David T Palmer
Eliot Liu
University of Hong Kong

China Open Access Week, 17 Oct 2016

# Open E-Research in the HKU Scholars Hub

# 香港大学学术库中的开放E-Research

香港大學

The University of Hong Kong

香港大學學術庫

The HKU Scholars Hub

1

# The HKU Scholars Hub – 香港大学学术库

- 2005. IR
- 2009. HKU's Knowledge Exchange (KE)
  - 3rd mission, after Research & Teaching
  - Engage with the public for mutual benefit
- Libraries' grant proposal to enlarge the Hub to be,
  - Vehicle for HKU KE
  - Make visible and highlight HKU's research & skill
- IR ➡ Current Research Information System (CRIS)

- 2005. 机构典藏
- 2009. 香港大学知识交流
  - 研究和教学之外的第三使命
  - 与公众交流以获得共同利益

- 图书馆递交提案，以发展学术库为:
  - 香港大学知识交流的工具
  - 提高香港大学科研和技能的可见度

- 机构典藏(IR)➡ 科研信息管理系统(CRIS)

# The HUB: IR ➜ CRIS
## 学术库：机构典藏 ➜ 科研信息管理系统

- IR
  - Fulltext publications
  - OA, visibility, preservation

- CRIS
  - Research Objects: publications, researchers, projects, facilities…
  - Visibility
  - Decision support
  - Optimisation of funding process
  - TechTransfer
  - Media resource

- 机构典藏
  - 著作全文
  - 开放获取、可见性、保存

- 科研信息管理系统
  - 研究物件：著作、研究员、项目、设备…
  - 可见性
  - 协助决策
  - 优化资助过程
  - 技术转移
  - 媒体资源

# *The Research Ecosystem*
# 研究生态系统



**R**esearchers 研究员

**P**ublications 著作

Articles 文章

Books 书籍

Book Chapters 书籍章节

Conference Papers 会议论文

**The Hub** 港大 学术库

组织 **O**rganizations

Citation metrics 引文指标

Supervisor 导师

Postgrad Theses 研究生论文

Grants 资助

Honours & Awards 荣誉 与奖项

Editorship 纂集

Patents 专利

香港大學
The University of Hong Kong

香港大學學術庫
The HKU Scholars Hub

4

## Institutional Repository (IR) ?

- Not just publications
- Data, projects, people, patents, etc.
  - ➔ The entire research ecosystem
  - ➔ CRIS / Research Information
    Management System (RIMS)

