

Library & Digital Humanities:

New Vision | New Role | New Services

图书馆与数字人文:

新视野 | 新角色 | 新服务

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聂华 NIE HUA 北京大学图书馆 PKU

2018 PRRLA Annual Meeting

@ Berkely, 2018.09.17

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## 目录 Agenda

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- 1 数字人文是什么? Digital Humanities?
- 2 数字人文在中国 DH in CHINA
- 3 图书馆的新视野 What can Library do?
- 4 图书馆的新实践与新服务 DH in Peking University



“We need more welders and fewer philosophers”

“我们需要更多的焊工和更少的哲学家”

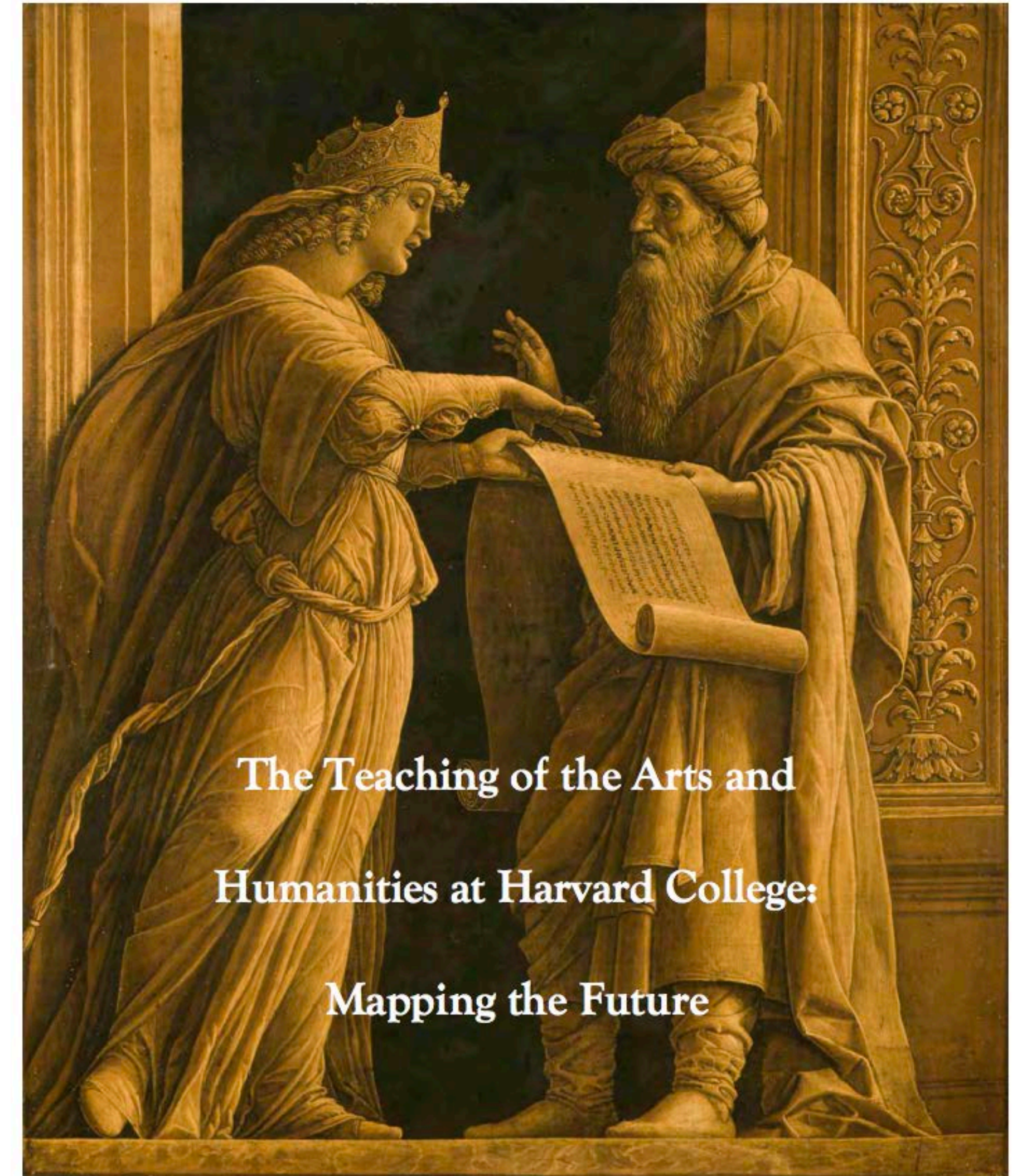
“学好数理化，走遍天下都不怕”

## Humanities crisis ?

- 2013.6 American Academy of Arts & Sciences: The Heart of the Matter: The Humanities and Social Sciences for a vibrant, competitive, and secure nation
- 2013.11.8 New York Times: As Interests Fades In Humanities, Colleges Worry
- 2017 Harvard Report: The Teaching of the Arts and Humanities at Harvard College: Mapping the Future

### General Observation:

- (1) 人数直线下降 (全美7.06%)
- (2) 就业困难引起流失
- (3) 师生比例失调
- (4) 不断关停专业和课程的趋势....



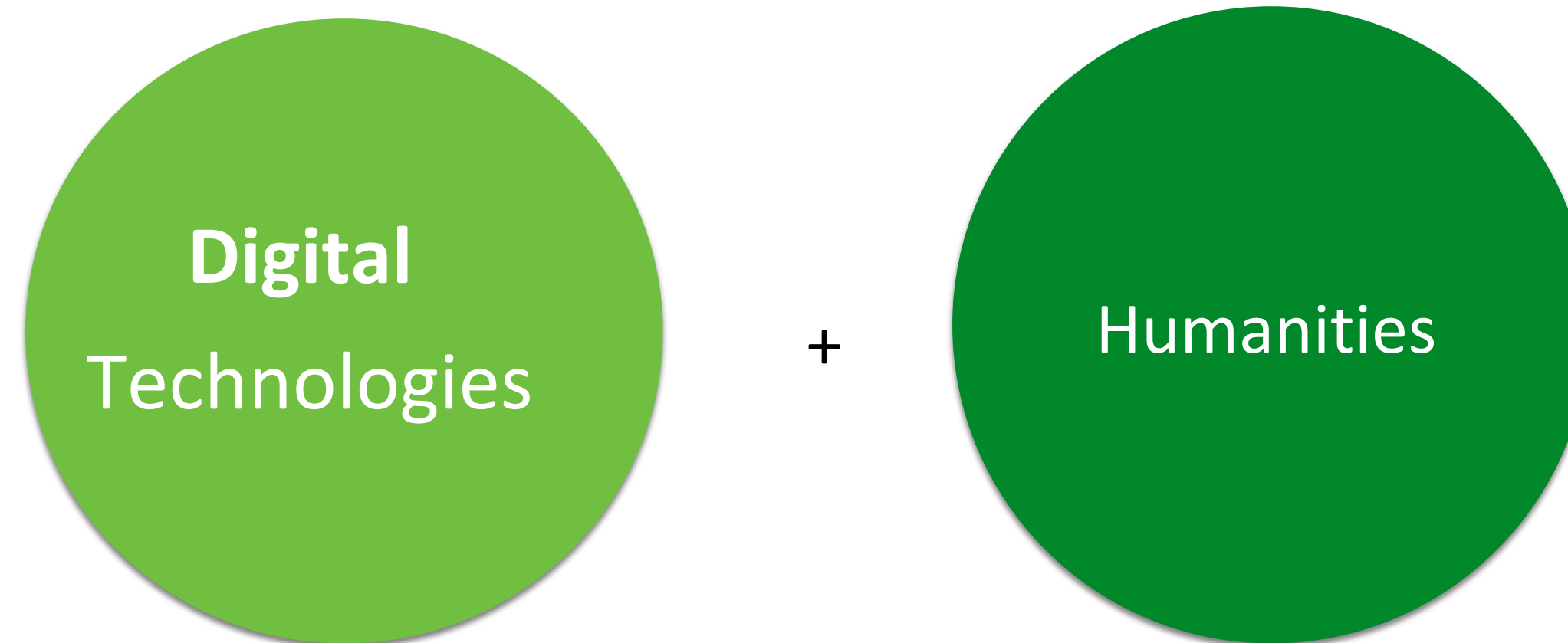
The Teaching of the Arts and  
Humanities at Harvard College:  
Mapping the Future



