Open Cultural Heritage Scholarship Workshop

Ritsumeikan University
Kyoto
24-28th June 2017

# Welcome

Open scholarship is commonly seen as a public good, and increasingly as a public right. Openness in research, when correctly mediated and supported, can have transformative effects. However, there are issues that commonly limit the realisation of benefits to open sharing of research – namely the digital divide, accessibility (e.g. in terms of disability), academic cultures of reward and recognition, and models for funding research and publication. Increasingly there are also political agendas that do not reflect this idealised perspective or the premise of the value of higher education. Therefore this workhop is reflecting on the context of open cultural heritage scholarship. It will also seek to bring together experts problematizing the idea of open cultural heritage scholarship as a necessary good, considering issues such as the embedding of bias in open data or the co-construction of knowledge.

Activities by the Open Data Institute (UK) have demonstrated the global economic potential of monetising open data. In turn activities pioneered by Southampton are continuing to identify economic opportunities for businesses, mobilising what might be described as an open scholarship spectrum, from mass broadcast to personal research. Open scholarship implies new higher education and business models, considering complex issues such as licensing and cultural sensitivity and sustainability. Cultural heritage business is wrestling with the opportunities and risks of increasing openness of data e.g. our own work on personal 3d printing and its implications for museums. We contend that open scholarship can enhance the core revenue of these businesses, offsetting lost licensing revenues. We also believe that such activities support accessibility to cultural heritage and engage non-traditional demographics.

Whilst we would argue that knowledge should be accessible, it should also be valued, exchanged and earned: this then presents an opportunity for entrepreneurial cultural heritage industries and for the creative digital sector. Activities by the Open Data Institute (UK) have demonstrated the global economic potential of monetising open data. In turn activities in many higher education and memory institutions are identifying economic opportunities for businesses mobilising open education (e.g. via Massive Open Online Courses), open research data, citizen science and through connections to broadcast media. Open scholarship also requires sharing of practices around data governance, exemplified in the area of cultural property, and engagement with relevant authorities. These issues and activities exceed national borders and the capabilities of any one organisation to supply even a small fraction of the solutions. Open scholarship serves as a growing disrupting influence, with activities such as open sharing of research data as they are generated, through provision of open tools and workflow documentation, and mediated citizen science research. Pressure from funding councils, charities and national agencies for open access is also supporting a parallel revolution in open education. This perfect storm, or as some have described it, an "avalanche", is impacting strongly across the higher education community. Through this workshop we are seeking to interrogate concrete examples of supporting and benefitting from open scholarship, in the context of (digital) cultural heritage.

# Open Cultural Heritage Scholarship Organisers

Professor Graeme Earl, University of Southampton

Professor Keiji Yano, Ritsumeikan University

Professor Ian Haynes, Newcastle University

Dr Martyn Dade-Robertson, Newcastle University

Eleonora Gandolfi, University of Southampton

Yoko Fukatsu, Ritsumeikan University

# Working Group includes:

Professor Sidney C. H. Cheung, Chinese University of Hong Kong

Professor Kodzo Gavua, University of Ghana

Dr Rebecca Simone Phillipps, University of Auckland

Professor Hussein Suleman, University of Cape Town

Professor Sally Wyatt, Maastricht University

Professor Yunxia Wang, Renmin University

Professor Renato Perucchio, University of Rochester

# Funding

# Workshop Themes

The workshop is structured around a series of interconnected themes:

1. Barriers and criticisms of cultural heritage open scholarship
2. Business models for cultural heritage open scholarship in HE and private sector, including cultural tourism
3. Designing and linking the (social) open scholarship spectrum
4. Open access and alternative publication models for cultural heritage
5. Open cultural heritage education
6. Open geospatial in cultural heritage
7. Open government and research data and cultural heritage
8. Open scholarship and visualisation
9. Open scholarship, privacy and ethics

Roman and Japanese heritage will provide a backdrop and examples within the discussions, whether in terms of current practice or potentials, alongside cultural heritage expertise from the global contexts represented by the participants. We hope to have input from Japanese organisations engaged in cultural heritage of all kinds, and including Japanese open educators.

The workshop organisers and participants also bring expertise in digital aspects of Roman archaeology, and cultural heritage computation more generally. Workshop attendees will be expected to consider research accessibility during and after the activities in Kyoto, including practical accessibility (e.g. open access publication; digital accessibility in terms of varying physical, cognitive and economic abilities) and intellectual accessibility (e.g. open education and citizen science).

