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## Organize training measures, including workshops in accession candidate countries

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Salvador Ros, Marco Raciti

### ► To cite this version:

Tuuli Tahko, Ora Zehavi, Martin Lhotak, Natasha Romanova, Claire Clivaz, et al.. Organize training measures, including workshops in accession candidate countries. [0] DARIAH ERIC; King's College London; Swiss Institute of Bioinformatics; Université de Neuchâtel; University of Haifa; Universidad Nacional de Educación a Distancia; Library of the Czech Academy of Sciences; University of Helsinki; University of Glasgow. 2019. hal-02457843

**HAL Id: hal-02457843**

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Submitted on 28 Jan 2020

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D7.3 Organize training measures, including workshops in accession candidate countries

## DESIR

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### DARIAH ERIC Sustainability Refined

INFRADEV-03-2016-2017 - Individual support to ESFRI and other world-class research infrastructures

Grant Agreement no.: 731081

Date: 30-12-2019

Version: 1.0



DESIR has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 731081.

Grant Agreement no.:	731081
Programme:	Horizon 2020
Project acronym:	DESIR
Project full title:	DARIAH ERIC Sustainability Refined
Partners:	<p>DIGITAL RESEARCH INFRASTRUCTURE FOR THE ARTS AND HUMANITIES</p> <p>GEORG-AUGUST-UNIVERSITAET GOETTINGEN STIFTUNG OEFFENTLICHEN RECHTS</p> <p>UNIVERSITEIT GENT</p> <p>UNIWERSYTET WARSZAWSKI</p> <p>FACULDADE DE CIENCIAS SOCIAIS E HUMANAS DA UNIVERSIDADE NOVA DE LISBOA</p> <p>CENTAR ZA DIGITALNE HUMANISTICKE NAUKE</p> <p>GOTTFRIED WILHELM LEIBNIZ UNIVERSITAET HANNOVER</p> <p>INSTITUT NATIONAL DE RECHERCHE ENINFORMATIQUE ET AUTOMATIQUE</p> <p>KING'S COLLEGE LONDON</p> <p>UNIVERSITY OF GLASGOW</p> <p>KNIHOVNA AV CR V. V. I.</p> <p>HELSINGIN YLIOPISTO</p> <p>SIB INSTITUT SUISSE DE BIOINFORMATIQUE</p> <p>UNIVERSIDAD NACIONAL DE EDUCACION A DISTANCIA</p> <p>UNIVERSITY OF HAIFA</p> <p>UNIVERSITY OF NEUCHÂTEL</p>
Topic:	INFRADEV-03-2016-2017

**DESIR**

INFRADEV-03-2016-2017 - Individual support to ESFRI and other world-class research infrastructures, Grant Agreement no. 731081.



Project Start Date:	01-01-2017
Project Duration:	36 months
Title of the document:	Organize training measures, including workshops in accession candidate countries
Work Package title:	Teaching
Estimated delivery date:	31/12/2019
Lead Beneficiary:	BCDH
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Keywords:	DARIAH, research infrastructure, training & education

## Revision History

Version	Date	Author	Beneficiary	Description
0.1	03-07-19	Salvador Ros	UNED	Workshop in Spain organised
0.2	23-10-19	Tuuli Tahko	UH	Workshop in Finland organised
0.3	24-10-19	Ora Zehavi	UHAIFA	Workshop in Israel organised
0.4	28-11-19	Martin Lhotak	LCAS	Workshop in Czech Republic organised
0.5	06-12-19	Claire Clivaz	SIB	Workshop in Switzerland organised
0.6	09-12-19	Natasha Romanova	KCL	Workshop in the United Kingdom organised
0.7	20-12-19	Marco Raciti	DARIAH	All reports collected and final revision
1.0	30-12-19	Marco Raciti	DARIAH	Deliverable submitted

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## Executive Summary

The DESIR project sets out to strengthen the sustainability of DARIAH and firmly establish it as a long-term leader and partner within arts and humanities communities. The project was designed to address six core infrastructural sustainability dimensions and one of these was dedicated to training and education, which is also one of the four pillars identified in the DARIAH Strategic Plan 2019-2026<sup>1</sup>.