1. It is an area of scholarly **activity at the intersection of computing or digital technologies and the disciplines of the humanities**, it includes the systematic use of **digital** resources in the **humanities**, as well as the reflection on their application. **OR**
2. It refers to generally **related information resources collection, processing, organization, service, research, education and other activities** carried out around the digital preservation and application of the knowledge subject of specific research objects in the humanities field.

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## What is DH? Various Definitions.....



1. 所谓“数字人文”，是计算或数字技术与人文学科交叉的学术活动领域，它一方面是数字资源在人文学科中的系统化的应用（**systematic use of digital resources**），另一方面，是对这种应用的反思与反馈（**the reflection on their application**）。
2. 所谓“数字人文”，是指围绕人文学科领域特定研究对象知识本体数字化保存和应用所进行的相关信息资源采集、加工、组织、服务、研究、教育等活动总称。



“Humanities Computing”

“Digitized Humanities”

“Humanities Computing”

“eHumanities”

“Digital Humanities”

“digital humanist”

—  
What can DH do?

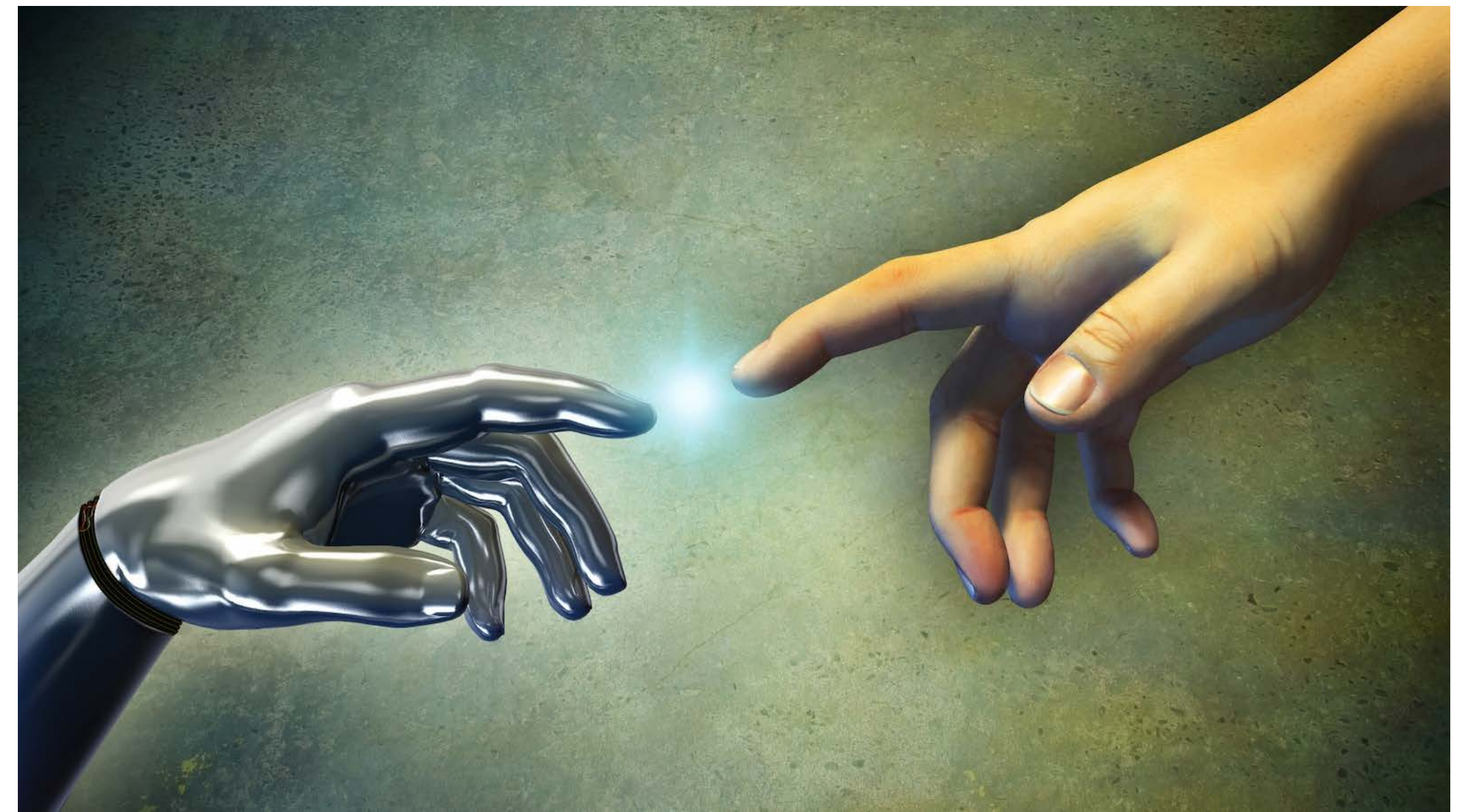
General expectations.....