# Whole Conference at a glance

**Art Research Centre,
Kinugasa Campus (KIC), Ritsumeikan University**

| Time | |
|---|---|
| 09:30–10:00 | Registration |
| 10:00-10:10 | **Opening remark** |

| | |
|---|---|
| 10:10 | Mr Masaaki Iwamoto, University of Kyushu |
| | *Digi-fab Urban Village Project: Personal Digital Technologies for Fabricating Low Cost Settlements in Southeast Asia's Urban Periphery* |
| 10:20 | Dr Christopher Leyland, Newcastle University |
| | *Social Interaction in multilingual, multicultural contexts* |
| 10:30 | Ms Yuting Song, Ritsumeikan University |
| | *Finding the Identical Records across Multiple Digital Collections in Different Languages* |
| 10:40 | Mr Fumiyasu Makinoshima, Tohoku University |
| | *Disaster archive: Controversy, efforts and challenges* |
| 10:50 | Ms Mirna Carolina Valladares Celis, University of Bristol |
| | *Development of intercultural competence among Mexican and Spaniard children through open software* |
| 11:00 | Prof. Keiji Yano, Ritsumeikan University |
| | *Virtual Kyoto Platform* |
| 11:10-11:30 | **Break** |
| 11:30 | Ms Isabel Drury, FutureLearn |
| | *Open Cultural Heritage Education on FutureLearn* |
| 11:40 | Prof. Graeme Earl, University of Southampton |
| | *The Portus Project: Opening Up to Open* |
| 11:50 | Ms Eleonora Gandolfi, University of Southampton |
| | *#Open @UoSFLPortus & compulsory-age #education* |
| 12:00 | Dr Biligsaikhan Batjargal, Ritsumeikan University |
| | *Providing Bilingual Access to Early Japanese Book Databases – Utilization of Linked Open Data* |
| 12:10 | Mr Dan Brown, University of Liverpool |
| | *Archaeology, Visualising BIG Data, and Open Scholarship* |
| 12:20 | Prof. Yunxia Wang, Renmin University |
| | *Cultural Heritage Education and Open Resources* |
| 12:30 | Prof. Ian Haynes, Newcastle University |
| | *Visualisation, Provocation and Open Scholarship – Experiences from the Roman Frontier* |
| 12:40-13:40 | **Lunch** |

| | Multipurpose Studio | Meeting Room 1 |
|---|---|---|
| 13:40 | Prof. Kozaburo Hachimura, Ritsumeikan University | Dr Martyn Dade-Robertson, Newcastle University |
| | *Digital Archiving of Intangible Cultural Properties* | *The Architecture of Information* |
| 13:50 | Dr Liang Li, Ritsumeikan University | Dr Scott Mc Laughlin, University of Leeds |
| | *Virtual Yamahoko Parade Experience System* | *Open Data at Leeds* |
| 14:00 | Dr Asanobu Kitamoto, National Institute of Informatics | Dr Gerasimos (Jerry) Spanakis, Maastricht University |
| | *Introduction of Activities in Center for Open Data in the Humanities (CODH) Including Memory* | *Open access infrastructure and publication models in Netherlands* |
| 14:10 | Mr Daniel Pett, British Museum | Mr Shang Li, Kyushu University |
| | *The digital museology start-up* | *Archive with the use of Immersion VRc* |
| 14:20 | Mr Grant Cox, ArtasMedia | Dr Hussein Suleman, University of Cape Town |
| | *ArtasMedia Showcase* | *Designing Archives for Multiple Modes of Access* |

|  | Multipurpose Studio | Meeting Room 1 |
|---|---|---|
| 14:30 | Prof. Koichi Hosoi, Ritsumeikan University<br>*Virtual exhibition of Japanese cultural assets* | Goki Miyakita, Keio University<br>*Exploring Japanese Culture through Keio University's Pre-Modern Japanese Book Collection* |
| 14:40 | Mr Ryuichi Kamo, Toppan Printing<br>*Digitalisation of cultural heritage and VR contents* | Ms Rebecca Ferderer, Nagoya University<br>*Consuming Cultural Heritage* |