机构典藏 ？

- 不仅包括著作
- 数据、项目、人员、专利等
  - ➔ 整个研究生态系统
  - ➔ 科研信息管理系统（CRIS）
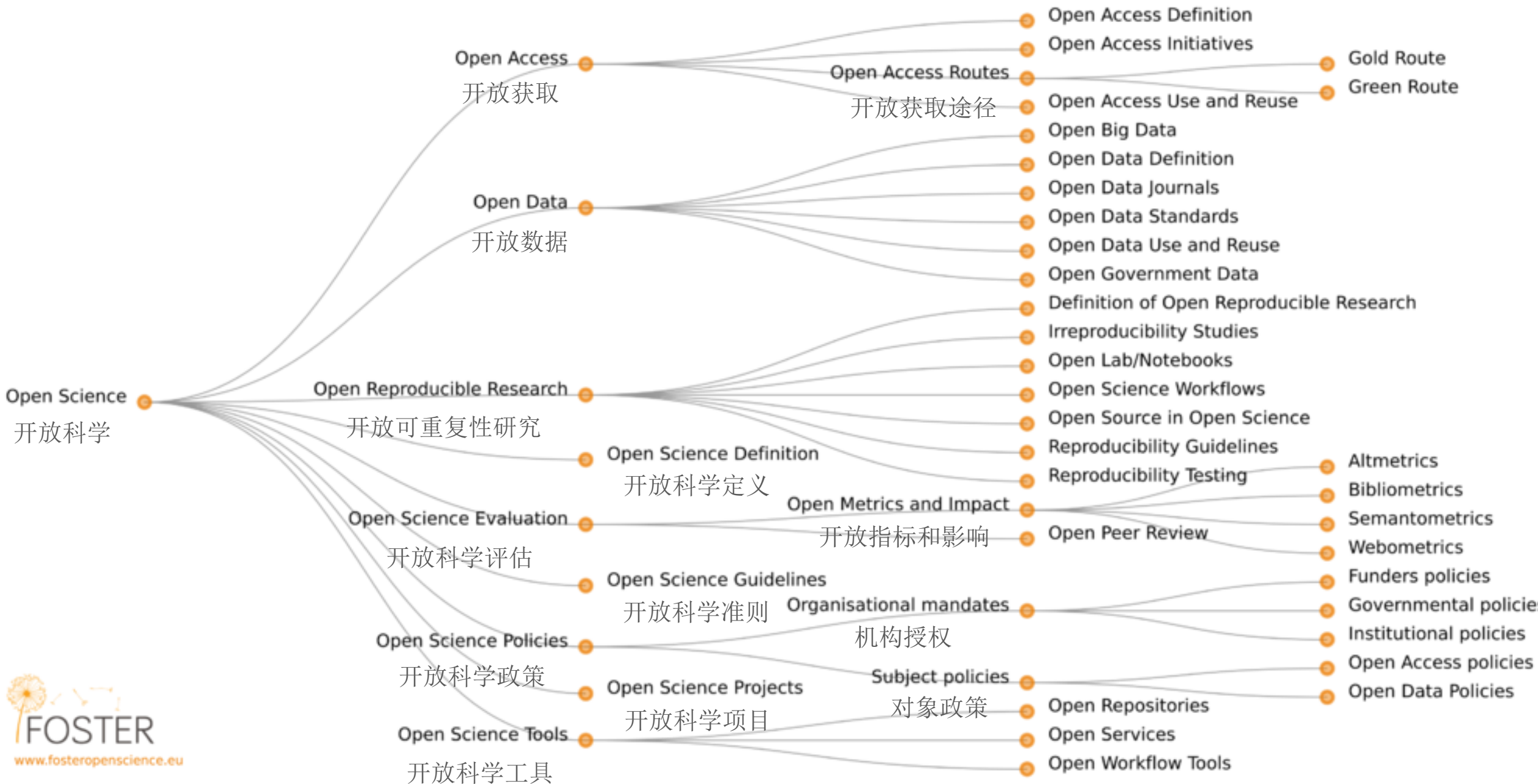    /研究信息管理系统（RIMS）

## Open Access (OA) ?

- Not just publications
- Data, projects, notebooks
  - ➔ The entire research ecosystem
  - ➔ Open Research

开放获取 ？

- 不仅包括著作
- 数据、项目、记录
  - ➔ 整个研究生态系统
  - ➔ 开放研究

# Open Science Taxonomy

**Open Research.** Open research makes clear accounts of the methodology freely available via the internet, along with any data or results extracted or derived from them. This permits a massively distributed collaboration, and one in which anyone may participate at any level of the project.

开放研究。开放研究清晰描述了可于网上自由获取的研究方法以及由此产生的数据和结果。这使得大规模分散式合作成为可能，任何人可于项目的任何阶段参与其中。

**E-Research.** The use of information technology to support existing and new forms of research. E-research extends eScience and cyberinfrastructure. Among the principle features, collaboration..

E-Research。利用信息技术支援现有的以及新的研究形式。E-Research拓展了eScience 和信息基础架构(cyberinfrastructure)，最重要的特点之一是合作…

Wikipedia: viewed October 2016

维基百科，2016年10月查询

# *HKU Underpinning Policies*
# *港大政策支持*

- Intellectual Property Rights Policy (2011)
  - http://www.rss.hku.hk/contracts/ipr
  - Terms of OA for students & staff

- Policy on the Management of Research Data and Records (2015)
  - http://www.rss.hku.hk/integrity/research-data-records-management
  - Data Management Plans, and data deposit for research students & staff

- 知识产权政策 (2011)
  - http://www.rss.hku.hk/contracts/ipr
  - 针对学生和职员的开放获取条款

- 研究数据和记录管理政策 (2015)
  - http://www.rss.hku.hk/integrity/research-data-records-management
  - 数据管理计划及研究生和学者的数据存放