- **use new technology** to facilitate **new academic discoveries**; attract scholars from different disciplines and interdisciplinary fields to the **topics of common concern** and the **same academic problem**,

伊利诺伊州立大学香槟分校  
约翰·昂斯沃斯 (John Unsworth)

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## What DH will bring to us? 一些共识：数字人文可以带来什么？



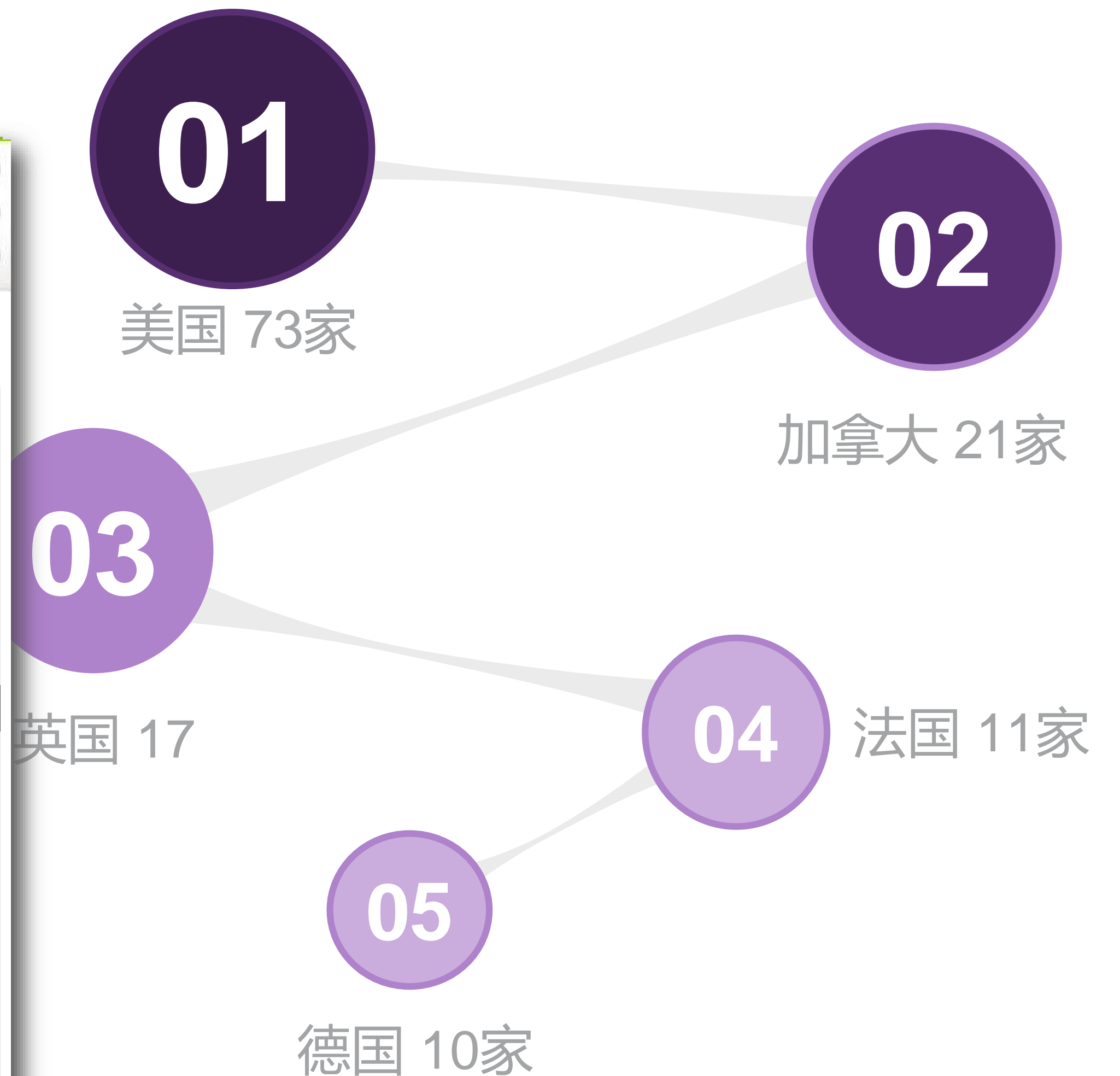
- **探索 (discovering)** : Quickly locate the required resources; prompt to locate resources that are already unknown to the scholars, and focus on high-level research
- **标注 (annotating)** : 句读、标引、注解、注释、笔记等活动
- **比较 (comparing)** : Digital technology introduces the alignment and labeling of hundreds of millions of texts in a matter of seconds, saving scholars time.
- **取样 (sampling)** : A large sample quantitative study that actually introduces quantitative research in the social sciences into the humanities.
- **阐释 (illustrating)** : 既能让众说纷纭的问题快速达成共识，也可以让已经有共识的重新进入研讨阶段。
- **呈现 (representing)** :



# 200+ DH Centers by 2018.05 @ CenterNet <http://dhcenternet.org/centers>

Over **90%** located in North America and Europe  
**3%** from Asia

The screenshot shows the website for the Research Center for Digital Humanities (RCDH) at National Taiwan University. The header includes the university's name in Chinese and English, and a logo. The main navigation menu lists: Home, Events, About RCDH, Project, Research, Past Events, Publication, and Links. The main content area has tabs for Archives, Repositories, and Events. A featured article titled 'Leishu Corresponding Inquiry System' is displayed, with a sub-header 'Leishu Corresponding Inquiry System' and a sub-section 'Open Access'. The text describes the 'Yiwen Leiju Collection' and the 'Taiping Yulan Collection'. On the right, a list of digital resources is shown, including 'Taiwan History Digital Library (THDL)', 'Digital Library & Museum of Buddhist Studies', 'Digital Archives Resource Center of NTU', 'Taiwan Ethnological Collections in Overseas Museums', 'National Repository of Cultural Heritage (New version)', 'Leishu Knowledge Inquiry System', 'Leishu Corresponding Inquiry System', 'Searching System of Official Positions in the Qing Dynasty', 'Chronological Studies of the Pre-Ts' in Philosophers', 'Comparative Reading System of The Three Commentaries of Chungju', 'Academia Historica Digital Archives Search System', 'Digital Repository of Taiwan Provincial Assembly', 'Digital Library of Local Councils Journals', 'MHB Newspaper Clippings Archives Search System', 'Social Movement Archives from ChiLin Foundation', 'Taiwan Colonial Court Records Archives', and 'Taiwan Colonial Empirical Statistics'.



# DH Institutes or Teams in China

## 数字人文机构 / 团队建设

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- Wuhan University DH Center @2011  
Department of Publishing Science
- Peking University DH Group in @2016  
Peking University Library
- Nanjing U. DH Center @2017.09  
School of History/Computer Science,  
School of Arts
- Many others.....