| 14:50-15:20 | **Break** |
|---|---|
| 15:20 | Mr Adam Procter, University of Southampton (07:20 London time)<br>*Platforms Ethics and Privacy when Open meets surveillance Capitalism* |
| 15:30 | Dr Stuart Dunn, King's College London (07:30 London time)<br>*When crowdsourcing becomes co-production: 'super-contributors' and their role(s) in open scholarship* |
| 15:40 | Dr Rebecca Philipps & Mr Joshua Emmitt, University of Auckland (18:40 Auckland time)<br>*A.R.C.I. : Archaeological Data Management in Aotearoa New Zealand* |
| 15:50 | Prof. Keiji Yano, Ritsumeikan University<br>*Introduction of Day 2: Byodoin Temple, Nagae Family Residence and Kyoto Asny* |

| 16:00-16:30 | **Break** |
|---|---|
| 16:30-17:00 | **Public Lectures:**<br>Dr Kinda, Kyoto Institute (Emeritus Professor, Kyoto University)<br>*Some projects for digitalizing historical materials and books in Japan* |
| 17:00-18:00 | Dr Eric Kansa, UC Berkeley<br>*Archaeology and Humanizing Big Data*<br><br>*Abstract:*<br>In May 2017, The Economist declared that "the world's most valuable resource is no longer oil, but data" to 21st century economies. Universities, corporations, and governments all now see Big Data as strategic to competitiveness. Big Data, as typically imagined, tends to require and reinforce institutional and information centralization. However, as is the case with much of the humanities and social sciences, many forms of archaeological data are small but complicated and collected under very different conditions and sampling protocols. Since our data are highly contextual, meaningfully aggregating data offers many methodological and interpretive challenges.<br>Navigating these challenges requires much broader and deeper intellectual engagement in data. Achieving scale while respecting context will likely require an incremental, "Slow Data", approach. It will also require new modes of scholarly practice that formalize contestable interpretive judgments explicitly, especially as Linked Data, and emphasize more openness, collaboration and reproducibility. Archaeology is high transnational and dependent on multidisciplinary collaboration across the humanities, social sciences and natural sciences. As such, it is ideally situated to lead in the humanization of data. |
| 18:15-19:30 | **Reception** |

## SUNDAY 25 JUNE, 2017

### Heritage Sites Visit

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|---|---|
| 08:45 | Leave hotel (meet at the hotel reception at 08.35) |
| 09:30-11:00 | Byodoin-temple and the museum (incl. guided tour of the main hall) |
| 11:30-12:30 | Lunch at Kyo-wasabi |
| 13:00-14:00 | Nagae Family Residence – a demo of AR by Fujitsu & Daitec |
| 14:20-14:50 | Kyoto Asny |
| 15:00-17:00 | Nijo Castle |
| 17:30 | Optional 17:30- The Museum of Kyoto |

## MONDAY 26 JUNE, 2017

### Library Conference Room,
### Kinugasa Campus (KIC), Ritsumeikan University

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|---|---|
| 10:00-11:00 | Memory Hunting Workshop- led by Dr. Kitamoto (will be postponed to Tuesday 27 June in case of rain) |
| 11:00-11:10 | **Break** |
| 11:10 | Dr Fukuda, Ritsumeikan University<br>*Designing LOD for digital game* |
| 11:20 | Dr Dowon Kim, Ritsumeikan University<br>*Protection of Cultural Heritage from Disasters: Outline of the protection system and disaster risk reduction of Japanese Cultural Heritage* |
| 11:30 | Prof. Satoshi Tanaka, Ritsumeikan University<br>*Visualization and Virtual Reality of 3D Cultural Heritage Objects based on their Laser-scanned Data* |
| 11:40 | Dr Zengxian Li, Ritsumeikan University<br>*Wakokubon: Mirrors of Devotion, Artistic.* |
| 11:50 | Ms Rosie Brigham, UCL<br>*Crowdsourcing conservation* |
| 12:00 | Prof. Sidney C. H. Cheung, Chinese University of Hong Kong<br>*Cultural Heritage for Knowledge Transfers in Hong Kong* |
| 12:10 | Dr William N Gblerkpor, University of Ghana<br>*Ghana Digital Heritage Initiative and Community Archaeology* |
| 12:20 | Ms Yu Homma, Keio University<br>*Digital Archive of Media Arts* |
| 12:30-13:30 | **Lunch** |
| 13:30 | Mr Shigekazu Nagamune, Kyoto Asny<br>*Taking on the Challenge of Visualizing a Multi-Layered Kyoto: Representing Aspects of Historical Periods* |
| 13:50 | Mr Satoshi Tarashima, Tokyo National Museum<br>*Digitalization of Research Resource at Tokyo National Museum* |
| 14:10 | Mr Hirokazu Nakamura & Mr Toshio Yamamura, Fujitsu & Daitec<br>*ICT for Heritage* |
| 14:40 | Mr Tsuyoshi Nishiyama, The Museum of Kyoto<br>*Developing a Workshop Based on the View Around Seigan-ji Temple* |
| 15:00 | Dr Scott Mc Laughlin, University of Leeds<br>*The importance of Open-ness in the Art Music Ecosystem* |
| 15:10-15:30 | **Break** |