首页的菜单栏显示学术库主要覆盖的研究对象：著作、研究员、组织、资助、数据集、论文、专利及社会服务

Home | Publications | **Researchers** | Organizations | Grants | Datasets | Theses | Patents | Community Service

# Leung, YMA

⊘ Collaborations ▾ | ☰ Bibliometrics ▾ | 🔔 Email Alert (for New Additions) | 🔊 RSS (for New Additions)

## Profile
▶ Contact Information
Professional Qualifications
Biography
Honours, Awards & Prizes
Professional Societies
Major Research Themes & Current
Projects

## Publications   [Export]
Selected Publications (10)
Articles (54)
Conference Papers (168)
Books (3)
Books Edited (2)
Book Chapters (2)
PG Theses (1)
Others (1)

## Datasets
Datasets

## External Relations

### Contact Information

**Dr Leung, Yee Man Angela 梁綺雯**

**Title:** Associate Director

**Department:** Sau Po Centre on Ageing
School of Nursing

**Faculty:** Faculty of Social Sciences
Li Ka Shing Faculty of Medic...

**Research Interests:** (click to check for cognate researchers)
* Health literacy and healt...
* Chronic illness manage...
* Service learning in ge...
* Technology and agin...

**My URLs:**
* Departmental page...
* http://orcid.org/0000-0002...

**Also Cited As:**
Leung, AYM
Leung, A
Leung, Yee-man, Angela

**Tel:** 2819 2630
**Office:** FMA 414

学者专页增加了港大学者的曝光度，可吸引更多的合约研究、媒体访问等

**Home** | **Publications** | **Researchers** | **Organizations** | **Grants** | **Datasets** | **Theses** | **Patents** | **Community Service**

⬇ **File Download**

📄 Content.pdf

Contact the author(s)

🔗 **Links for fulltext**
(May Require Subscription)

- **Publisher Website:** 10.1016/j.biocel.2014.09.002
- **Scopus:** eid_2-s2.0-84907467471
- **PMID:** 25220476
- **Find via** Find It ⊖HKUL

📑 **Supplementary**

🔖 *Citations:*
   ○ Scopus: 2
📑 Appears in Collections:
   ○ Surgery: Journal/Magazine Articles
   ○ Anatomy: Journal/Magazine Articles
   ○ President's Office: Journal/Magazine Articles

[Am] score 1     Tweeted by **1**

See more details     **1** readers on Mendeley

著作记录显示了著作与作者的开放引文指标

**Article**: Homeobox b5(Hoxb5) regulates the expression of Forkhead box D3 gene (Foxd3) in neural crest

Show simple item record | Show full item record | Export item record

| Title | Homeobox b5(Hoxb5) regulates the expression of Forkhead box D3 gene (Foxd3) in neural crest |
|---|---|
| Authors | Kam, MKM<br>Cheung, MCH 👤<br>Zhu, JJ<br>Cheng, WWC<br>Sat, EWY<br>Tam, PKH 👤<br>Lui, VCH 👤 |
| Issue Date | 2014 |
| | Elsevier BV. The Journal's web site is located at http://www.elsevier.com/locate/biocel |
| | The International Journal of Biochemistry & Cell Biology, 2014, v. 55, p. 144-152 *How to Cite?*<br>DOI: http://dx.doi.org/10.1016/j.biocel.2014.09.002 |

| Abstract | Patterning of neural crest (NC) for the formation of specific structures along the anterio-posterior (A-P) body axis is governed by a combinatorial action of Hox genes, which are expressed in the neuroepithelium at the time of NC induction. Hoxb5 was expressed in NC at both induction and migratory stages, and our previous data suggested that Hoxb5 played a role in the NC development. However, the underlying mechanisms by which Hoxb5 regulates the early NC development are largely |

**References**   References in Scopus

**Grants**   Identification of functional variants in Neuregulin-1 (NRG1), a newly discovered Hirsc[...] disease gene
Genetic dissection of Hirschsprung's disease
Developmental genomics and skeletal research

**Author Affiliations**

1. Shenzhen Children's Hospital
2. The Centre for Applied Genomics University of Toronto
3. The University of Hong Kong Li Ka Shing Faculty of Medicine
4. China Medical University Shenyang
5. Huazhong University of Science and Technology
6. University of Toronto

