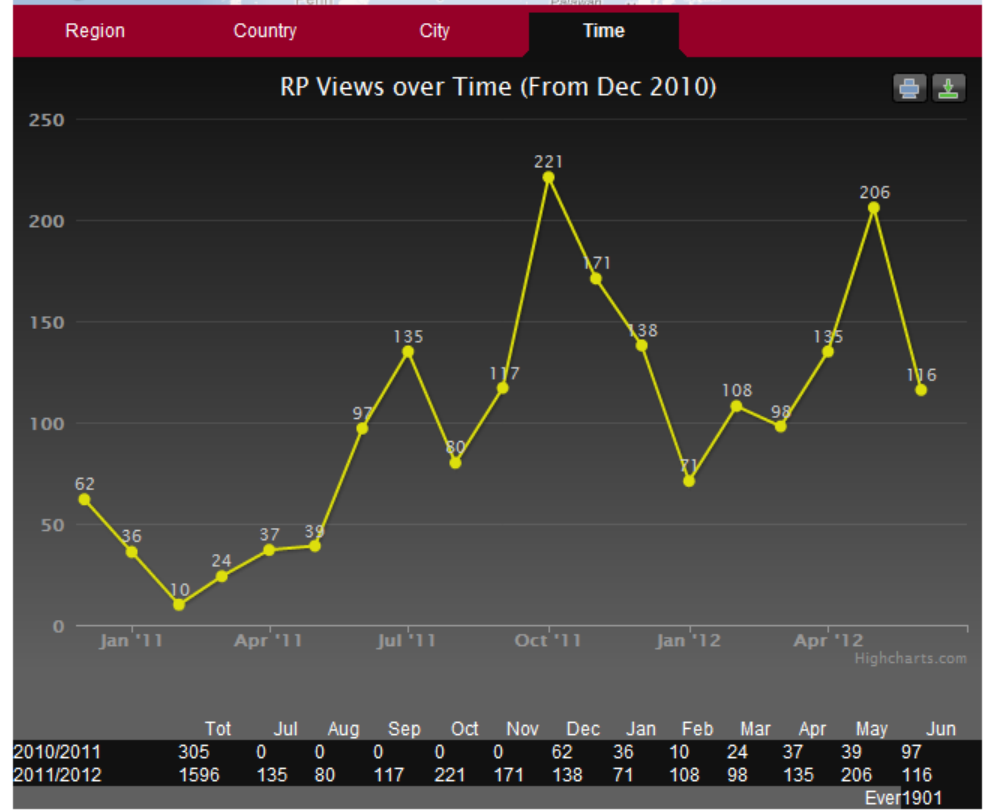
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- Monthly


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• **Theses & Dissertations!**



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[10.5353/th\\_b4569256](http://10.5353/th_b4569256)**Supplementary**

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- **Appears in Collections:**
  - [HKU Theses Online](#)
  - [Geography: Theses](#)

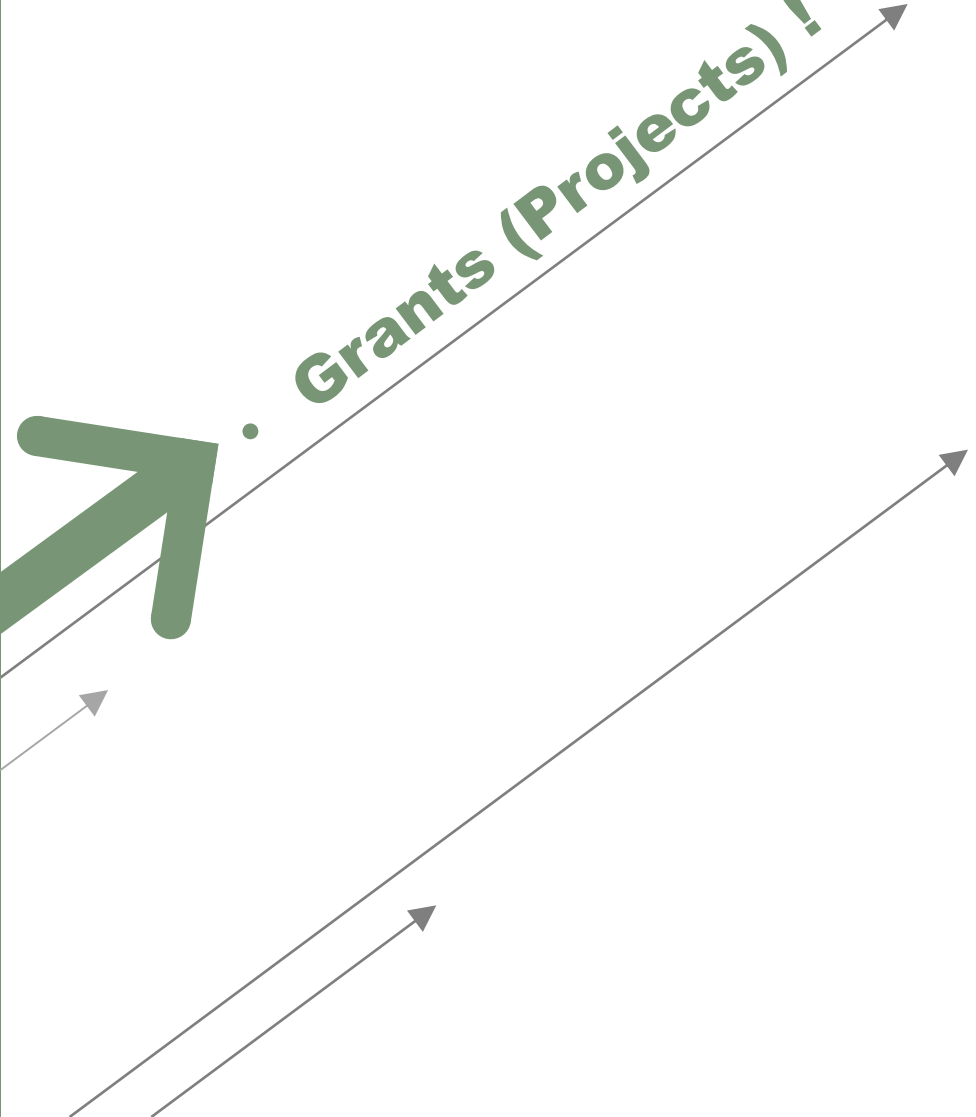
Basic View | **Metadata View** | XML View**Title** Quantifying the urban heat island (UHI) intensity in Hong Kong**Authors** [Siu, Leong-wai](#)  
[蕭亮輝](#)**Issue Date** 2011**Publisher** University of Hong Kong (Pokfulam Road, Hong Kong)