In the framework of Work Package 7: Teaching, DESIR organised dedicated workshops in the six DARIAH accession countries (Czech Republic, Finland, Israel, Spain, Switzerland and the United Kingdom) to introduce them to the DARIAH infrastructure and related services, and to develop methodological research skills.

The topic of each workshop was decided by accession countries representatives according to the training needs of the national communities of researchers in the (Digital) Humanities. Training topics varied greatly: on the one hand, some workshops had the objective to introduce participants to specific methodological research skills; on the other hand, a different approach was used, and some events focused on the infrastructural role of training and education. The workshops organised in the context of Work Package 7: Teaching are listed below:

- **CZECH REPUBLIC:** *"A series of fall tutorials 2019 organized by LINDAT/CLARIAH-CZ, tutorial #3 on TEI Training"*, November 28, 2019, Prague;
- **FINLAND:** *"Reuse & sustainability: Open Science and social sciences and humanities research infrastructures"*, 23 October 2019, Helsinki;
- **ISRAEL:** *"Introduction to Text Encoding and Digital Editions"*, 24 October 2019, Haifa;
- **SPAIN:** *"DESIR Workshop: Digital Tools, Shared Data, and Research Dissemination"*, 3 July 2019, Madrid;
- **SWITZERLAND:** *"Sharing the Experience: Workflows for the Digital Humanities"*, 5-6 December 2019, Neuchâtel;
- **UNITED KINGDOM:** *"Research Software Engineering for Digital Humanities: Role of Training in Sustaining Expertise"*, 9 December, London.

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<sup>1</sup> [https://www.dariah.eu/wp-content/uploads/2019/08/Strategic-Plan\\_2019-2026.pdf](https://www.dariah.eu/wp-content/uploads/2019/08/Strategic-Plan_2019-2026.pdf)

Nature of the deliverable		
	R	Document, report
	DEM	Demonstrator, pilot, prototype
✓	DEC	Websites, patent fillings, videos, etc.
	OTHER	
Dissemination level		
✓	P	Public
	CO	Confidential only for members of the consortium (including the Commission Services)
	EU-RES	Classified Information: RESTREINT UE (Commission Decision 2005/444/EC)
	EU-CON	Classified Information: CONFIDENTIEL UE (Commission Decision 2005/444/EC)
	EU-SEC	Classified Information: SECRET UE (Commission Decision 2005/444/EC)

### Disclaimer

DESIR has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 731081. This publication reflects the views only of the author, and the Commission cannot be held responsible for any use which may be made of the information contained therein.



## Introduction

This report provides an overview of the training measures conducted in DESIR accession countries. The DESIR project sets out to prepare the ground for establishing DARIAH membership in six new countries: Czech Republic, Finland, Israel, Spain, Switzerland and the United Kingdom. During the project lifetime, project partners prepared national roadmaps, established contacts with key persons and raised awareness of and participation in DARIAH locally with the ultimate objective of laying the foundation for achieving DARIAH membership in the near future.

One of the main activities of Work Package 7: Teaching, which had the objective of reinforcing the position of DARIAH as a unique provider of or collaborator for education and training, was to organise dedicated workshops in the six DARIAH accession countries to develop methodological research skills according to specific needs of the local communities of (digital) humanists.

The following topics have been addressed:

- In the Czech Republic, a **tutorial on TEI** (Text Encoding Initiative) was the core theme of the training event;
- In Finland, the workshop focused on **preconditions of reusing data and tools**;
- In Israel, the training session was designed to provide an introduction to **Text Encoding and Digital Editions**;
- In Spain, the workshop gave an overview of the DARIAH infrastructure and provided a short introduction to **identifying and managing humanities research data**;
- In Switzerland, the focus of the workshop was on **Sustainable Data Workflows in the Arts and Humanities**;
- In the United Kingdom, a workshop was organised for professionals working at the intersection of Digital Humanities and **Research Software Engineering**.