研究赞助机构的公开说明

著作与资助、专利和数据集相互关联

# Li Ka Shing Faculty of Medicine

**⊕ Collaborations ▾** | **📊 Bibliometrics ▾** | **🔔 Email Alert** | **📶 RSS Feed**

## Organization Data
General Information
Teaching List, Current (1,218)
Faculty Newsletter

## Publications        Export
Journals Used (3,194)
Articles (29,794)
Conference Papers (23,758)
Books (370)
Book Chapters (1,359)
Exhibitions (1)
Others (39)

## Researchers
ResearcherPages (490)
RP - Honours, Awards & Prizes (1,870)
RP - Committee Appointments (300)
RP - Editorships (2,681)
RP - Professional Qualifications (995)
RP - Professional Societies (2,272)

## Grants
▶ Current (1,075)

### Grant - Current

Showing 1 to 10 of 1,075 entries

| Status | Project Code | Project Title | Amount | Funding Year |
|---|---|---|---|---|
| 🌸 | 01121436 | Statistical method to identify risk genes of complex diseases based on functional gene sets and networks, with a genetic data mining application to hepatocellular carcinoma | 999990 | 2013/2014 |
| | | Principal investigator    Dr Li, Miaoxin 👤<br>Co-Investigator    Dr Kwan Sheung Him<br>Co-Investigator    Dr Jiang Deke<br>Co-Investigator    Professor Yu Long<br>Co-Investigator    Professor Ng Irene Oi Lin 👤<br>Co-Investigator    Professor Sham Pak Chung 👤 | | |
| 🌸 | 02132216 | Genetic risks for chronic periodontitis: A genome-wide association study | 999980 | 2014/2015 |
| | | Principal investigator    Professor Leung, Wai Keung 👤<br>Co-Investigator    Professor Cheah Kathryn Song Eng 👤<br>Co-Investigator    Professor Chan Danny 👤 | | |

港大医学院的开放资助项目信息，方便甄别获得款项最多的个人及项目主题

# New Program: Research Data Management (RDM)

新项目：研究数据管理

# *HKU Policy on the Management of Research Data and Records*
## 香港大学管理研究数据和记录的政策(*2015*)

- **Researchers (Staff & students)** are responsible for:
  - Manage & document data
  - Depositing data

- **University** is responsible for:
  - Providing facilities (data repository)
    - ➢Integration with Hub publications, grants, authors
  - Training, support, advice

- 研究员（职员及学生）的责任：
  - 管理及记录数据
  - 存放数据

- 大学的责任：
  - 提供设施（数据典藏）
    - ➢整合学术库的著作、研究资助、作者
  - 培训、支援、建议

# *Library responsible for infrastructure*
## 图书馆需要提供基础设施

- Hardware & software

- UI for deposit

- Indexing & display of metadata

- Training, publicity, support

- 硬件和软件

- 存放界面

- 索引和显示元数据

- 培训、宣传、支援

# *Emphasis on "Responsible Research & Integrity"*
## *强调"可靠的研究和完整性"*

- Ethical data collection & storage
  - Human data: redaction ?
- Prevention of data loss
- Replication datasets
  - Proving research results if called upon

- Default access control: "restricted"
- Optional choice: public for re-sharing

- 1st RDM program in HK UGC schools
  From HKU ➔ UGC-wide adoption
  Closed Data ➔ Open Data

- 合乎道德准则的数据采集和存储
  - 人员数据: 编校 ？
- 防止数据丢失
- 复制数据集
  - 需要时提供研究结果

- 默认访问控制: "受限"
- 备用选择: 公众共享

- 为大学教育资助委员会（教资会）下属院校中首先开展研究数据管理项目的学校
  港大➔ 教资会其他院校
  封闭数据 ➔ 开放数据

## What is Research Data Management ?

HKU now requires RDM. RDM is a general term covering how you organize, structure, store, and care for the information used or generated during a research project. It includes the points below. The benefits of RDM, and the number now of funders, journals, and institutions requiring RDM are many and growing.

- Planning how your data will be collected, stored and cared for -- before, during, and after your research project -- many funders now require data management plans as part of applications. Many journals as a prerequisite to publishing an article, require underpinning datasets to be openly deposited.
- How you deal with information on a day-to-day basis over the lifetime of a project.
- What happens to data in the longer term - what you do with it after the project concludes.