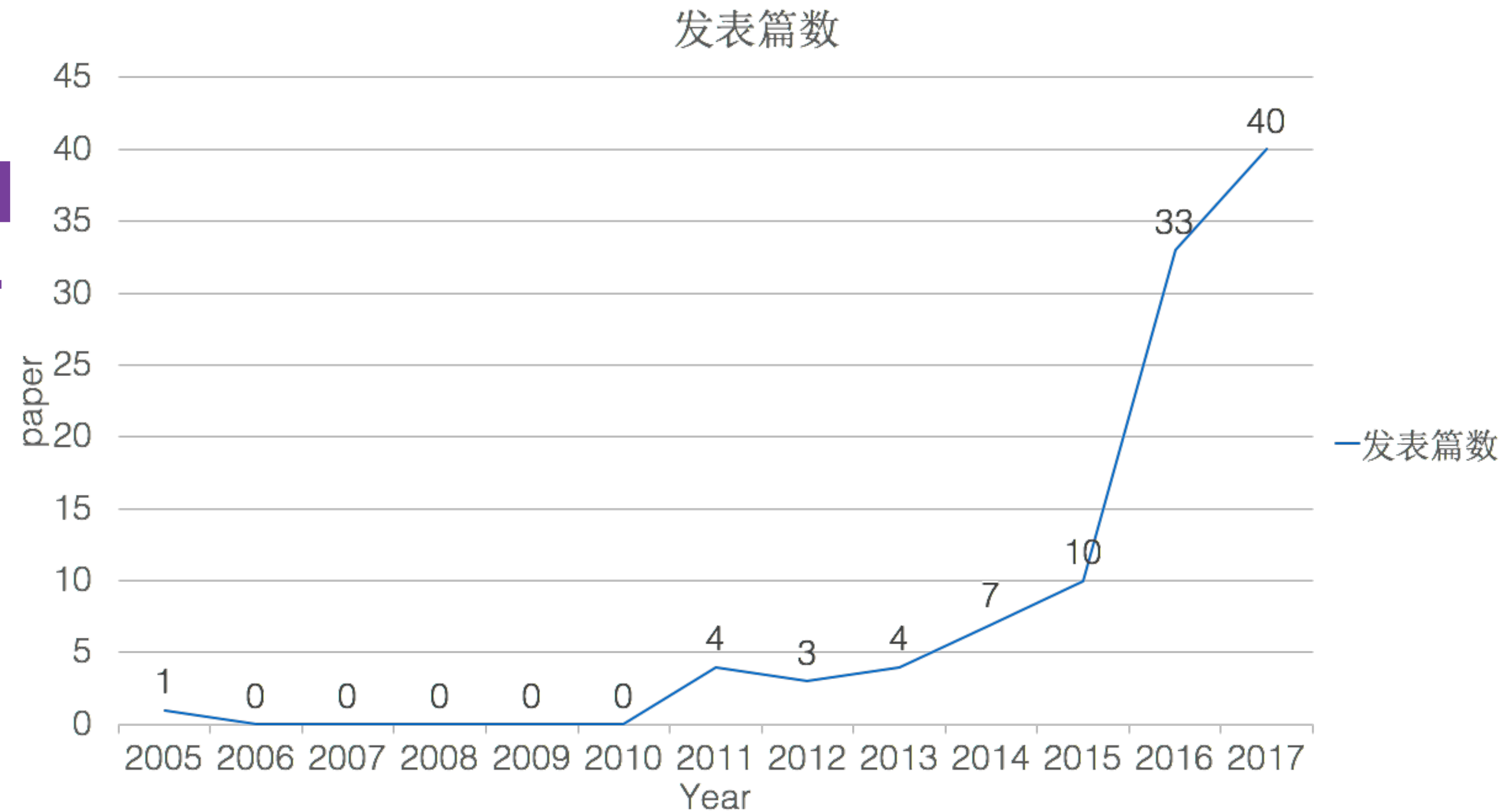
南京大學



## DH in CHINA Just Started 中国大陆数字人文研究起步

Funded Projects:  
2008: From 0 to 12  
2017: reach 37

.....  
**2018, back to 0.....**



The trend of academic papers in Chinese published from 2005 – 2017  
inflection point is the year 2015

CNKI: “数字人文” 、 “人文计算” in Title

Questions to ask and discuss continually with various stakeholders:

How can the library serve the core missions of the Digital Humanities? What is your expectation and recommendation to the university libraries?

## Library and DH 图书馆与数字人文

Dialog with Peter Bol

@Institute of Advanced Humanities,  
PKU

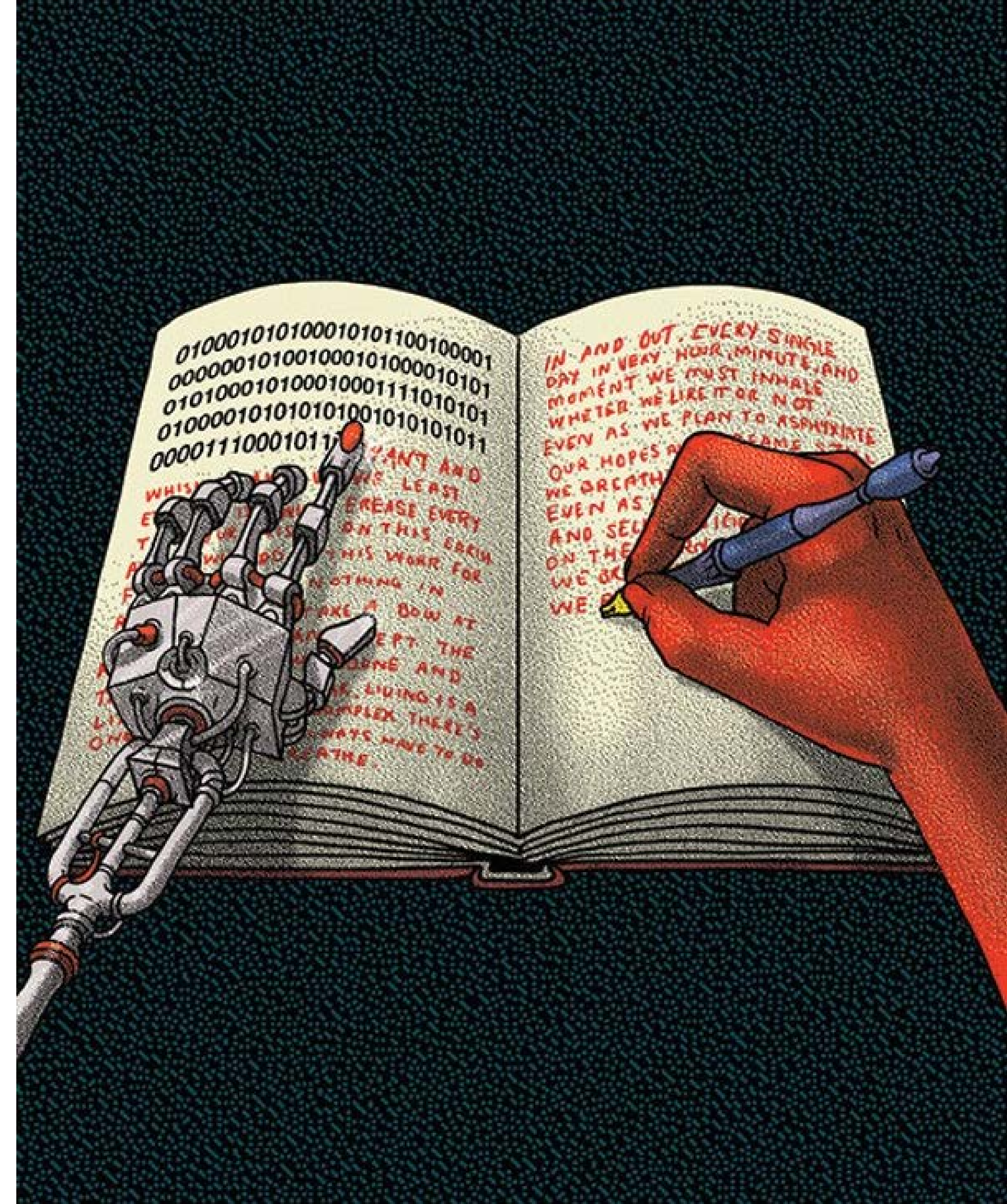
**Library**, as  
a **key** DH stakeholder.