**Abstract** The definition and quantification of urban heat island (UHI), the air temperature differences between urban and rural areas, remains problematic. This is due, in large part, to the difficulty of operationalizing the terms "urban" and "rural", especially with regard to classifying the weather stations that provide data. This thesis studies the urban heat island (UHI) intensity in Hong Kong and there are three foci in the research. The first focus of this study is the determination of the urban and rural weather stations in Hong Kong. The Local Climate Zones (LCZ) system has been employed to classify 17 weather stations and field observation was the main technique to collect the necessary metadata. Six field trips were arranged in the summer of 2009 and 2010. Hong Kong Observatory Headquarters (HKO) is considered as the only representative urban station, whilst Tsak Yue Wu station (TYW) is deemed as the representative rural station because of its Forest Zone (NCZ1) classification. Ta Kwu Ling station (TKL) is another reference rural site. The second focus is the quantification of the UHI intensities at six pairs of stations in Hong Kong and their diurnal and seasonal variations. The 19-year annual UHI intensities in Hong Kong suggest that the representative rural sites (TYW and TKL) also record representative UHI intensities for the region. The differences of the cooling rate at urban and rural stations drive the diurnal cycle of urban heat island. The seasonal variations of UHI intensities are also driven by the cooling rate differences of urban and rural stations in different seasons. Since the mean maximum urban cooling rate does not vary considerably throughout the seasons (0.4 – 0.5 °C/hr), it is the alteration of the rural cooling rate (1.0 – 1.6 °C/hr at TYW; 0.9 – 1.2 °C/hr at TKL) which determines the seasonal variations of UHI intensities. The mean daily maximum UHI intensities in Hong Kong are greatest in winter. The final focus is the meteorological impacts on the UHI intensity in Hong Kong. Five meteorological elements, including air temperature, wind speed, vapour pressure, cloud cover, and cooling rate, have been separately investigated to establish their impacts on the UHI intensity. Under fine weather conditions, the first four elements are negatively related to the UHI intensity. Sixteen regression models were built after the use of stepwise procedures which optimize the combination of independent variables. Rural air temperature is considered the most important meteorological factor on the UHI intensity. The models also suggest that there are other factors affecting the UHI intensities in spring and summer.

**Advisors** [Peart, MR](#) ❖  
[Hart, MA](#) ❖**Degree** Master of Philosophy**Subject** Urban heat island - China - Hong Kong.  
Urban temperature - China - Hong Kong.**Dept/Program** Geography**DOI** [http://dx.doi.org/10.5353/th\\_b4569256](http://dx.doi.org/10.5353/th_b4569256)**HKU Library Item ID** [b4569256](#)



• Grants (Projects)!







## Grant: Reinforced concrete coupling beams with embedded steel plate

### General Research Fund (GRF)

- Application
- Eligibility
- Types of Research

#### Academic Research

- i. Basic research - research for the sake of advancing the frontiers of knowledge regardless of whether it would provide immediate benefit to mankind; and
- ii. Applied research - efforts directed at meeting certain functional requirements which involve the application of theories to specific areas or for specific purpose, and/or enhance man's existence in the short to medium term.

#### Contact Research

Efforts which would lead to the delivery of a product or process and could involve both basic and applied research, though the latter is much more prevalent. Contract research is client-specific and is generally sponsored and financed by the client who can be either a private company or a public body or the Government.