## What Services can HKU Libraries Provide ?

The Libraries manage the HKU Scholars Hub which allows deposit of research data, storage, controlled access, and preservation. They

### Quick Links

- Policy on the Management of Research Data & Records
- Policy on Research Integrity
- Intellectual Property Rights Policy
- Institutional Review Board
- Human Research Ethics Committee
- Research Services
- Research
- Graduate School
- Research Computing

图书馆提供研究数据相关服务：指引、培训、咨询及宣传

### Research Data Management

**Before Project**

Considerations (Copyright & Ethical)

Data Management Plan

Documentation

Storage & Backup

Find relevant data

**During Project**

**After Project**

## Data Management Plan (DMP)

Many funders and journals now require DMPs. The 2015 HKU Policy on the Management of Research Records writes in paragraph 8, "[HKU] Researchers are responsible for: [..] developing and documenting clear procedures for the collection, storage, use, re-use, access and retention or destruction of the research data and records associated with their research. This include, where appropriate, defining protocols and responsibilities in a joint or multi-institution collaborative project. this information should be incorporated, where appropriate, in a research data management plan;"

A DMP is a digital document in which you describe what data you will collect during your research project, how you are going to store and mange the data during the project, and what whill happen to the data after the project is finished. The nature of your research project, data to be collected, and the requirements you need to fulfill will determine how you write your DMP.

### Points to be covered in a DMP

- Description of the data to be collected / created in terms of format, classification (eg. quantitative, qualitative, or sensitive)
- Standards / methodologies / metadata for data collection and management
- Ethics and Intellectual Property concerns or restrictions to protect sensitive including study participant confidentiality and intellectual property protection.

每位学者都需提供包括采集，存储及记录的数据管理计划

- Optional deposit from October 2016

- Research postgraduate students: new requirement from Sep 2017, must deposit data with ethesis

- Academic staff:
  – Plan for mandatory DMP with disbursement of RGC grant monies, summer of 2018
  – From those grants, completion report will require evidence of data deposit

- 2016年10月开始以自愿形式存放数据

- 研究生：2017年9月开始必须存放电子版毕业论文相关的研究数据

- 学术人员：
  – 预计2018年夏天开始利用研究资助局的款项施行强制性的数据管理计划
  – 该款项要求数据存放证明的完整报告

# Adding Dataset

(For Open Data Access now. Procedures for Restricted Data will be added later.)

* For instructions, please visit, http://lib.hku.hk/researchdata/deposit_page.htm

Toggle View

**Title** *

(If title is same as Journal Article, please add Data From)

Enter Title...

Add "Data From"

**Alternative Title**

+ Add A New Alternative Title

1

**Author** *

+ Add A New Author

1    **Name**    **Affiliation**

数据录入表格，可依照港大现行标准设置访问控制

The University of Hong Kong

The HKU Scholars Hub 香港大學學術庫

HELP
- HKU Login
- Guest Login

Home   Publications   Researchers   Organizations   Grants   Datasets   Theses   Patents   Community Service