# What should and can Library do?

1. popularizing relevant resources and tools via DH thematic information services
2. Advocate + Participate in DH cyberinfrastructure Development
3. Serve as a bridge for interdisciplinary cooperation
4. Acting as an incubator for digital humanities projects



搜集数字人文项目、工具，并结合人文研究和教学需求进行信息的分类汇总、翻译推介，深度加工和靶向推送。

# 1. DH thematic information services

The screenshot displays the University of Wisconsin-Milwaukee Libraries website. The header features the NYU Libraries logo on the left and the UWM Libraries logo on the right, with the tagline "POWERFUL IDEAS | PROVEN RESULTS". A navigation menu includes "Search & Find", "About the Libraries", "Libraries & Departments", "Forms & Services", "Giving", and "Help". A breadcrumb trail shows "UWM Libraries Homepage" and "About the Digital Humanities Lab". The main content area is titled "About the Digital Humanities Lab" and features a large banner with the text "The UWM Libraries DIGITAL HUMANITIES LAB" and the motto "CULTIVATE. COLLABORATE. CONNECT." Below the banner, there are buttons for "Home" and "Dictionary" on the left, and "phies" on the right. A search bar is visible on the right side of the page.



# 2. Advocate + participate Digital Humanities Cyber Infrastructure Development

数字化-》数字化图像-》文本内容-》数据  
digitization -> image -> text -> data

元数据-》关联数据-》开放数据

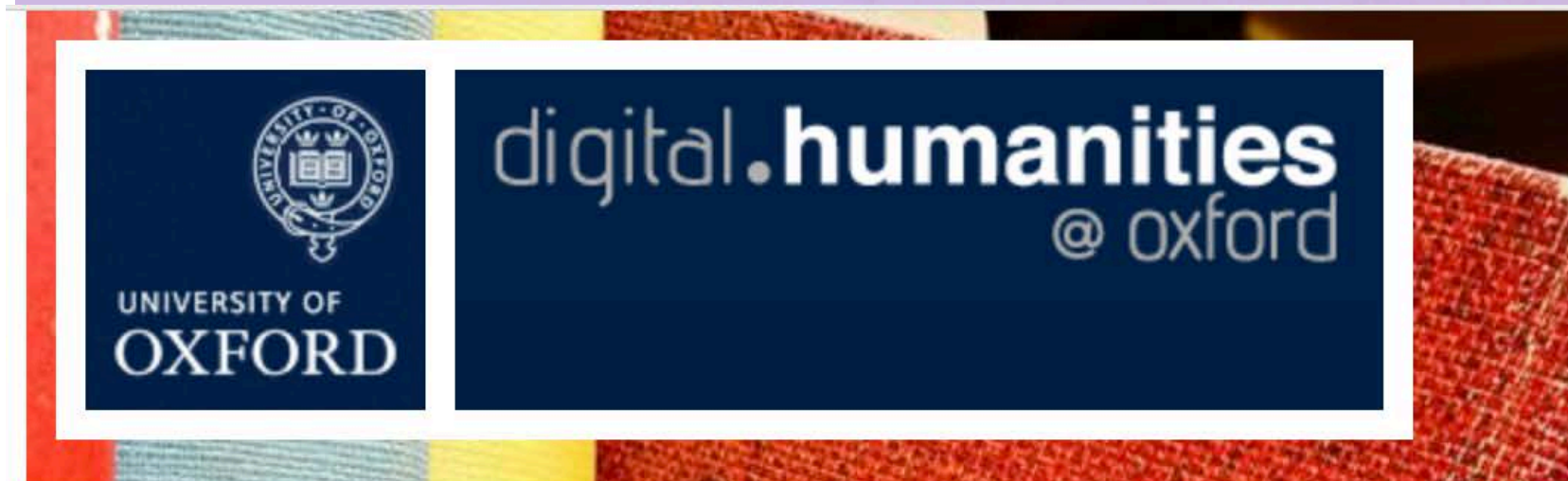
Metadata -> Linked data -> Open data

- HathiTrust Research Center: from digital resources accumulation to research and practice of digital humanities projects
- CADAL in China: 370万页, 数字化资源-数据化-智慧化

The image shows two screenshots of digital humanities resources. The top screenshot is the Chinese Text Project homepage, featuring a navigation menu on the left with categories like 'Pre-Qin and Han', 'Confucianism', and 'Excavated texts'. The main content includes a 'Welcome' message, a search bar, and a 'Latest additions' section. The bottom screenshot is the HathiTrust Digital Library search interface, showing a search bar with the text 'Search HathiTrust's digital library', a search button, and a sidebar with options like 'FULL-TEXT' and 'CATALOG'. Below the search bar, there are links for 'Advanced full-text search' and 'Search tips'. On the right side, there is a 'LOG IN' button and a section titled 'Want to get the most out of HathiTrust?' with instructions on how to access the library's resources.



# 3- Workshop...Training...Networking... bridge for interdisciplinary cooperation

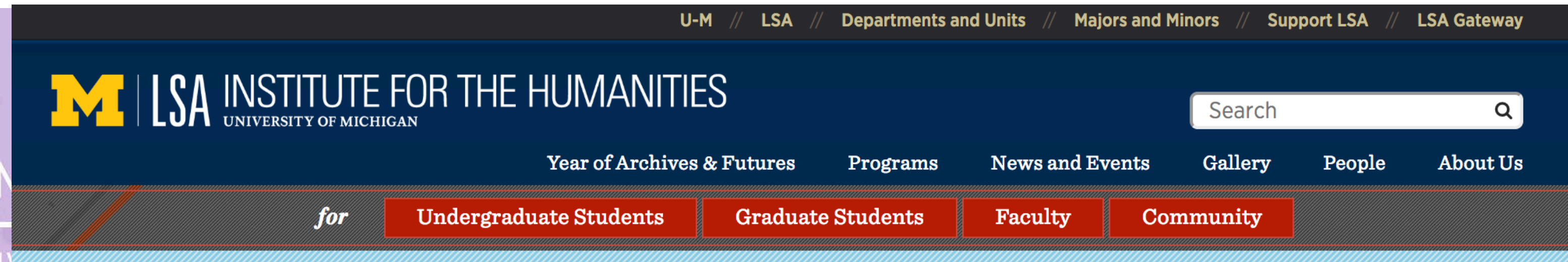


Home   Events & Training   People & Projects

Home > Events & Training > Training > Digital Humanities at Oxford Summer School

## Digital Humanities at Oxford Summer School

The annual Digital Humanities at Oxford Summer School offers training to a wide range of delegates including academics at all career stages, students, project managers, and professional staff. Delegates follow one of our parallel workshop throughout the week, supplemented by a series of lectures. Please see the previous years listed on the right-hand side for examples. Delegates can also join in an Oxford college on a first-come-first-served basis. Delegates can also join...