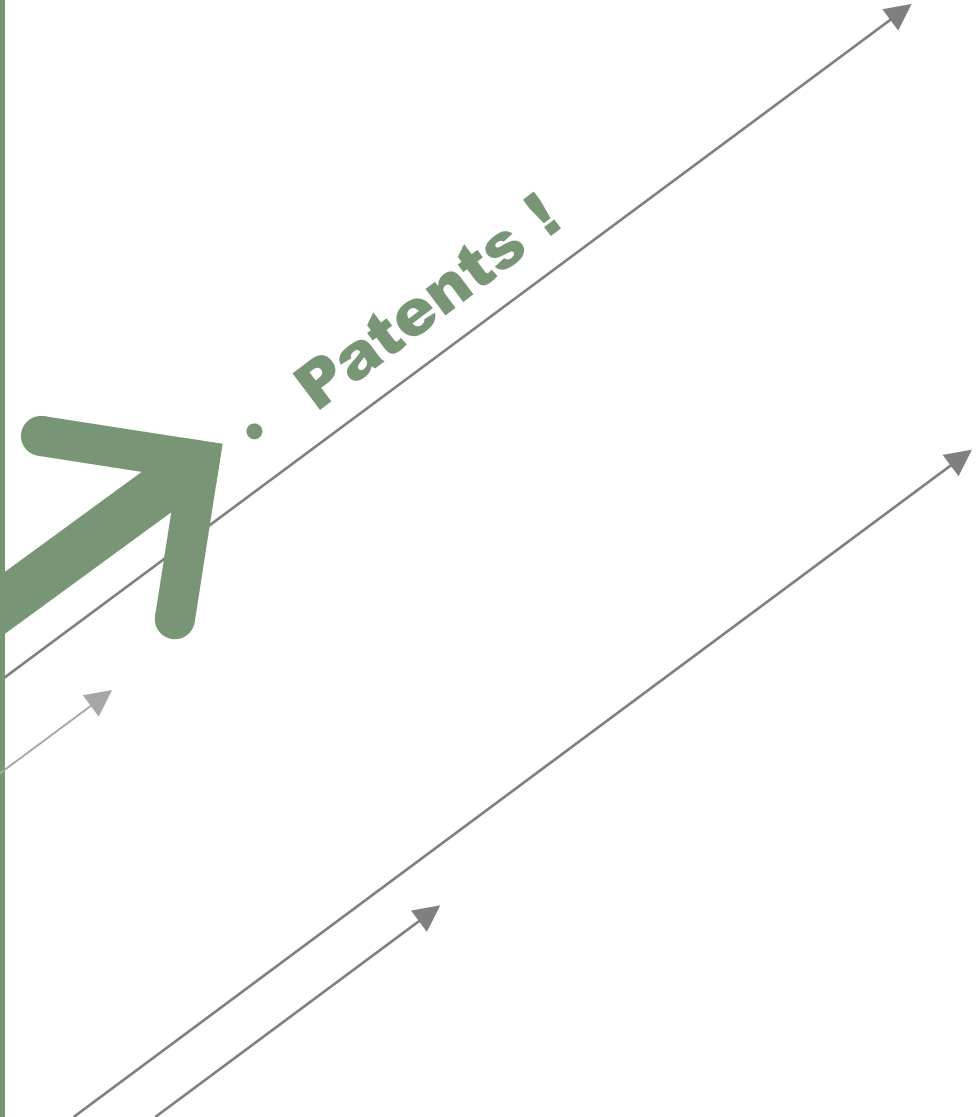
#### Criteria for Consideration of Competitive Bids

Basic View	XML View
Project Title	Reinforced concrete coupling beams with embedded steel plate
Principal Investigator	Su, Kai Leung ❖
Co-Investigator(s)	Pam, Hoat Joen ❖
Funding Year	2003/2004
Amount	25000
Start Date	01-10-2003
Expected Completion	30-09-2005
Status	On-going
Sponsor	RGC Projects (Block Grant)
Grant Type/Funding Scheme	Merit Award for RGC GRF Funded Projects
Duration	24
Objectives	N/A
Publication	Effects of shear connectors on plate-reinforced composite coupling beams of short and medium-length spans
Publication	A survey on axial load ratios of structural walls in medium-rise residential buildings in Hong Kong
Publication	Seismic behaviour of slender reinforced concrete shear walls under high axial load ratio
Publication	Experimental study on embedded steel plate composite coupling beams
Publication	A brief summary of parametric study of plate-reinforced composite coupling beams
Publication	Strengthening of reinforced concrete coupling beams by bolted steel plates
Publication	The effects of shear connectors on plate-reinforced composite coupling beams





• Patents !