| 15:30 | Mr Daniel Pett, British Museum |
|---|---|
| | *Challenging the British Museum with openness* |
| 15:40 | Mr Grant Cox, ArtasMedia |
| | *Open Vs Closed ArtasMedia* |
| 15:50 | Mr Atticus Sims, Kyoto VR |
| | *Building a Virtual Kyoto: A model for digital heritage preservation through the tourism industry* |
| 16:10 | Dr Masaru Tsuchida, NTT Communication Science Lab. |
| | *7-band 18 Giga-pixel Image Archiving of Folding Screen and Its Applications* |
| 16:30 | Mr Bruno Martelli, Gibson / Martelli |
| | *Data journey* |
| 16:40 | Ms Isabel Drury, FutureLearn |
| | *Open Access on FutureLearn: bringing the university to the world* |
| 16:50 | Ms Laura Hilliger, We are Open |
| | *Comfortable Chaos: Managing an Open Project* |
| 17:00 | Mr John Bevan, We are Open |
| | *Communities build culture* |
| 17:10 | Dr Stuart Eve, L - P : Archaeology |
| | *Approaching Open Scholarship in the Commercial Archaeology Environment* |
| 17:20 | Prof. Ian Haynes, Newcastle University |
| | *Visualisation: Challenges and opportunities for Open Scholarship – Partnerships and Potential Directions* |
| 17:30 | Dr Martyn Dade-Robertson, Newcastle University |
| | *Mapping Cultural Associations: A case study of the Amber Collective* |
| 17:40 | Dr Eric Kansa, UC Berkeley |
| | *Issues in Sustaining Open Data in Archaeology* |
| 17:50-18:00 | **Summary and closure of the day** |

## TUESDAY 27 JUNE, 2017

### Library Conference Room, Kinugasa Campus (KIC), Ritsumeikan University

| 10:00-11:00 | Thinkathon or Memory Hunting Workshop- led by Dr. Kitamoto (back up) |
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| 11:00-11:10 | **Break** |
| 11:10-12:30 | Thinkathon |
| 12:00-13:30 | **Lunch** |
| 13:30-15:00 | Thinkathon |
| 15:00-15:30 | **Break** |
| 15:30-17:00 | Prof. Graeme Earl, University of Southampton |
| | *Developing priorities for future projects* |

## WEDNESDAY 28 JUNE, 2017

### Library Conference Room, Kinugasa Campus (KIC), Ritsumeikan University

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|---|---|
| 10:00-10:30 | Mr Joseph Robertson, British Consulate-General Osaka<br>*Sources of funding for UK-Japan collaboration* |
| 10:30-12:00 | Project development and funding "sandpit" |
| 12:00-13:30 | **Lunch** |
| 13:30-15:00 | Project development and funding "sandpit" |
| 15:00-15:30 | **Break** |
| 15:30 -17:00 | Feedback session |
| 17:00 | Workshop close |

> ✧ During lunch breaks, it is possible to visit the Golden Pavilion (Kinkakuji Temple) or Ryoanji Temple (a Zen temple with a famous rock garden) which are both 10-15 minute walk from the campus.

