EXPERIMENTING WITH DIGITAL: SCHOLARSHIP AND THE LIBRARY AT CUHK

LOUISE JONES, UNIVERSITY LIBRARIAN,
CONCERT, 12 NOVEMBER 2018

The Chinese University of Hong Kong Library
PRESENTATION OUTLINE

- CUHK and CUHK Library Facts & Figures
- CUHK Library Strategy
- Supporting the student journey
  - InfoLit for You
  - From Learning Garden to MakerSpace
- Transforming our research support
  - Staff – Research Support & Digital Initiatives Team
  - Space – Digital Scholarship Lab
  - Services
  - Digital Repository
- Lessons Learnt
China Studies
- China’s Global Challenges
- Roots of Chinese Culture

Environment and Sustainability
- Smart and Sustainable Cities
- Climate Change
- Plant Molecular, Cell and Agricultural Biology and Food Security
- Renewable Energy and Natural Resources
- Population Studies: Migration, Youth Development and Ageing Management

Translational Biomedicine
- Genetic, Genomic and Precision Medicine
- Stem Cell Biology and Regenerative Medicine
- Brain and Mind
- Integrative Medicine
- Innovative Medical Devices

Information and Automation Technology
- Intelligent Reasoning and Cognition
- Big Data and eLearning Research
- Robotics
- Network Coding
CUHK Rankings*

**QS World University Rankings**
- 10th in Asia
- 46th in the World

**QS World University Rankings by Subject**
- 20th Communication and Media Studies
- 32nd Electrical and Electronic Engineering
- 33rd Sociology
- 34th Pharmacy & Pharmacology
- 35th Computer Science and Information Systems
- 36th Geography
- 36th Mathematics
- 36th Modern Languages
- 37th Education and Training
- 38th Hospitality & Leisure Management
- 39th Business & Management Studies
- 40th Social Policy & Administration
- 46th Economics and Econometrics
- 47th Medicine
- 50th Engineering and Technology

**ARWU Top University in Greater China**
- 1st in Hong Kong
- 4th in Greater China

**Times Higher Education Rankings**
- 11th in Asia
- 58th in the World

**Times Higher Education Rankings by Subject**
- 38th Education
- 39th Law
- 34th Computer Science

**Reuters Asia’s Most Innovative Universities**
- 1st in Hong Kong

**Financial Times Top MBAs for Finance Rankings**
- 1st in Asia
- 1st in East Asia

* Figures as at 30 November 2017
CUHK LIBRARY

Upper campus:
New Asia College Library,
United College Library

Central campus:
University Library,
Law Library

Lower campus:
Chung Chi College Library,
Architecture Library

Medical Library at Prince of Wales Hospital

Straddling Two Eras

Traditional Library Unsustainable, but Digital Services Still Unready for Prime Time

Managing the Migration

Books: Move to e-formats and user-driven acquisition more difficult than anticipated

Journals: Rising prices spurring new, but unproven alternatives to the Big Deal

Space: Collections limit ability to accommodate demand for learning space

Staff: Tied up in traditional activities with declining demand
TRANSFORMATIONAL SHIFT

Service provider
- Collection arms race
- Access
- Commodity circulation & reference
- Space for print
- Local
- Reactive

Strategic Asset
- Collaborative collection development
- Open, scholarly communications
- Sense-making & expertise, specialists
- Space for users
- Regional & international
- Proactive
CUHK Library Strategic Plan
2017-2020
Open, Connect, Sustain
SUPPORTING THE STUDENT JOURNEY

Using information analytically, creatively & wisely to learn

Leading institution: 

Participating institutions:
LEARNING GARDEN
FROM 3D PRINTING TO MAKERSPACE
“the use of digital evidence and method, digital authoring, digital publishing, digital curation and preservation, and digital use and reuse of scholarship”

“Stop asking if the library has a role, or what it is, and start getting involved in digital projects that are already happening. **Advocate for new expanded roles and responsibilities to be able to do this.** Become producers / creators in collaboration with scholars rather than servants to them.”

(Michel Vandegrift, http://www.inthelibrarywiththeleadpipe.org/2012/dhandthelib/)
Through our research services and collections we will support the University’s research and emerging interdisciplinary strengths throughout the research lifecycle. We will champion new forms of scholarship and the practice of open scholarly communication.