# → Patent Sources

Country	Source
US	USPTO Derwent
World	Patent Lens Patentscope Espacenet
US (Chemistry)	SciFinder
EU	European Patent Office
Japan	Japan Patent Office
China	SIPO (State Intellectual Property office of the PRC)



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Theses (HKUTO)

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Patents

繁 · 簡

## Granted Patent: Luminescent Gold (iii) Compounds, Their Preparation, And Light-emitting Devices Containing Same

### File Download

 Chm200400181US.htm

### Patent History

<b>Application</b>	US 10/977,200 2004-10-29
<b>Publication</b>	US 20060091378 2006-05-04
<b>Granted</b>	US 7572912 2009-08-11

### Patent Family

<b>WO 2006045235</b>	2006-05-04
<b>CN 10109098946</b>	2008-01-02
<b>US 20090278453</b>	2009-11-12


### Supplementary

- [Item Statistics \(The Hub\)](#)
- **Appears in Collections:**
  - Patents
  - Chemistry: Patents

Basic View

Metadata View

XML View

<b>Title</b>	Luminescent Gold (iii) Compounds, Their Preparation, And Light-emitting Devices Containing Same
<b>Granted Patent</b>	US 7572912
<b>Granted Date</b>	2009-08-11
<b>Priority Date</b>	2004-10-29 US 2004-977200 2005-09-25 WO 2005-CN1589
<b>Inventors</b>	Yam, Vivian Wing Wah  Wong, Keith Man Chung  Kwok, Hoi-sing Zhu, Xiuling
<b>Citation</b>	US Patent 7572912. Washington, DC: US Patent and Trademark Office, 2009 <a href="#">[How to Cite?]</a>
<b>Abstract</b>	A class of luminescent gold(III) compounds with a tridentate ligand and at least one strong .sigma.-donating group having the chemical structure represented by the general formula (I): ##STR00001## wherein R.sub.1-R.sub.4 each independently represent the group containing hydrogen, halogen, alkynyl, substituted alkynyl, alkyl, substituted alkyl, aryl, substituted aryl, heteroaryl, substituted heteroaryl, alkoxy, substituted alkoxy, amino, substituted amino, cyano, nitro, alkylcarbonyl, alkoxy carbonyl, arylcarbonyl, aryloxy carbonyl, mono- or dialkylaminocarbonyl, alkylcarbonyloxy, arylcarbonyloxy, aryloxy, alkoxy carbonyl, aryloxy carbonyloxy group, and the like; X, Y and Z each independently represent a heteroatom or a carbon; ##STR00002## represents an aromatic or heterocyclic 5- or 6-membered ring; .alpha. and .beta. each independently represent a bridge for an aromatic or heterocyclic 5- or 6-membered ring or represent a break for non-cyclic moiety; C-X, C-Y and C-Z each independently represent a single bond or double bond; n represents a zero or an integer; p, q and r represent positive integers.
<b>Persistent Identifier</b>	<a href="http://hdl.handle.net/10722/142108">http://hdl.handle.net/10722/142108</a>
<b>Cites</b>	US 20030040627



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# Published Patent: Methods using Lycium barbarum extracts as neuroprotective agents for retinal ganglion cells degeneration

## File Download

121599.pdf

## Patent History

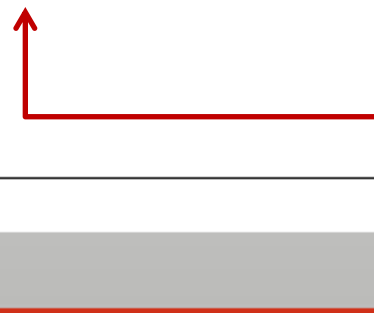
**Application** US 11/066628  
2005-02-25

**Publication** US 20050196478  
2005-09-08

## Supplementary

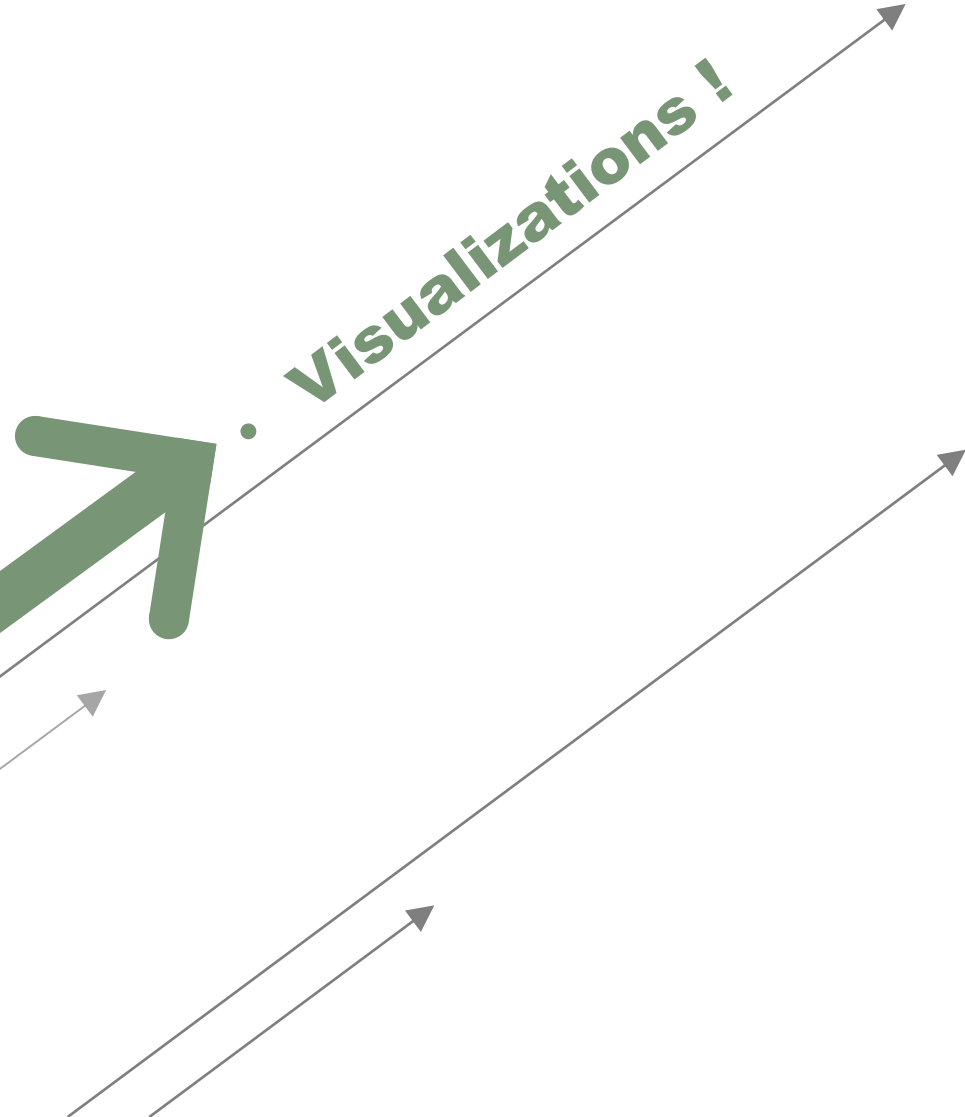
- [Item Statistics \(The Hub\)](#)
- *Appears in Collections:*
  - [Patents](#)
  - [Anatomy: Patents](#)