PROGRAMS | DIGITAL RESEARCH & PEDAGOGY | 2018 DIGITAL HUMANITIES SUMMER INSTITUTE

### PROGRAMS

- High Stakes Culture Series
- Author's Forum

## 2018 Digital Humanities Summer Institute

Now accepting applications from graduate students for grants to attend the Digital Humanities Summer Institute (DHSI) in Victoria, BC, Canada. The deadline for applications is October 6, 2017 at 5 pm.

NEWS + EVENTS

PROGRAMS

DIGITAL HUMANITIES

PUBLIC SCHOLARSHIP

APPLY FOR SUPPORT

ABOUT



### Fellowships

Society of Scholars

Home > Programs > Fellowships > Digital Humanities Summer Fellowships

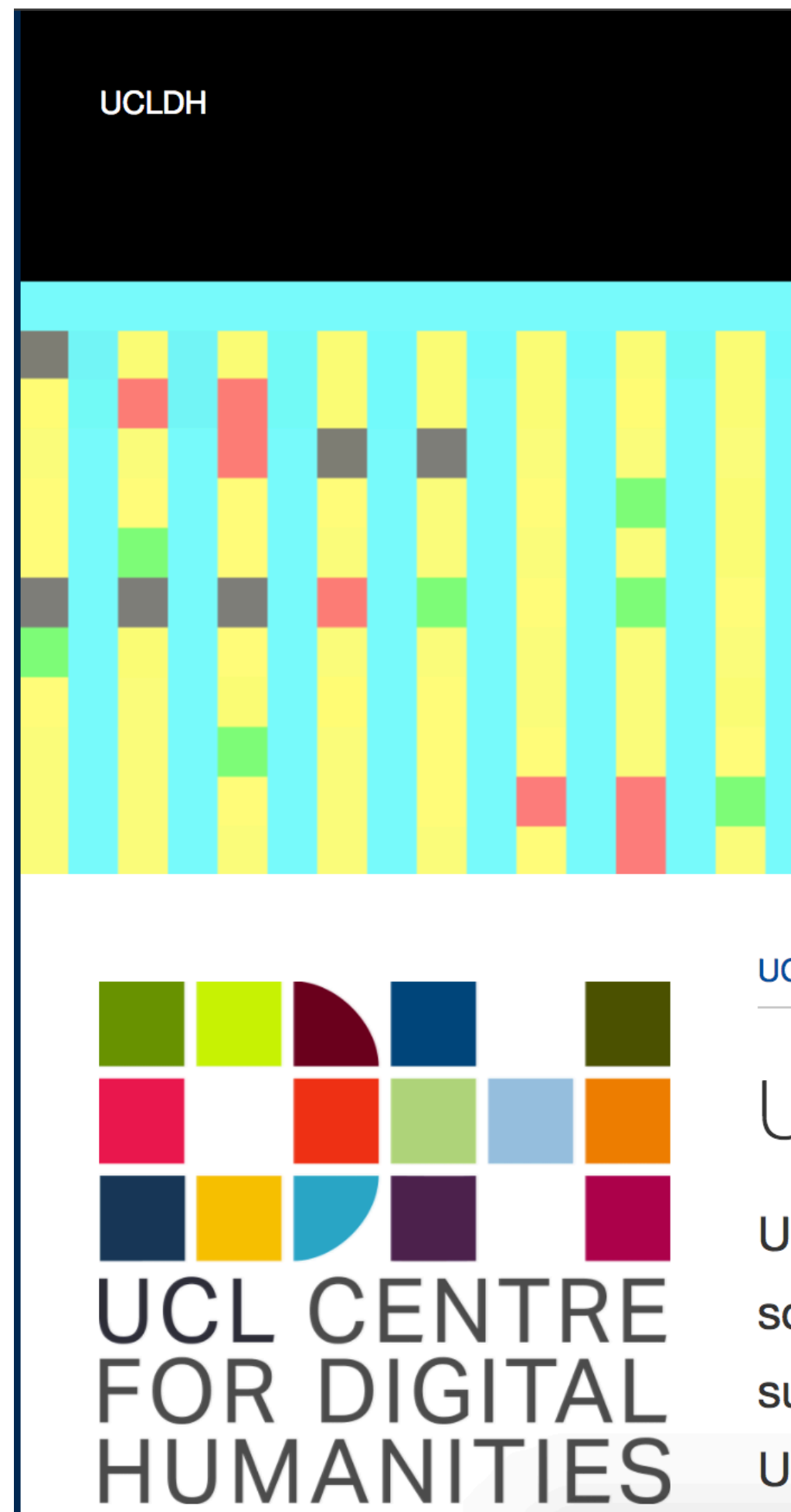
## Digital Humanities Summer Fellowships

Digital Humanities Summer Fellowships support scholars pursuing research projects that use digital technologies in innovative and intensive ways and/or explore the historical, social, aesthetic, and cross-cultural implications of digital cultures.



# 4. DH项目孵化器

## As an incubator for DH projects



- 
1. DH Scholarly Communication Platform  
建构“数字人文”国际学术交流平台
- 

**2016: 跨界与融合：全球视野下的数字人文**

**The 1<sup>st</sup> PKU DH Forum:**

**Crossing Boundaries & Engaging Communities:  
Digital Humanities in A Global Perspective**

1. Digital Humanities Concept and Practice
2. Linguistics and text processing, knowledge exploration
3. Historiography and deep excavation of large-scale historical materials
4. Art and data visualization



# Top Ten Hotspots of Chinese Humanities and Academics in 2016

文化周刊

## 10.新工具还是新范式? “大数据”走上人文研究的前台

2016年度中国人文学术十大热点

In 2016, several academic conferences such as **Peking University Digital Humanities Forum** focusing on various topics of DH and showed that **technologies** helps to solve the **long-term and long-span historical problems** and corrects the **“fragmentation” tendency**; while the open nature, crowd sourcing and other characteristics can promote the large-scale interdisciplinary collaboration of humanities research.”

在2016年，几场学术会议如**北京大学数字人文论坛**等，围绕数字人文的多个主题展开，展示了**技术**在解决**长期和长时段的历史问题**以及纠正**“碎片化”倾向**方面的作用。同时，开放、众筹等特性可以促进人文研究的**大规模跨学科合作**。