## Dataset

*File(s) held in the Hub*

**Dataset Description**

**Files**

**Linked Publications**

**Linked Grants**

**Terms of Use**

数据集与学者专页、相关论文及资助项目关联

| | |
|---|---|
| **Title** | Data from LANGUAGE USE, PROFICIENCY AND ATTITUDES IN HONG KONG<br>數據源於 香港居民語言應用、語言能力及語言態度研究 |
| **Author** | Bacon-Shone, John [1]<br>Bolton, Kingsley [2]<br>Luke, Kang Kwong [2] |
| **Co** | Bacon-Shone, John [1] |
| | 2016-09-15 |
| **Description** | This study builds on the detailed empirical research of the three investigators, who have been collaborating on researching the Hong Kong linguistic situation since the early 1980s. This research utilises social survey methodology to investigate which languages are used within the community. In more technical terms, this has involved carrying out 'sociolinguistic surveys' (surveys of languages in society) to investigate which languages are learnt, and which are used, by whom to whom, across a range of settings (or 'domains') in Hong Kong society. Previously, three such surveys have been conducted, in 1983, 1993, and 2003. The 1983 sociolinguistic survey used face- to-face interviews with a total of 1240 respondents (Bolton and Luke 1999). This was followed, in 1993 and 2003, by two telephone surveys conducted by the Social Sciences Research Centre of The University of Hong Kong, where a total of 886 respondents were interviewed in the 1993 survey, and 1060 in the 2003 (Bacon-Shone and Bolton 1998, 2008). One broad aim of all three surveys was to describe patterns of language acquisition, language use, and attitudes to language policies in Hong Kong. This study carried out a sociolinguistic survey of Hong Kong in 2014 together with detailed reanalysis of the 2011 census data across the 18 districts and 412 constituency areas, which yields useful and applicable results relating to ethnic/linguistic minorities, multilingualism, multiculturalism, and language planning, of direct interest to public policy in Hong Kong. It also calibrates for the first time, using expert assessment, self- reported claims of proficiency in oral English and Putonghua and written English and simplified Chinese. 摘要 此研究項目的三名負責人自一九八零年代開始對香港語言情況進 |

🏠 Home | Publications | Researchers | Organizations | Grants | Datasets | Theses | Patents | Community Service

## Dataset

*File(s) held in the Hub*

Dataset Description

Files

Linked Publications

Linked Grants

Terms of Use

Creative Commmons: Attribution-NonCommercial (CC BY-NC). https://creativecommons.org/licenses/by-nc/3.0/hk/

使用条款:
**Creative Commons:**
**Attribution-NonCommercial**
**(CC BY-NC)**
非商业用途

**Home**　**Publications**　**Researchers**　**Organizations**　**Grants**　**Datasets**　**Theses**　**Patents**　**Community Service**
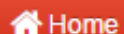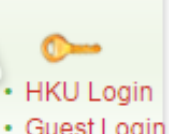
## Dataset

Dataset Description

Files

Linked Publications

Linked Grants

Terms of Use

**Citations**

Google Scholar: 2

| | |
|---|---|
| **Title** | Data from: Testing Propositions Derived from Twitter Studies: Generalization and Replication in Computational Social Science |
| **Author** | Liang, Hai [1]<br>Fu, King-wa [1] |
| **Contact** | Fu, King-wa [1] |
| **Date of Dataset Creation** | 2015-06-07 |
| **Description** | Replication is an essential requirement for scientific discovery. The current study aims to generalize and replicate 10 propositions made in previous Twitter studies using a representative dataset. Our findings suggest 6 out of 10 propositions could not be replicated due to the variations of data collection, analytic strategies employed and inconsistent measurements. The replication data include 4 files: 1. EgoAlterProfiles (egos are randomly selected Twitter users; alters are the followers and followees of the egos) 2. EgoNetworks (all egos and their following relationships with alters) 3. Exposure (the aggregated data for testing exposure hypothesis) 4. EgoTimelines (all tweets information posted by egos) All datasets have been anonymized. |
| **Citation** | Liang, Hai, Fu, King-wa. (2015). Data from: Testing Propositions Derived from Twitter Studies: Generalization and Replication in Computational Social Science [Data File]. All data are available from the Harvard Dataverse, DOI: http://dx.doi.org/10.7910/DVN/L1MJZ6 |
| **Subject (RGC Codes)** | E2 — Computing Science & Information Technology — 電腦科學及資訊科技<br> └ 2211 — Information Analytics — 資訊分析 |
| **Subject (ANZSRC)** | 20 — LANGUAGE, COMMUNICATION AND CULTURE — 語言, 傳播與文化 |

连结引用次数
（原型）

Google

Scholar

All citations

Articles

Case law

My library

Any time
Since 2016
Since 2015
Since 2012
Custom range...

Sort by relevance
Sort by date

☑ include patents
☑ include citations

Testing propositions derived from Twitter studies: generalization and replication in computationa...

☐ Search within citing articles

Privacy protection and self-disclosure across societies: A study of global Twitter users

H Liang, F Shen, K Fu - New Media & Society, 2016 - nms.sagepub.com

Abstract Privacy is a culturally specific phenomenon. As social media platforms are going global, questions concerning privacy practices in a cross-cultural context become increasingly important. The purpose of this study is to examine cultural variations of ...