## 1. CZECH REPUBLIC: A series of fall tutorials 2019 organized by LINDAT/CLARIAH-CZ, tutorial #3 on TEI Training

Date: November 28, 2019

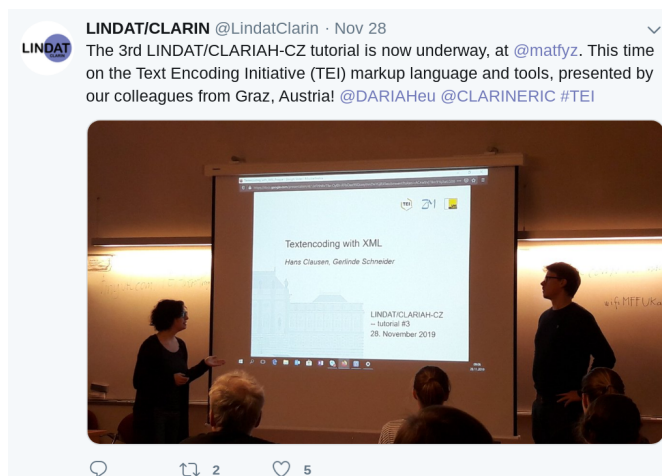
Venue: Charles University, Faculty of Mathematics and Physics  
Malostranske nam. 25  
118 00 Prague 1  
Czech Republic

Description of the event:

This tutorial gave an overview of the possibilities and advantages of using TEI markup language to humanities scholars and showed how this could be beneficial to their projects.

### 1.1 Aim of the training workshop

The XML/TEI is a widely used standardized markup language maintained and developed by the Text Encoding Initiative (TEI)<sup>2</sup>. Over the last three decades the standard has become fundamental for digital scholarship and is used for digital scholarly editing and text analysis all over the world. First, the tutorial introduced the descriptive markup language XML as a foundational technique for the structuring and annotation of text. In the second part, instructors gave an overview of the guidelines and the XML-based vocabulary of the TEI and explained how it can be used to represent various humanities perspectives on text in a standardized way. The tutorial has been a combination of theoretical input and hands-on exercises.



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<sup>2</sup> <https://tei-c.org/>

## 1.2 Participants and speakers

Speakers:

- Hans Clausen, Karl-Franzens-Universität Graz, Austria
- Gerlinde Schneider, Karl-Franzens-Universität Graz, Austria

Around 20 participants attended the tutorial. Most of them are researchers and students from the partner institutions of the LINDAT/CLARIAH-CZ research infrastructure.

## 1.3 Agenda

9:00– 11:00	Introduction to text encoding with XML and TEI
11:00 – 11:30	Break
11:30 – 13:30	Using the TEI Guidelines and Practical Exercise

Teaching materials will be available online here: <https://clariah.lindat.cz/#education>

## 1.4 Summary

The LINDAT/CLARIAH-CZ research infrastructure is a joint, distributed Czech national node of the pan-European CLARIN ERIC<sup>3</sup> (Common Language Resources and Technology Infrastructure) and DARIAH ERIC<sup>4</sup> (Digital Research Infrastructure for the Arts and Humanities) networks. It consists of 11 top research organizations that are active in the domain of humanities and arts in the Czech Republic. The project was launched in January 2019 and we organized a series of three fall tutorials in the second half of the year. We focused on the LINDAT repository, its data, tools, services and related legal aspects of data publishing. In addition, the projects of Czech digital libraries were presented.

<sup>3</sup> <https://www.clarin.eu/>

<sup>4</sup> <https://www.dariah.eu/>

Program třetího podzimního tutoriálu pořádaného výzkumnou infrastrukturou LINDAT/CLARIAH-CZ

**LINDAT** CLARIAH-CZ **podzimní tutoriály**

MFF UK, Malostranské nám. 25, Praha posluchárna S1, 4. patro

tutoriál 26.9.2019 9-13 hod.

tutoriál 17.10.2019 9-13 hod.

tutoriál 28.11.2019 9-13:30 hod.