• Strengthen our services and collections for emerging areas of research at CUHK, including digital humanities and digital scholarship.
• Advance open scholarship.
• Support the dissemination of CUHK research outputs to the world.
• Foster discussions on research data services.
• Collaborate with CUHK researchers to build and curate unique collections that serve their research interests.
• Sustain our innovative offering to an increased research postgraduate population
**STAFFING**

- Started small to ensure sustainability
- More staff can be added when the service grows
- One Digital Scholarship Librarian came to the team through internal transfer after studying staff skills
  - A graduate in Geography with a Postgraduate Diploma in Applied Geoinformatics
  - External recruitment encountered great difficulties
- One Research Assistant (project-based) to assist with digital scholarship research projects
- Other services such as copyright advice, digitization, technological support are supported by other professionals in RSDI
DIGITAL SCHOLARSHIP SERVICE

- Support for Digital Scholarship projects
  - Sourcing of research data and information
  - Consultation
  - Project planning and management
  - Technology platform and support
- Training workshops & seminars
- Provide Data Services
- Promotion events
- Provide learning resources
ENGAGEMENT

- Initial consultation group of Faculty to design the service and Lab
- Attend Faculty internal meetings
- Meet with individual faculty
- Tailor-made presentations and briefings on specific services
- Embed workshops into the classes of individual Faculty
- Proactively liaise with research seminar and conference organisers, offering them the Lab as a venue
- Social media (Blog, Facebook, Twitter) and print promotional materials
- Use links with research postgraduate network and student association
DIGITAL SCHOLARSHIP LAB
VISUALISATION ROOM

- Digital display wall
- 80” Interactive whiteboard
- Wired & wireless connections
- Multiple inputs available
- Moveable chairs & tables
SPECIALIST SOFTWARE

• VISUALISATION
  • Gephi, ArcGIS, R & R Studio, Tableau Public
• GEOSPATIAL
  • GRASS GIS, Google Earth Pro
  • ArcGIS
• DATA ANALYSIS
  • R & R Studio
  • SPSS
  • Nvivo
• TEXT MINING
  • Mallet
  • Markus
  • Voyant Tools
• And more …
Mainly Self-Service

• Briefing on the use of the lab prior to the booking; technical support might be provided on request
• Help Desk available for offering assistance in the use of the facilities
• IP Phone connected to RSDI Office directly for emergency assistance

Opening Hours

• Mon – Fri: 9:00 am – 5:30 p.m.
• Saturdays, Sundays, public holidays usually closed
• Free to all users if the lab is not reserved

Reservation for Activities

• Online reservation
• Restricted to Current academic, research & administrative staff and postgraduates
MORE WORKSHOPS ON DIGITAL SCHOLARSHIP TOOLS

Digital Scholarship & Research Data Workshops
(Jan – Mar 2018)

Digital Humanities: Introduction to Tools and Methodology
22 Jan (Mon)  2:30 p.m. – 4:00 p.m.

Combining Visual Perception with Data Analysis using Tableau
17 Jan (Wed)  11:00 a.m. – 1:00 p.m.
Instructor: Mr. Bobby WU
Tableau Consultant

Spatial Data Visualisation with Simple Map Making Tools
29 Jan (Mon)  11:00 a.m. – 12:30 p.m.

Analysing Texts Using Voyant Tools (Hands-on)
6 Feb (Tue)  11:00 a.m. – 12:00 noon
2 Mar (Fri)  3:00 p.m. – 4:00 p.m.

Using MARKUS to Tag and Analyse Chinese Text
6 Mar (Tue)  2:30 p.m. – 4:00 p.m.
Invited speaker: Dr. CHU Ming-kin
Assistant Professor, School of Chinese, HKU

Data Visualisation in Action - Gephi (Hands-on)
8 Mar (Thu)  3:00 p.m. – 4:30 p.m.
13 Mar (Tue)  10:30 a.m. – 12:00 noon

Cleaning Data with OpenRefine
20 Mar (Tue)  2:30 p.m. – 4:00 p.m.

Text-mining on Social Media Data
22 Mar (Thu)  2:30 p.m. – 5:30 p.m.
Invited speaker: Prof. LIANG Hai
Assistant Professor, School of Journalism and Communication, CUHK

Venue: Digital Scholarship Lab, G/F, University Library
Details & Registration: www.lib.cuhk.edu.hk/en/learning/workshops#introdh
Enquiries: dslab@lib.cuhk.edu.hk
Academics from CUHK and other institutions presented their digital scholarship research and explore the roles of the Library.
IN-PERSON CONSULTATION HOURS FOR WALK-IN USERS

- 29 in-depth consultations were handled
**SOME SUCCESS IN THE PAST 18 MONTHS**

**Library Workshops**

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<th>2017</th>
<th>2016 (Mar – Dec)</th>
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<tbody>
<tr>
<td><strong>Total sessions</strong></td>
<td>31</td>
<td>19</td>
</tr>
<tr>
<td><strong>Total attendance</strong></td>
<td>362</td>
<td>108</td>
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**Organised Visits**