Related articles    Cite    Save

Find It@HKUL

Probing the Limits of Social Data

A Olteanu - 2016 - infoscience.epfl.ch

Abstract Online social data has been hailed to provide unprecedented insights into human phenomena due to its ability to capture human behavior at a scale and level of detail, both in breadth and depth, that is hard to achieve through conventional data collection techniques ...

Related articles    Cite    Save    More

[PDF] epfl.ch

✉ Create alert

# *Integrated & Contextualized*
# 整合及脉络化

- Data, part of the research cycle
  - PI, department, grant, publication, citations ➔ **impact** !
- Discovery
  - Discovery on one, can lead to discovery on all
  - More chance for all to be read & cited
  - Many access points
- Funders & admin can understand better the impact of their sponsoring $$

- 数据是研究过程的一环
  - 首席研究员、部门、研究资助、著作、引用➔**影响力**!
- 探索
  - 由个体引申至全部
  - 更多机会被阅读和引用
  - 多个存取点
- 资助机构及行政人员更加了解研究资金的影响力

# *Open Research: Benefits*
# *开放研究：优势*

- OA benefits amplified with OR
  - Greater discovery, readership & citations
  - Greater public engagement
  - Faster Impact
  - Wider Collaboration
  - Increased interdisciplinary conversation
  - Increased business opportunities

- And,
  - OR will make research results more reproducible & transparent

- 开放研究扩大了开放获取的优势
  - 增加曝光度、阅读量及引用次数
  - 增加公众参与
  - 更快产生影响力
  - 更广泛的合作
  - 增加跨学科的交流
  - 增加商业机会

- 以及,
  - 开放研究可以增加研究成果的可重复性和透明度

# Extending DSpace ➜ DSpace-CRIS
# DSpace的扩展 ➜ DSpace-CRIS

- Relational Tables: top level objects & attributes
- UI: Mash-up to show integrated display
- Developed with our partner, CINECA of Italy (Development team now at 4Science.it)

- 关联表格: 顶层的对象及属性
- 用户界面: 混合以显示整合界面
- 与意大利的**CINECA** 合作开发（开发团队现在在`4science.it`）

| | | |
|---|---|---|
| 著作 | **Publications** | • Article title<br>• Publication year, etc. | 标题，出版年份等 |
| 学者 | **Researchers** | • Name(s)<br>• Department, etc. | 姓名，院系等 |
| 数据集 | **Datasets** | • Research project<br>• Citations, etc. | 研究项目，引文次数等 |

**Open Source:** https://wiki.duraspace.org/display/DSPACECRIS/DSpace-CRIS+Home

# *References* 参考书目

- Liu, E., & Palmer, D. T. (2015). The HKU Scholars Hub - Beyond an institutional repository [香港大學學術庫——機構知識庫的應用擴展]. *Journal of Academic Libraries* [大學圖書館學報], *4*, 68-75. Available at http://hub.hku.hk/handle/10722/219961

- Palmer, D. T., Bollini, A., Mornati, S., & Mennielli, M. (2014). DSpace-CRIS@ HKU: Achieving visibility with a CERIF compliant open source system. *Procedia Computer Science*, *33*, 118-123. doi: http://dx.doi.org/10.1016/j.procs.2014.06.019; also available at http://hub.hku.hk/handle/10722/198431

- Yiu, A.C.H. (2016, July). HKU Scholars Hub: From IR to CRIS. Presented at the 1st U21 Librarian Group Summit and University Library Pioneer Conference, Shanghai, China. Available at http://hub.hku.hk/handle/10722/226796

# *Acknowledgement*

- **The authors would like to thank the HKU Scholars Hub team for their dedicated work and concerted effort in improving the Hub.**

- This PPT & PDF are licensed under the Creative Commons Attribution "CC-BY" license.  This license permits use of this work, so long as attribution is given.  For more information about the license, visit http://creativecommons.org/licenses/by/3.0/

- Archived at http://hub.hku.hk/handle/10722/233946

**David T Palmer**

**Eliot Liu**

http://hub.hku.hk/cris/rp/rp00001
http://orcid.org/0000-0001-5616-4635        http://orcid.org/0000-0002-4862-2373

香港大學
The University of Hong Kong

香港大學學術庫
The HKU Scholars Hub