**Program**

09:00-13:30 TEI Training

Hans Clausen, Gerlinde Schneider  
(Karl-Franzens-Universität Graz, Austria)

The XML/TEI is a widely used standardized markup language maintained and developed by the Text Encoding Initiative (TEI). Over the last three decades the standard has become fundamental for digital scholarship and is used for digital scholarly editing and text analysis all over the world. This tutorial will give an overview to the possibilities and advantages the use of the TEI offers to humanities scholars and their projects. First, we will introduce the descriptive markup language XML as a foundational technique for the structuring and annotation of text. In the second part, we will give an overview to the guidelines and the XML-based vocabulary of the TEI and how it can be used to represent various humanities perspectives on text in a standardized way. The tutorial will be a combination of theoretical input and hands-on exercises.

- Listopadový tutoriál bude veden v angličtině.
- Tutoriály jsou primárně určeny výzkumníkům humanitních, kulturních a kreativních oborů, odborníkům v jazykových technologiích a studentům napříč těmito obory
- Tutoriály budou přehlednou, inspirací a motivací zároveň, a proto mohou upoutat pozornost odborníků i z jiných oblastí
- Registrace není nutná a účast je bezplatná
- Přineste si prosím s sebou notebooky s nainstalovaným editorem Oxygen XML Editor (školení verze zdarma ke stažení na [https://www.oxygenxml.com/xml\\_editor/download\\_oxygenxml\\_editor.html](https://www.oxygenxml.com/xml_editor/download_oxygenxml_editor.html))

Materiály z tutoriálů budou dostupné na: <https://lindat.cz>  
Kontakt: Barbora Hladká [hladka@ufal.mff.cuni.cz](mailto:hladka@ufal.mff.cuni.cz)

DESIR SSHOC MET

THE LINDAT/CLARIAH-CZ PROJECT (LINDAT181) AND CZ 82-1-B19-A10-B1181/8181781, FORMERLY LINDAT181, LINDAT181) IS FULLY SUPPORTED BY THE MINISTRY OF EDUCATION, SPORTS AND YOUTH OF THE CZECH REPUBLIC UNDER THE PROGRAMME OF "LARGE INFRASTRUCTURES".

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## 2. FINLAND: “Reuse & sustainability: Open Science and social sciences and humanities research infrastructures”

Wednesday 23 October 2019, 10:00 – 16:00  
Runeberg hall, University of Helsinki main building

Research practices in core humanities fields have developed over centuries, in contrast to the revolution in digital methods that is happening at breakneck speed. New methods are definitely out there, but it may prove difficult to change best practices in a particular field without national collaboration. Simultaneously, as data-intensive social sciences and humanities (SSH) research transitions from project-based tools towards national and international research infrastructures, new questions about sustainability arise:

- How can we ensure that the data and tools used in Digital Humanities and Social Data Sciences are reusable?
- What can new SSH research infrastructures learn about sustainability and distributed infrastructure networks from more established RIs in natural sciences?

Aimed at anyone using computational methods in SSH research and especially those thinking about foundational questions of digital infrastructure in the humanities and social sciences, this workshop focused on the preconditions of reusing data and tools (documentation, best practices). We also learnt how Instruct Finland, a national, integrated structural biology network, supports state-of-the-art research, and heard about the latest developments regarding the SSH Open Marketplace, developed in conjunction with the Social Sciences and Humanities Open Cloud (SSHOC). The day ended with a discussion about the current and future possibilities offered by SSH research infrastructures in the Finnish context.