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<tr>
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<th>2017</th>
<th>2016 (Mar – Dec)</th>
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<tbody>
<tr>
<td><strong>Total</strong></td>
<td>36</td>
<td>288</td>
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**Other Bookings & Events**

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<tr>
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<th>2017</th>
<th>2016 (Mar – Dec)</th>
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<tr>
<td><strong>Total no. of events</strong></td>
<td>81</td>
<td>30</td>
</tr>
<tr>
<td><strong>Total no. of participants</strong></td>
<td>1753</td>
<td>901</td>
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**Individual Consultations and Enquiries**

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<th>2017</th>
<th>2016 (Mar – Dec)</th>
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<tr>
<td><strong>Total</strong></td>
<td>93</td>
<td>30</td>
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Welcome to CUHK Digital Repository

The Chinese University of Hong Kong (CUHK) Digital Repository is a one-stop repository for accessing all the publicly available digital content created and maintained by the CUHK Library. More


A Grain of Sand: Poems from Hong Kong
Archive of Christian Study Centre on Chinese Scripture and Culture
Calligraphy & Paintings Collection
Chinese Medicine Texts Collection
Chinese Rare Book Digital Collection
CUHK DIGITAL REPOSITORY

- A one-stop platform built on Islandora Framework hosted at Amazon Web Services
- Able to support various formats of digital objects
- Scalable to support growing size of digital projects and digital collections
- Supports English, traditional and simplified Chinese interfaces
- Supports searching of Chinese in traditional, simplified, and variant form
- Supports individual and cross search of all digital collections
- Same branding as CUHK Library main website to maximize user experience and for easy navigation

http://repository.lib.cuhk.edu.hk
CURRENT STATUS OF THE REPOSITORY

- Launched in 2016
- 14 Digital Collections
- Over 1 million digital objects (most objects are images of Chinese rare books)
- ~17TB of data storage used
- Recorded over 1.4 million accesses since launch
- Another 4 million images to be loaded into the repository in the near future
Welcome to this CUHK Library Digital Scholarship Projects Site

The CUHK Library is eager to collaborate with CUHK Faculty members and researchers to support them in conducting digital scholarship research through a suite of services, cutting-edge space, research tools, user training, consultation, and technological support. We also embrace open access to encourage more similar digital scholarship research and avoid re-inventing the wheel. This online platform is especially created to deliver these projects, open up the research data if any, and to demonstrate the application of digital tools in research. Any faculty members or researchers interested in partnership are welcome to contact us.

Projects

GIS Mapping and Archaeology of Early China

GIS Mapping and Archaeology of Early China - Phase I: Shang Archaeology

Introduction

Map of Archaeological Sites

Methodology

Dataset Use Guide

Dataset - Northern China, c. 1200 – c. 1050 B.C.

Dataset - Hunan Province, c. 1300 – c. 1000 B.C.

Terms of Use

This project is a collaboration between the Digital Scholarship Lab and archaeological experts of the Faculty of Arts. Specialists in Humanities have become aware of the advantages in employing digital technologies in research and presentations. Between 2010 and the present, the staff of the Lab have been working with Professor Colinui Lai, who works on Early China, to document his research data collected between 2005 and the present, regarding the Early Bronze Age finds along the Yangzi River valley during the first millennium.

This is the first time the finds from the Yangzi River regions, which were traditionally regarded as peripheries to the civilized regions of the Shang regna (c.1500 – c.1045 BC) were properly digitized and presented. The purposes of the project are summarized as follows:

1. Publish maps of Chinese archaeological sites for general and academic use;
2. Establish a well-maintained platform for the exchange of information about Early China;
3. Illustrate cross-disciplinary possibilities among Archaeology, History, Geography, and other relevant disciplines.

The current webpage is presenting the first set of maps regarding the finds from the Anyang period (c.1200 – c.1045 BC). It will be continuously updated and expanded to include other regions and archaeological phases.
Right approach at CUHK to develop digital with a package of services, collaborative space, tools and resources. May not be at your institution

Essential to foster Faculty-Librarian partnership

Give the service time to grow. First year laid the foundation on space and initial connection building with Faculty

The Learning Garden & Lab helps to reposition the Library’s commitment to support digital

The Learning Garden & Lab can serve as a neutral platform for faculty collaboration

The Learning Garden & Lab is a strong platform for teaching

Invest in staff development, including local, regional and international networking

Essential to continuously enhance the facilities, review and innovate service provision, promotion & outreaching
Questions?

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