Department of Engineering and Architecture

FAIR Research Data Management

Study School

Parma, 1 - 5 July 2019

1. Theme: Data stewardship

Data stewardship is defined as:

"The process and attitudes that makes one deal responsibly with one's own and other people data throughout and after the initial scientific creation and discovery cycle".

The focus of the FAIR Data Management Study School at Parma University will be on the FAIR principles related to **interoperability** and **re-using** research data.

Staff will acquire knowledge, expertise and practical experience in following outcomes:

1. Planning a Research outputs management campaign
2. Reusing research data for the full research lifecycle

A Laboratory on Data carpentry is planned on 4-5 July.

Other optional activities include staff doing visits to universities libraries managing research data in Bologna and (virtually) in Venice.

2. Venue

MAP

Main Teaching Building of the School of Engineering (Sede Didattica di Ingegneria)

University of Parma, Campus of Science and Technology

Parco Area delle Scienze, 69/A (in front of last bus 7 or 21 stop)

43124 Parma

Room: Teaching room N. 9

3. Agenda

Each day will be an appropriate mixture of lectures, independent learning, group work and participant presentation. Each day will start at 9.30 am and finish at 16.30 pm (Italy time). There will be no less than one hour for lunch, usually at 1.00 - 2.00 pm

Arrival on Sunday 30 June 2019

![ROMOR - Research Output Management through Open Access Institutional Repositories in Palestinian Higher Education Institutions]

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Monday 1st July

9.30-11.00	*Welcome, Introduction to the Study School, Data stewardship core* *Stefano Caselli, Anna Maria Tammaro, Janet and David Anderson*
11.30– 13.00	*Data Stewardship (1): Introduction and Overview of FAIR* Peter Burnhill
14.00– 15.30	*Data Stewardship (2): Focus on the Data User. Provision for Access. Relationship to Articles, Books and Web resources* *Peter Burnhill*
15:30-16:30	Group work This is a group task and the results will be submitted by mail on July 10

Tuesday 2 July

9.30–11.00	*Behaviours and Technical Recommendations of the COAR Next Generation Repositories Working Group - Part 1 - Behaviours* *Behaviours and Technical Recommendations of the COAR Next Generation Repositories Working Group - Part 2 - Technologies and Implementations* Susanna Mornati
11.30– 13.00	*OpenAIRE and RDA: community driven tools and support for research data access and reuse* Emma Lazzeri
14:00-16:30	*Library system organisation for RDM: University of Bologna* Marialaura Vignocchi (voluntary participation - to be confirmed)

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Wednesday 3 July

9.30– 11.00	*Copyright, creative commons, privacy issues for research output management*
11.30-13.00	Janet Anderson and David Anderson

Data stewardship (3). Use, preservation and citation of 'web resources': a look into the future
Peter Burnhill |
| 14.00–15:00 | *Single point of entry: RDM management at University of Venice*
Marisol Occioni (Videoconference) |
| 15:00-16.30 | Group work |

Thursday-Friday 4-5 July

Data carpentry Group work

Marianne Corvellec, Nilani Ganeshwaran

Day 1:

9:30 am-1 pm : *introduction to data, and best practices in using spreadsheets*

 2 pm-4:30 pm : *cleaning data with openrefine*

Day 2:

9:30 am - 1 pm : *introduction to R for data analysis*

2 pm - 4:30 pm : *using R for data visualization and generating reports*

More information at: http://fair-rdm.unipr.it

4. Speakers

 Anderson Delve Janet	Janet Anderson (PhD. History of Mathematics): Professor of Digital Humanities at the University of Brighton, a field she has been researching for the last 20 years, developing fundamentally new methods/technologies to keep alive our digital cultural heritage: digital art, computer games or 3D models of archaeological sites. Her interests lie in digital archiving, using Big Data techniques for archiving databases. She was the Co-ordinator of the European Commission E-ARK project (2014-2017), developing a digital archiving infrastructure and standards for national archives, governments and business. She also researches using emulation to replicate old computing platforms as a digital preservation strategy.
 Anderson David	David Anderson (Ph.D. artificial intelligence) is Professor of Digital Humanities at the University of Brighton where he leads the Cultural Informatics Research and Enterprise Group (CIREG). He is editor-in-chief of the New Review of Information Networking, and member of the International Federation of Information Processing (IFIP) Panel (9.7). David coordinated the quality control and wrote the extensive legal study for the E-ARK project. He was the PI at the University of Portsmouth for the FP7 KEEP project, and was Co-PI on the JISC-POCOS project on preserving complex digital objects. David has authored five books and numerous articles on computing and digital preservation, and wrote the KEEP layman's guide to the legal studies. David is Treasurer and Secretary of the DLM Forum.
 Burnhill Peter	Peter served as Director of EDINA and as the first Director of the Digital Curation Centre (DCC) as part of a varied 38-year career at the University of Edinburgh. Having background as a statistician, researcher and senior lecturer, he strayed into information science. He is a Past President of IASSIST and an honorary Fellow of the Royal Scottish Geographic Society. Contributions include leading the set-up of the world's first national online mapping system for university staff and students (Digimap) and the first UK serials union catalogue (SUNCAT). He has also helped ensure continuing access and integrity of the digital scholarly record, as a founder member of CLOCKSS, through the Keepers Registry of preserved e-serials and in research to highlight the threat and potential remedy for 'reference rot'. Now with more time available he is keen to share expertise and experience more widely, as well as carrying out his own research into the use of contemporary sources now found online for historical enquiry, such as the impact of C19th socio-demographic change, locally and globally.

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Caselli Stefano	Professor of Computer Engineering at the University of Parmasince 2000. Director of the PhD School in Engineering and Architecture since 2014, with extended prior experience as chairman of undergraduate and graduate degrees in Computer, Electronics, and Communication Engineering. Designated representative of the University of Parma in the Scientific Committee of the Digital Agenda of Regione Emilia-Romagna during the previous regional legislature. I enjoy lecturing in classroom, advise students, and observe over the years their cultural and professional growth, before as well as after their graduation. I also promote placement of graduates in ICT engineering in local firms (indeed an easy task) to cater local development. Starting from a long standing research interests in robotics and machine intelligence, I have been involved in the challenges of modern Agriculture 4.0, including its quest for smart, sensor-driven irrigation equipment optimizing water usage. As ROMOR project coordinator for the University of Parma, I am delighted by the success of the project in the Palestinian partner universities and I promote its key concepts among PhD students and young researchers in my own University.
Ganeshwaran Nilani	I am a Digital Library Applications software developer working at the University of Manchester Library. I work very closely with librarian on a day to day basis and have good understanding of how much of their day job can be improved by the software skills covered by the library carpentry lessons. My connection with software and data carpentries began a few years ago through my involvement in digital scholarship as part of the current role. Library carpentry was beginning to emerge at that time; I was fascinated by the idea and looked for the possibility to introduce the concept at Manchester. I am now a certified carpentry instructor, taught carpentry lessons for our librarians. I am very interested in bringing Library carpentry higher up the agenda, demystifying the concept for librarians and increasing their participation.
Lazzeri Emma	Emma Lazzeri is Researcher at The Institute Information Science and Technologies of the Italian National Research Council in Pisa Italy. She is Open Science manager working on defining strategies, tools and in disseminating Open Science. She is one of the Italian National Open Access Desks (NOADs) of OpenAIRE and contact point for the Italian Research Data Alliance Node. She is involved also in EOSCSecretariat.eu, a EU funded project that supports the European Open Science Cloud (EOSC) governance and co-creation. She is member of the Open Science Monitor Expert Group of the European Commission. Her research interests are in Open Science, including policies, best practices, strategies. She holds a PhD in Innovative technology - Telecommunications from Scuola Superiore Sant'Anna, Pisa Italy and a MSc and BSc in Telecommunication engineering from Università di Pisa, Italy.

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Marianne Corvellec	Marianne Corvellec has worked as an industry data scientist since 2015, specializing in the Tidyverse (R) and SciPy (Python) stacks. A Physics PhD, she left academia in 2013 to join the vibrant Montreal startup scene. Notably, she worked with Plotly as a developer. A certified instructor with the Carpentries, she speaks or teaches at local and international events on a regular basis. She is an advocate of free software and open standards.
Mornati Susanna	Susanna Mornati is COO at 4Science, Italy. She has extensive experience in the design and implementation of information systems for research, gained in thirty years spent at the University of Milan, CERN and university consortia for ICT. With her vast expertise in the research domain, in 2015 she directed the program of implementing DSpace-CRIS (IRIS) at 67 Italian HE and research institutions and the IRIDE project for ORCiD adoption at the national level in Italy. Both projects involved over 60,000 researchers and were successfully achieved in just a few months. Susanna has gained an international reputation in the Open Science communities, participating in scientific boards and committees, and a speaker at numerous events. She is a member of the Research Data Alliance (RDA), the COAR Controlled Vocabularies Board, the DSpace Leadership and Steering Groups, the euroCRIS CRIS-IRs Task Group, the Italian Association for Open Science (AISA), the Italian Open Science Support Group (IOSSG).
Occioni Marisol	Director of the Digital Library of the Ca' Foscari University of Venice, collaborates in the management of the institutional repository and Phaidra, a platform for long-term archiving and dissemination of the University digital collections. Supports researchers in Open Science and she is member of the Ca'Foscari Data Monitoring Board. Member of AISA (a non-profit organization that undertakes to advance open access to knowledge) and IOSSG, Italian Open Science Support Group.