### 2.1 Aim of the training workshop

The advancement of digital humanities and social data science in Finland is currently dependent on the construction of national infrastructure that is researcher-driven and adaptable but also robust enough to disseminate the methods, tools and data sets created by researchers, ensuring they are discoverable, well-documented, and reusable. To achieve such national – as well as international – coordination, it is crucial to spread awareness of the preconditions of Open Science as they pertain to SSH fields in particular. While digital humanities are a vibrant and growing field in Finland, infrastructure development currently lacks coordination at the national level. Existing infrastructures, memory organisations, universities and individual researchers often carry out work relatively independently of each other, resulting in a) insufficient resources for research and infrastructural work, b) lack of sustainable solutions and therefore c) duplication of effort between researchers. The

objectives of the workshop were to share knowledge of best practices with regard to reusing data and tools in the spirit of Open Science; to learn from established national and international research infrastructures how they approach openness; and ultimately to create opportunities for coordinated, national collaboration in digital humanities in Finland.

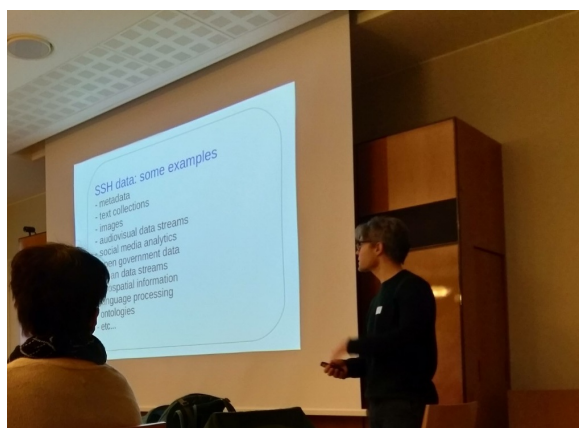
## 2.2 Participants and speakers

The audience consisted of researchers, library and archives professionals, research services professionals and representatives of research infrastructures. The participants came from five different Finnish universities (Aalto, Eastern Finland, Helsinki, Tampere, Turku) as well as the National Library of Finland, CSC – IT Center for Science Ltd., the Academy of Finland, and the Finnish National Board on Research Integrity. The total number of participants including speakers and organisers was 33.

### Speakers

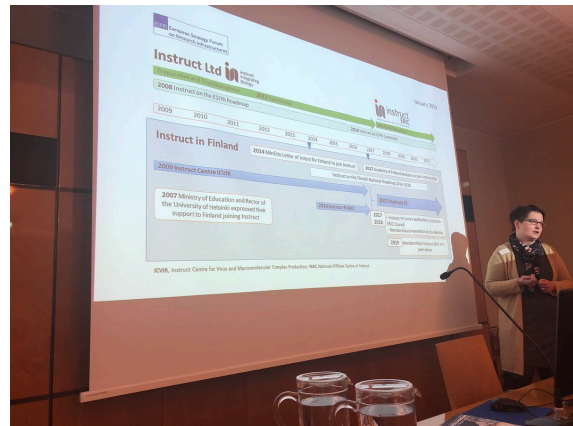
#### Leo Lahti, Associate Professor, University of Turku

Prof. Lahti is an Associate Professor and research group leader in Applied Mathematics at the University of Turku, Finland. He obtained his PhD in statistical machine learning and bioinformatics from Aalto University (2010) and has subsequently carried out data-intensive research in areas ranging from machine learning and molecular life sciences to digital humanities. He has also published popular open research software, is the founder and first coordinator of the Open Knowledge Finland Open Science work group, and a scientific advisor in data science for various companies. His key research themes cover methods and applications of modern statistical data analysis in emerging application fields such as computational history.



### Hanna Oksanen, Adjunct Professor, Faculty of Biological and Environmental Sciences, University of Helsinki

Dr Oksanen is a Principal Investigator of a research group working on the molecular principles of viruses, investigating archaeal and bacterial viruses to understand viral functions and reveal structures at the molecular level. She is the coordinator of Instruct Finland, member of the ESFRI Instruct-ERIC, which is a pan-European research infrastructure in structural biology. Covering the history, development and operating principles of Instruct at the national as well as European level, Dr Oksanen presented a useful benchmark for thinking about reproducibility and sustainability in research infrastructures also in the social sciences and humanities.