Basic View	Metadata View	XML View
<b>Title</b>	Methods using Lycium barbarum extracts as neuroprotective agents for retinal ganglion cells degeneration	
<b>Priority Date</b>	2005-02-25 US 11/066628	
<b>Inventors</b>	So, KF ❖ Yuen, WH Chang, RCC ❖ Zee, SY	
<b>Citation</b>	US Published patent application US 20050196478. Washington, DC: US Patent and Trademark Office (USPTO), 2005 <a href="#">[How to Cite?]</a>	
<b>Abstract</b>	An Lycium barbarum extract demonstrates a neuroprotective effect on damaged retinal ganglion cells, preventing and preserving retinal ganglion cells from degeneration in the treated subjects after chronic and traumatic neuronal injury or glaucoma. Compositions include an effective amount of an agent and a pharmaceutically acceptable vehicle.	
<b>Persistent Identifier</b>	<a href="http://hdl.handle.net/10722/45673">http://hdl.handle.net/10722/45673</a>	
<b>Publication</b>	Neuroprotective effects of anti-aging oriental medicine Lycium barbarum against b-amyloid peptide neurotoxicity	





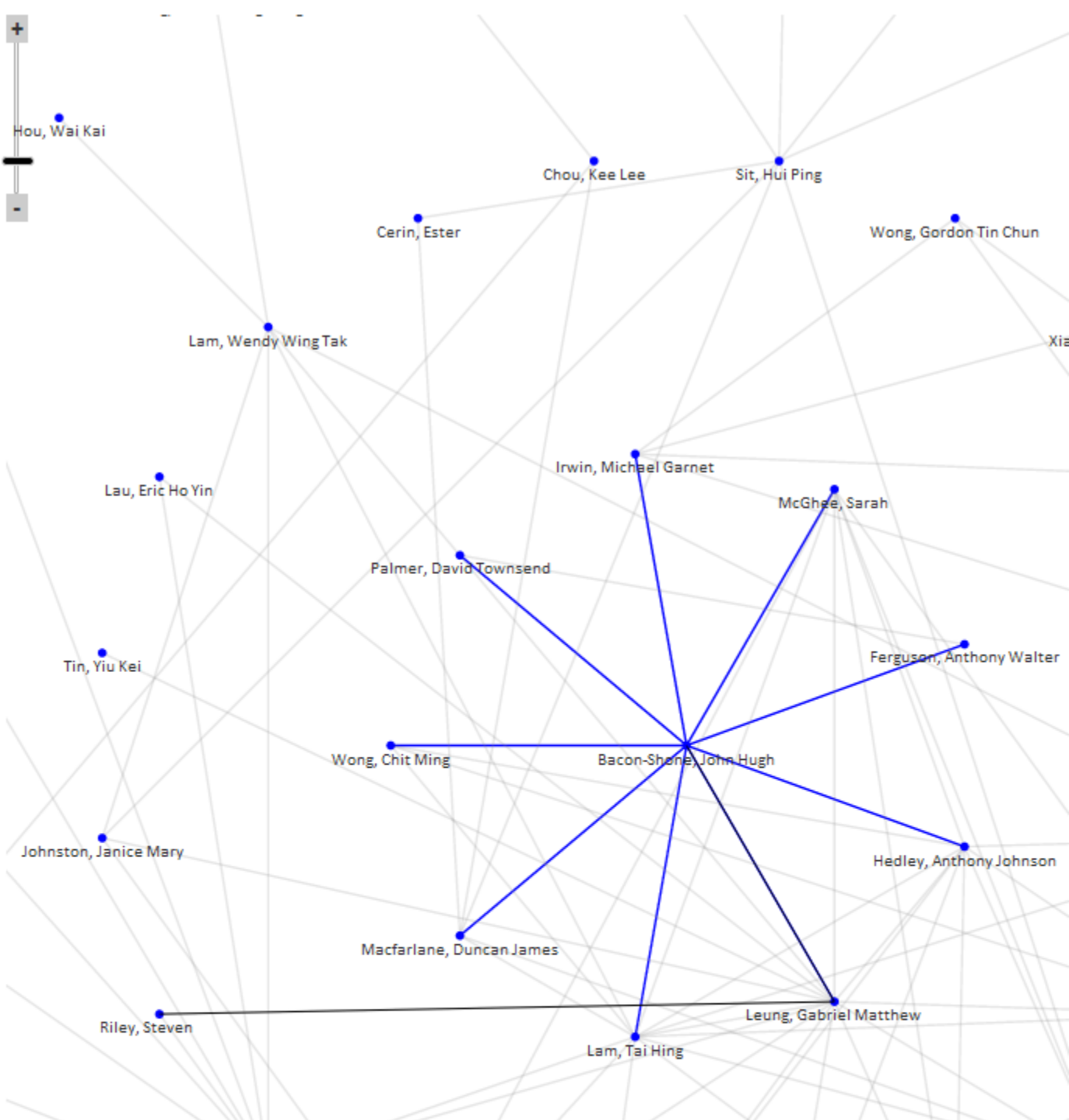
• **Visualizations!**



# HKU Researcher



**Professor Bacon-Shone,  
John Hugh**  
Associate Dean of Social  
Science  
*Dept: Social Sciences  
Research Ctr*



## Degree of Separation

Co-authors 3

Co-investigators 2

Keywords in grants 2

Keywords in publications 2

**HKU Researcher**



**Professor Bacon-Shone, John Hugh**  
 Associate Dean of Social Science  
*Dept: Social Sciences Research Ctr*

**AND**

**Cognate Researcher**



**Dr Wong, Chit Ming**  
 Associate Professor  
*Dept: Dept of Community Medicine*

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**Research Facets**

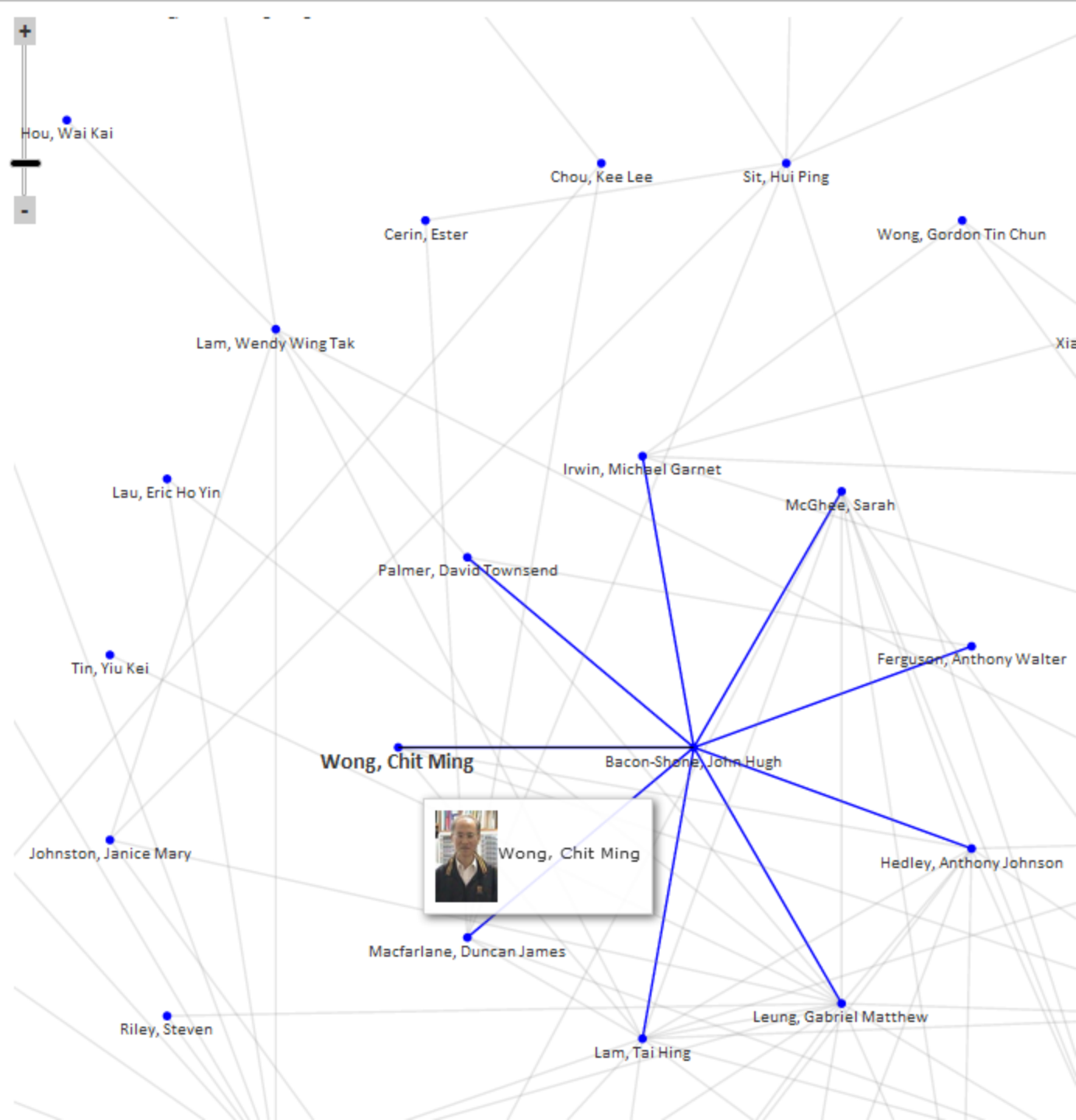
- **Keywords (grants): 2**
- **Awards: 1**
- **Publications 5**
- **Co-investigators: 6**