# Workshop Participants/ Collaborators

| Name | Affiliation | Position |
| --- | --- | --- |
| Grant Cox | ArtasMedia | CEO |
| Joseph Robertson | British Consulate-General Osaka | Science & Innovation Officer |
| Ayako Towtari | British Council Japan | Projects Manager (Education) |
| Daniel Pett | British Museum | ICT Adviser, Department of Portable Antiquities and Treasure |
| Prof. Sidney C.H. Cheung | Chinese University of Hong Kong | Professor, Department of Anthropology, Director, BA Programme of Cultural Management, Associate Dean (Education), Faculty of Arts |
| Toshio Yamamura | Daitec | Chief Marketing Executive |
| Robert Lloyd Morris | Daitec | |
| Hirokazu Nakamura | Fujitsu | Senior Director, Partner Alliance, Product Strategy & Planning Office |
| Isabel Drury | FutureLearn | Digital content specialist working in education technology |
| Bruno Martelli | Gibson / Martelli | Artist |
| Goki Miyakita | Keio University | Research Student |
| Yu Homma | Keio University Art Center | Archivist and Curator |
| Dr Stuart Dunn | King's College London | Lecturer in Digital Humanities |
| Shigekazu Nagamune | Kyoto Asny | Chief Consultant |
| Prof. emeritus Akihiro Kinda | Kyoto Institute, Library and Archives | Director (Emeritus Professor, Kyoto University) |
| Atticus Sims | Kyoto VR | CEO |
| Luke Fujii | Kyoto VR | PR |
| Dr Masaaki Iwamoto | Kyushu University | Assistant Professor |
| Shang Li | Kyushu University | 3rd year PhD student |
| Dr Stuart Eve | L - P : Archaeology | Partner |
| Dr Gerasimos (Jerry) Spanakis | Maastricht University | Assistant Professor, Department of Data Science and Knowledge Engineering |
| Rebecca Ferderer | Nagoya University | 2nd year PhD student |
| Dr Asanobu Kitamoto | National Institute of Informatics | Associate Professor |
| Dr Christopher Leyland | Newcastle University | Lecturer of Applied Linguistics |
| Dr Martyn Dade-Robertson | Newcastle University | School of Architecture, Planning & Landscape |
| Prof. Ian Haynes | Newcastle University | School of History, Classics and Archaeology |
| Dr Masaru Tsuchida | NTT Communication Science Lab. | Multispectral and Giga-Pixels Imaging Technology |
| Prof. Yunxia Wang | Renmin University of China | Professor of History of Law |
| Yi Wang | Renmin University of China | PhD student, currently studying at the University of Tokyo |
| Dr Liang Li | Ritsumeikan University | Lecturer |
| Yuting Song | Ritsumeikan University | PhD |
| Prof. Koichi Hosoi | Ritsumeikan University | College of Image Arts and Sciences, |

| | | |
|---|---|---|
| **Prof. Satoshi Tanaka** | Ritsumeikan University | College of Information Science and Technology , Art Research Center |
| **Prof. Kozaburo Hachimura** | Ritsumeikan University | College of Information Science and Technology, Art Research Center |
| **Dr Biligsaikhan Batjargal** | Ritsumeikan University | Senior Researcher |
| **Dr Zengxian Li** | Ritsumeikan University | Senior Researcher |
| **Dr Dowon Kim** | Ritsumeikan University | Associate Professor |
| **Dr Kazufumi Fukuda** | Ritsumeikan University | Senior Researcher, Kinugasa Research Organization |
| **Prof. Keiji Yano** | Ritsumeikan University | Department of Geography |
| **Daisuke Hanamura** | Ritsumeikan University | Program coordinator |
| **Yoko Fukatsu** | Ritsumeikan University | Program coordinator |
| **Tsuyoshi Nishiyama** | The Museum of Kyoto | Curator |
| **Fumiyasu Makinoshima** | Tohoku University | 2nd year PhD student |
| **Dr Satoshi Tarashima** | Tokyo National Museum | Supervisor, Informatics |
| **Ryuichi Kamo** | Toppan Printing | Division Head, Cultural Project Division |
| **Dr Eric Kansa** | UC Berkeley | Open Context Program Director; Researcher at UC Berkeley, D-Lab |
| **Rosie Brigham** | UCL | MRes Student |
| **Dr Rebecca Phillipps** | University of Auckland | Lecturer Anthropology |
| **Mirna Carolina Valladares Celis** | University of Bristol | 1st year PhD student |
| **Dr Hussein Suleman** | University of Cape Town | Head of Department of Computer Science, Associate Professor |
| **Dr William N Gblerkpor** | University of Ghana | Lecturer, Department of Archaeology and Heritage Studies |
| **Dr Scott Mc Laughlin** | University of Leeds | Lecturer in Composition and Music Technology |
| **Dan Brown** | University of Liverpool | PhD student |
| **Dr Adam Procter** | University of Southampton | Programme Leader |
| **Prof. Graeme Earl** | University of Southampton | Professor of Archaeology |
| **Eleonora Gandolfi** | University of Southampton | International Partnerships Manager |
| **Laura Hilliger** | We are Open | |
| **John Bevan** | We are Open | |