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Tammaro Anna Maria	Anna Maria Tammaro has been teaching at the International Master in Digital Library Learning (DILL), joint Master of Tallinn University and University of Parma until 2018. She has been the President of Open Edition Italy and of the Interdepartmental Centre UNIPR CoLab. She is an international librarian, collaborating with IFLA, ASIS&T and EUCLID (European Association of LIS teachers). She is member of Open Education Italy. You can read her Blog "Bibliotecari internazionali" here: http://annamariatammaro.wordpress.com. Homepage: https://works.bepress.com/annamaria_tammaro
Vignocchi Maria Laura	Head librarian of the Digital Library of the University of Bologna – AlmaDL - since 2006, her main interests are in digital libraries, institutional repositories, scholarly communication, library publishing services, Open Access and Open Science. She is a member of the Open Access Working Group of the Conference of the Rectors of the Italian Universities and a member of the informal Working Group IOSSG (Italian Open Science Support Group). In the last five years she has been focusing on research data management and sharing while exploring the impact of FAIR data principles on research praxis and university support services and infrastructures.

5. Arrival Info

How to reach Parma:

- Airport -> shuttle bus (or taxi) to railway station -> train to Parma railway station -> taxi (or city bus) in Parma. As an alternative, visitors could rent a car at the airport and then reach Parma directly.
- The closest airports are Bologna and Milan Linate. Milan Malpensa and Milan-Bergamo Orio al Serio are quite farther. From any of these airports, visitors should reach the railway station using a shuttle bus (or a taxi).
- Milan Linate to Stazione Ferroviaria Milano Centrale (Milan Central railway station) is about 25' and 5 Euro

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- Begamo Orio al Serio to Stazione Ferr. Milano Centrale (Milan Central railway station) is about 45' and 8 Euro
- Milano Malpensa to Stazione Ferr. Milano Centrale (Milan Central railway station) is about 1h and 10 Euro
- From Bologna airport to Stazione Ferroviaria Bologna Centrale (Bologna Central railway station): 20' and 5 Euro
- From the Milan or Bologna railway station, take the train to Parma railway station. Parma railway station is very close to the historical city center, however, either a city bus (1,5 euro) or a taxi is needed to reach one of the hotels.
- The University campus, where the workshop will be held, is outside the city center, but it's well connected by the city bus network to the city center where hotels are located. Please note that since attendees will be using the bus multiple times, it may be convenient to purchase a multiple travel ticket (perhaps 8 travels for 10 euro). Bus lines that reach the University Campus are n. 7, 14, 21.
- The web site to check the train schedule is:

  http://www.trenitalia.com/

- Queen Alia Airport in Amman, and Cairo Airport, may not be directly connected to Bologna, but one can fly to Rome or Athens or other airports and then connect from there to Bologna.
- Flying to Bologna rather than Malpensa will likely save 2 or 3 hours of time in reaching Parma.

6. Accommodation

The city center can be reached in about 15 minutes by bus (bus ticket 1.50 Euro) or by taxi.

Hotels:
Hotel Torino http://www.hotel-torino.it/en/index.php is at the very center of the historical part of the city, however, Hotel Toscanini (IBIS) https://www.accorhotels.com/gb/hotel-9153-ibis-styles-parma-toscanini/index.shtml is also at 10' walking distance from the center and directly on a bus line to the campus.

Using standard hotel or B&B reservation platforms, one may find other 3* or 4* hotels or B&B in the center of Parma offering similar services and costs. For easier connection with the campus and the city center, we suggest not to book a hotel or a B&B northern than Parma railway station. Please check on **maps** resources and have a prior look at the geography to understand where each hotel is located with respect to the city center and the university campus where the study school will be held.

7. Contact Us

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