**Degree of Separation**

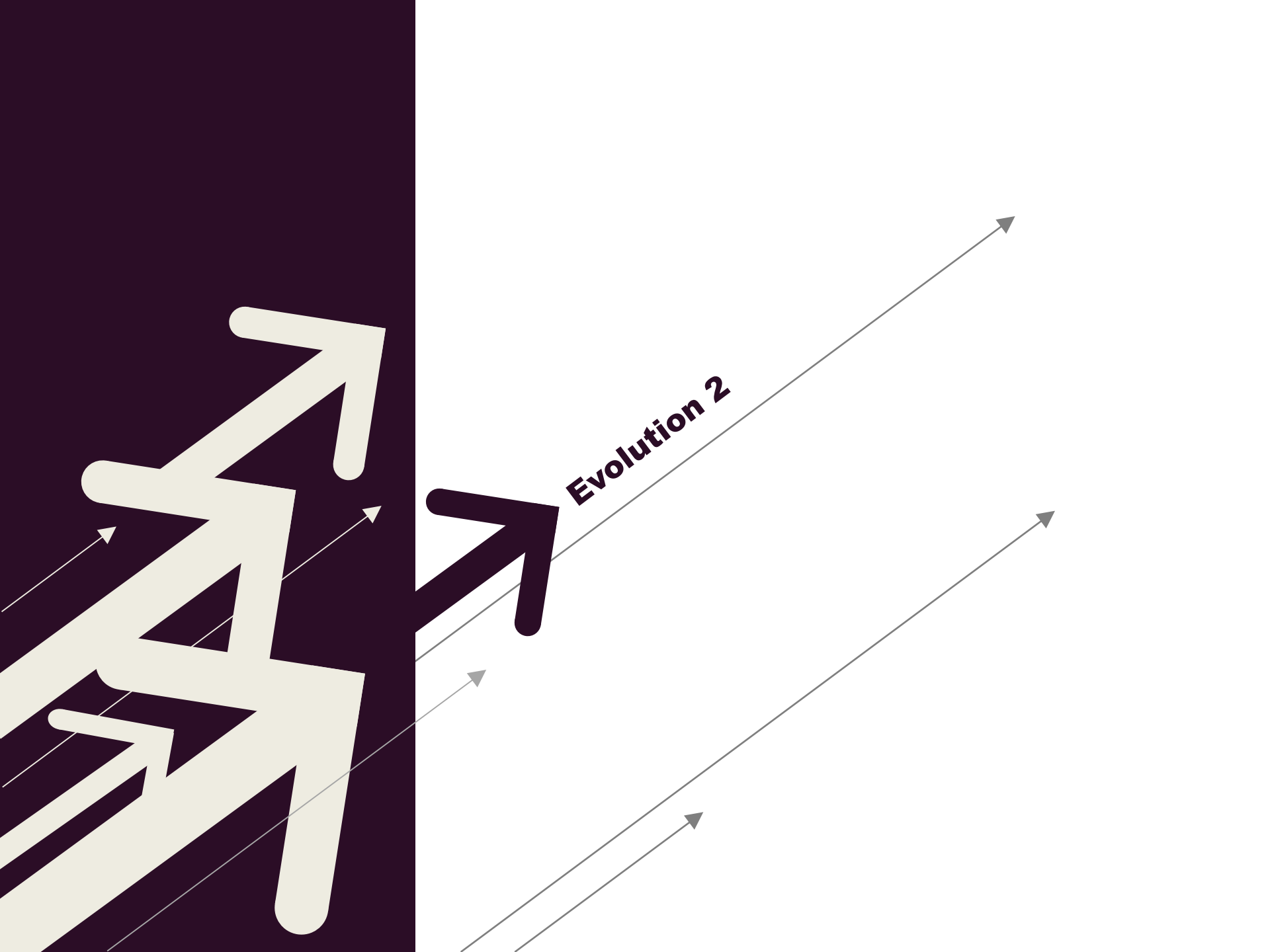
**Co-authors 3**

**Co-investigators 2**

**Keywords in grants 0**







**Evolution 2**



→ **OA** → **KE** → **CRIS**

- Other CRIS attributes:
  - Monthly stat reports to each scholar
    - Citation totals, and % of monthly increase
    - Alt metrics: number of views and downloads
  - Web service to extract any Hub data and re-use
  - Supply citation counts for HKU RAE