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# 2017: 互动与共生: 数字人文与史学研究

## The 2<sup>nd</sup> PKU DH Forum-Interaction & Coexistence: Digital humanities and Historical Research



Wech

**270+** attendees scholas

from all over the

1. 数字史学与量化史学
2. 数字工具与史学研究
3. 史学与历史文献数字整理
4. 史学研究数字环境与网络基础设施



# 2018: 孵化与实践：需求驱动下的数字人文项目

## The 3<sup>rd</sup> PKU DH Forum-Incubation and Application: How digital humanities projects Cater to Academic Needs

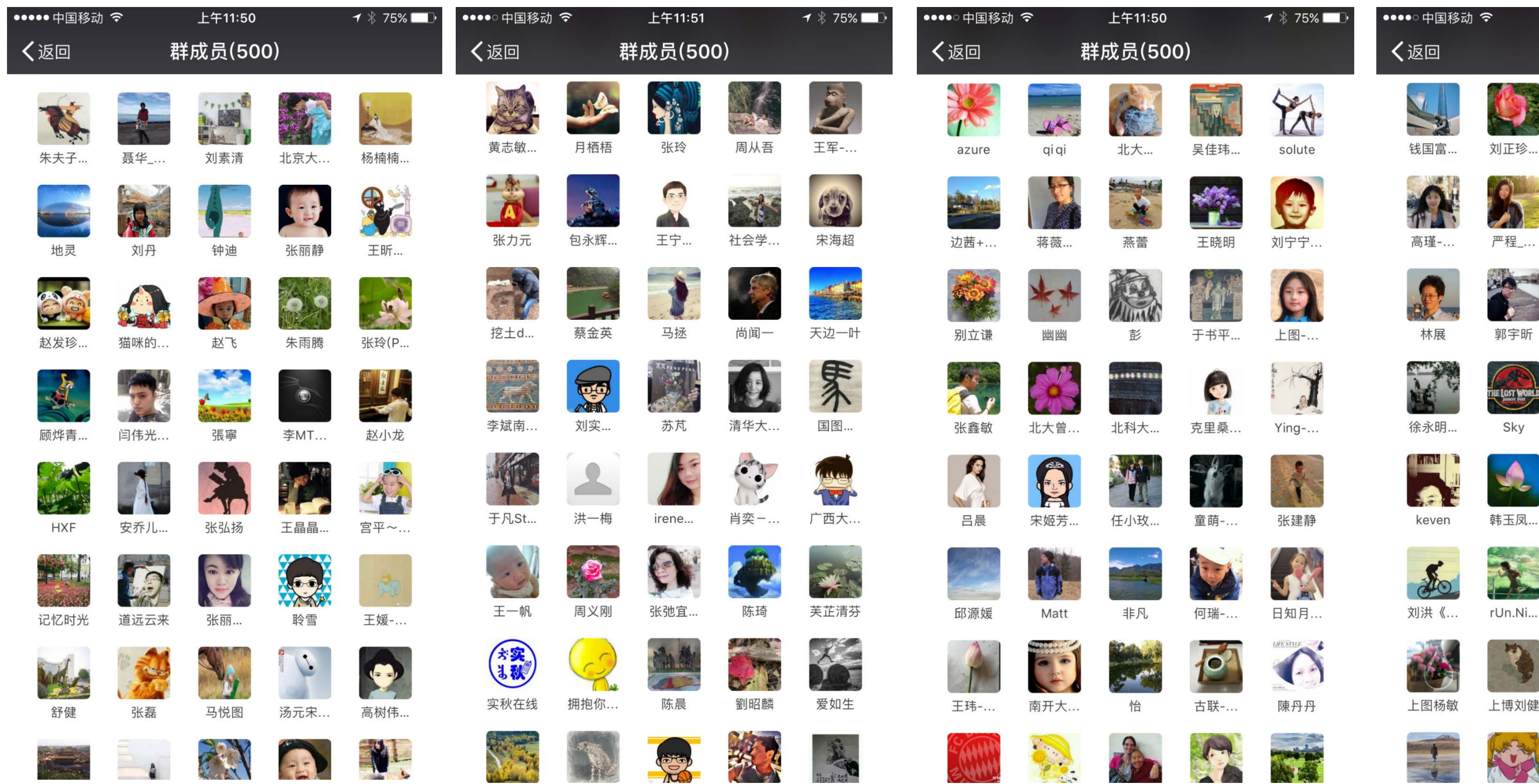


## Cooperation in & out:

1. School of Philosophy
2. Institute of humanities and social sciences
3. School of Information Management
4. School of History
5. CBDB China Group

1. Digital Humanities teaching and research
2. Practice and Reflection on DH Project Globally
3. Digital human technology, tools and infrastructure construction
4. Digitalization and representing of humanities literature and materials





## DHers Social Network: PKU WeChat Group

### 数字人文国际社交网学者网络

**800+** scholars, Researchers, Librarians, Archivists,  
And other stakeholders of DH from all over the world



# DH Social Media

**Simon Mahony @  
UCL Center for DH**



# Linguistic and Cultural Hegemony in the Digital Humanities

UCL Centre for Digital Humanities



## DH social media China

- WeChat groups
  - 数字人文1群|DH Group1, - 500 members
  - 数字人文2群|DH Group2, - 310 members
  - DH Global - 18 members
- Facebook
  - 數位人文研究 (Digital Humanities) - 280 members
- YouKu
  - Search: Digital Humanities, 数字人文 (not variants)



# History Bytes: Perspectives on the future of DH

Ben Alexander



## 3. Dhers' Academic Lectures 数字人文学者专场学术讲座

- 
1. Susan Schreibman, Maynooth Uni., Digital Humanities: New Methods, New Publics, New Responsibilities ;
  2. Peter K. Bol, Harvard, Digital Humanities in Higher Education
  3. J. Stephen Downie, UIUC, Digital humanities using both closed and open data: Use cases from the HathiTrust Research Center
  4. Simon Mahony , UCL, DH in UCL
  5. Ben Alexander, Harvard, History Bytes: Perspectives on the future of DH
  6. 黄一农, Taiwan Tsinghua U. , e考据与文史研究的新机遇



# GIS空间分析

Social Network Analysis

# GIS Analysis

社会网络研究

# Text Processing

文本处理与分析

## Workshop & Curriculums

1. Research skills and methods of DH
2. Social Network Analysis
3. Text Processing
4. GIS Analysis
5. Global DH Projects and Trends

- Faculty, Librarians and Students, In and out of the university
- Disciplines: Humanities, Information Management, Environment, Arts, etc.



# Workshop Feedback

## 数字人文工作坊反馈

if there was chance to attend the DH lectures again, such as the one on social relations Study of historical figures using Gephi Software. I still didn't get it and I still don't know how to use the specific software. It would be great if could recommend introductory books on learning these software and basic mathematics & statistics skill needed.

A Ph. D @ School of Arts

### 图书馆“一小时讲座”调查问卷

亲爱的读者：

您好！欢迎参加图书馆“一小时讲座”的问卷调查。本问卷仅作改进工作之用，不会泄露您的个人信息，请您放心。感谢您对我们工作的支持与合作！

#### 第一部分：基本信息

- 1、您所在的学校、院系：(A)
- A. 北京大学 艺院 学院/系所 B. 外校
- 2、您目前的学业阶段：(B)
- A. 本科在读 B. 硕士在读 C. 博士在读 D. 其他

#### 第二部分：关于本场讲座

- 3、您觉得本场讲座的内容：(B)
- A. 涵盖了所有我想了解的内容  
B. 涵盖了大部分我想了解的内容  
C. 只涵盖了小部分我想了解的内容  
D. 基本不是我想了解的内容，我觉得应该增加以下内容：

- 4、您觉得本场讲座的实用性如何？(A)
- A. 非常有用，解决了我在利用图书馆资源中遇到的问题  
B. 比较有用，部分解答了我的疑问  
C. 还算有用  
D. 没什么用