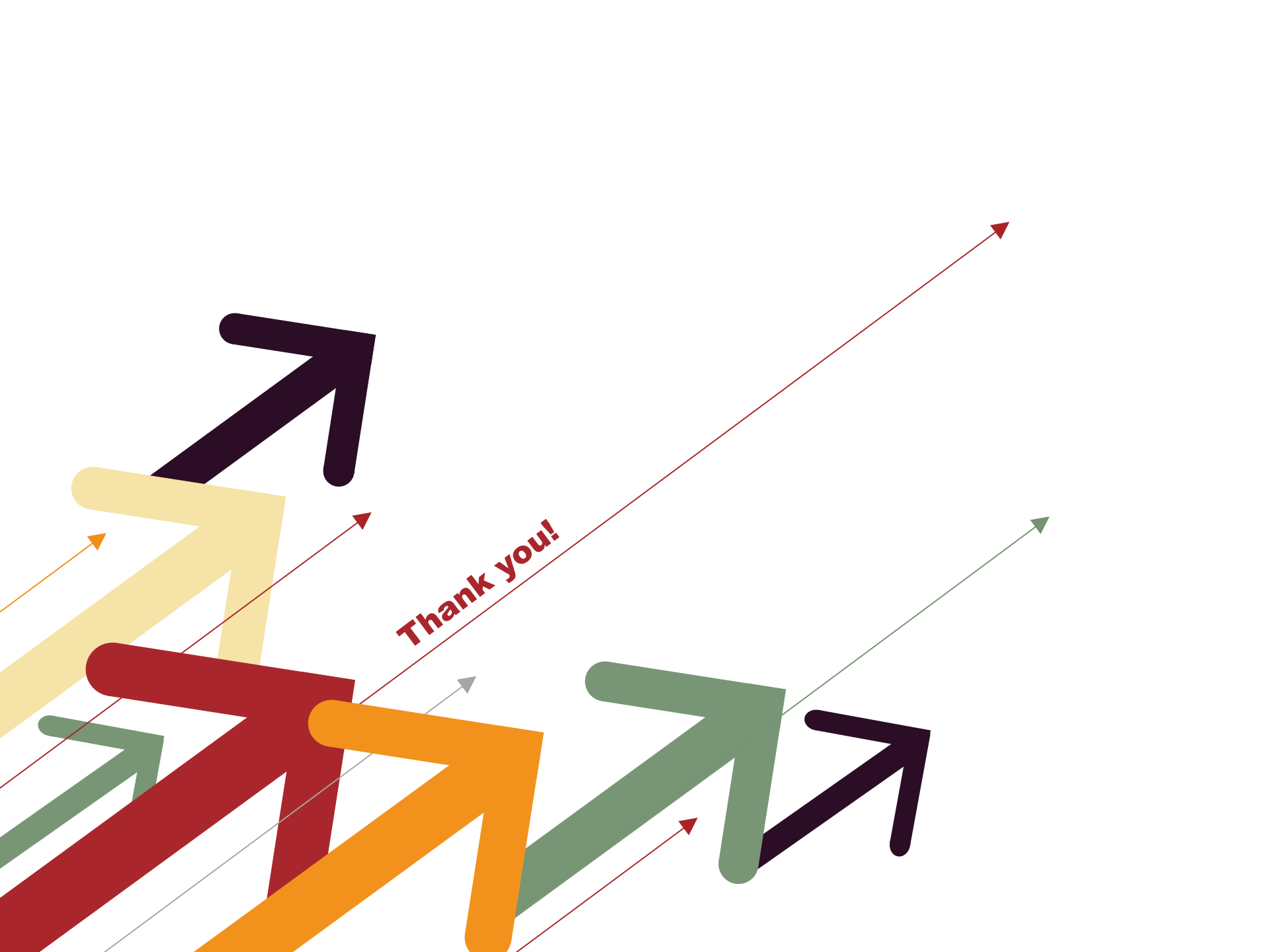
## → **Dspace - CRIS**

- Funded by HKU KEO
- All new Hub features → Dspace community
  - Rel. 3.0 and future releases
- Looking for interested collaborators & testers
  - <http://cilea.github.com/dspace-cris/index.html>

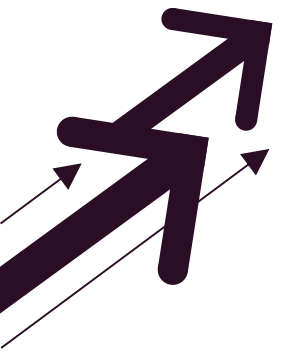


## → **Library Sponsored**

- Publications are central
- Not just bibliographic metadata
  - People
  - Projects / grants
  - Awards
  - Patents
  - Results / impact
- In the meantime,
  - Decline of print cataloguing
  - Re-purposing, re-training
  - All Hub metadata curated by the Cataloguing Dept.



**Thank you!**



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