- 5、请留下您对本场讲座的宝贵意见和建议：

很好

#### 第三部分：关于“一小时讲座”

- 6、您最想听哪些主题的讲座，请推荐给我们：

想再听一下有关数字人文的讲座，比如上次讲到Gephi软件研究苏轼...社会关系的讲座没有太听懂，还是不太会应用具体的软件，希望讲座上能作者一些学习这些软件的入门书自包括需要的基础数学知识)



# PKU Digital Humanities Guidelines

## Columns :

- Conceptions about DH
- DH information from all over the world
- DH news and information in PKU
- SNA Special Topics
- DH Tools
  - Chinese Segmentation Tools
  - Google Earth Geo Space Analysis
- DH Experiences from DHers
- DH Projects incubator



# 数字人文指南

(第1期 创刊)

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- 2000: PKU Scholars
- 2001: PKU Thesis and Dissertations
- 2001: PKU Lectures Online
- 2003: Ancient Rare Materials Database
- 2004: Beijing Historical Geography Database
- 2007: University Digitization Center
- 2010: Dissertations of Yenching University
- 2011: Pre-1949 Periodicals and Newspapers

.....**what is next ?** .....





# 2014 PRDLA Annual Conference, Macau University

## Open Up Hidden Special Collections: Survey Response Summary and Observation

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- Open or not open? A willingness of open but still keep closed.....
- Collaboration or stay alone: A willingness of collaboration but lack of actions. **more collaboration between various stakeholders and more creative production and business models, not to say industries and libraries, libraries with libraries, consortiums with consortiums, etc.**
- Discovery: a COMMON platform for searching vs. a PRIVATE one
- Grouping: according to specialized collections or subjects

# Observation and perspectives



What next?

数字人文的制度化

## Institutionalizing Digital Scholarship or Anything Else New in a Large Organization

### 3 critical elements of institutionalization

Everyone prefers to talk about *innovation*, rather than *institutionalization*, but the former can only have a long-term impact if the latter occurs. What at first seems like a dreary administrative matter is actually at the heart of real and lasting change.

Dan Cohen



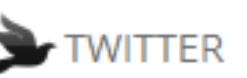
BIO



PUBLICATIONS



BEST OF THE BLOG



TWITTER



CV



RSS

Institutionalizing Digital Scholarship (or Anything Else New in a Large Organization)

November 29, 2017

I recently gave [a talk](#) at Brown University on "Institutionalizing Digital Scholarship," and upon

vision of its founder and the careful pursuit of opportunities related to that vision by scores of people over many years.

If you wish to digest the entire subject, please watch [my full presentation](#). But for those short on time, here are the three critical elements of institutionalization I concluded with. If all three of these challenging processes occur, you will know that you have successfully and fully integrated something new into an organization.



# What should and can Library do?

Institutionalizing in library & in University  
Fostering Research-oriented DH Projects  
DH Cyber infrastructure Development

.....

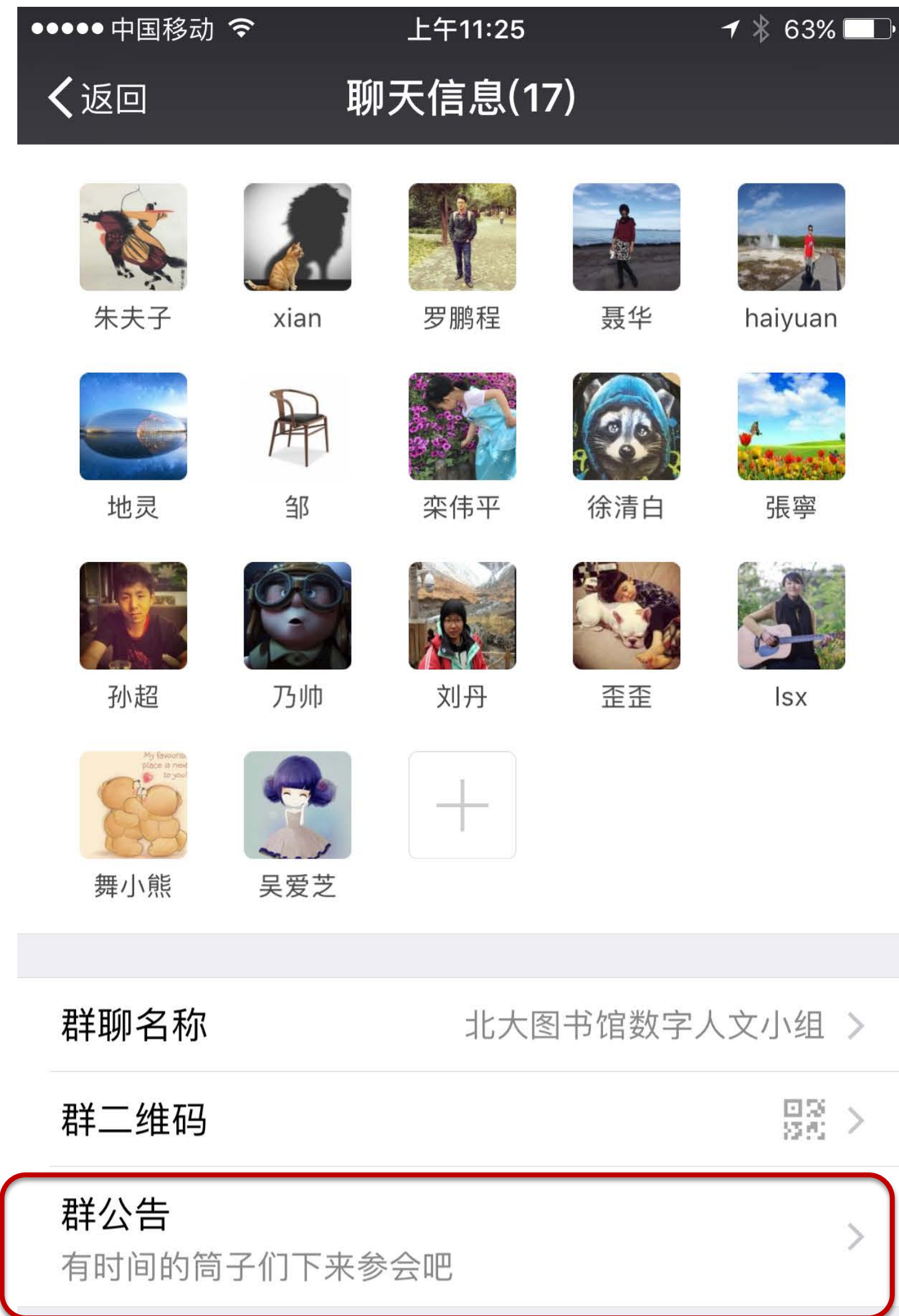
## Openness, Collaboration

4. Acting as an incubator for digital humanities projects



# PKU Library Digital Humanities Dream Team

## 北京大学图书馆数字人文团队





**My Question to You All:**

**How can the library serve the core missions of the Digital Humanities? What is your expectation and recommendation to the university libraries?**



—— 谢谢! Thank you! ——