### Laure Barbot, European Project Officer, DARIAH-EU

After studying French and German philosophies in the Erasmus Mundus Master's programme Europhilosophie, Ms Barbot obtained a Master's degree in Political Sciences from the Toulouse Institute of Political Studies. She worked at the University of Toulouse as a European Project Manager for the Europhilosophie consortium before joining the CNRS to manage European funding for the Côte d'Azur regional office. In 2015, she became general secretary of the Social Sciences and Humanities Centres Network, a French research infrastructure. Since January 2019, she has been on a leave of absence from the CNRS and responsible for coordinating the activities led by DARIAH-EU within the Social Sciences & Humanities Open Cloud (SSHOC) project.



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**Mikko Tolonen, Assistant Professor (Digital Humanities), University of Helsinki**

Prof. Tolonen is the Principal Investigator of the Helsinki Computational History Group at the Helsinki Centre for Digital Humanities (HELDIG) and has also worked as a Professor of Research on Digital Resources at the National Library of Finland. He is the chair of Digital



Humanities in the Nordic Countries, a member of the board of directors for the European Association for Digital Humanities, and on the scientific advisory board of CSC – IT Center for Science Ltd. In 2016, along with his research group, he was awarded an Open Science and Research Award by the Finnish Ministry of Education and Culture. He is the PI for Finland in the Humanities at Scale (DESIR 2017-19) project to further DARIAH-EU's aim to integrate digitally-enabled research in the arts and humanities in Europe.

**2.3 Agenda**

10:00 - 10:15	Welcome
10:15 - 11:15	<b>Session 1: Preconditions of reusing data and tools</b> <i>Leo Lahti, Associate Professor, University of Turku</i>
11:25 - 12:15	<b>Session 2: Instruct Finland research infrastructure in structural biology</b> <i>Hanna Oksanen, Adjunct Professor, University of Helsinki</i>
12:15 - 13:15	Lunch
13:15 - 14:15	<b>Session 3: Discovering tools and services: the SSH Open Marketplace</b> <i>Laure Barbot, European Project Officer, DARIAH-EU</i>
14:15 - 14:35	<b>DARIAH-FI: an introduction</b> <i>Mikko Tolonen, Assistant Professor, University of Helsinki</i>
14:35 - 15:45 (incl. coffee break)	<b>Session 4: Current and future possibilities of Finnish SSH research infrastructures</b> <i>Mikko Tolonen, Assistant Professor, University of Helsinki</i>
15:45 - 16:00	Closing remarks

## 2.4 Summary



The workshop was advertised through the DARIAH-FI consortium as well as via the communication channels of the Helsinki Centre for Digital Humanities (HELDIG)/University of Helsinki and DARIAH-EU. The event was open to all interested parties. There was a lot of interest in the event beforehand, and the number of participants slightly exceeded expectations. The feedback from participants during the workshop was very positive.

The workshop was very successful in raising awareness of the various issues that researchers and research infrastructures face when implementing Open Science in their practices and procedures, from the particular complexities of SSH data to the challenges of promoting best practices or tracking infrastructure usage. The programme included an interactive session which enabled participants from different backgrounds to debate their views on Open Science. Many insights were raised about the unique properties of SSH data and the general principles of Open Science, including from the perspective of memory organisations. Further training needs regarding the dissemination of digital/computational methods were also discussed. The Helsinki Digital Humanities Hackathon was found to have potential as a template that could be utilised by other universities in Finland, which would make this very useful form of training available to a larger number of students. The discussions also revealed a clear need for teacher training in DH methods, which is something DARIAH-FI plans to promote in the future.



From the organisers' perspective, the talks and the audience discussions provided much food for thought on how DARIAH-FI should be developed going forward. It strengthened our understanding of how the needs of various stakeholders vary with regard to SSH data. We also found the dialogue between STEM and SSH infrastructures very fruitful and will keep pursuing similar opportunities for knowledge sharing. The event strengthened existing networks and some new connections were made between participants. The workshop set an encouraging precedent for organising similar events in the future.



### 3. ISRAEL: “Introduction to Text Encoding and Digital Editions”

#### 3.1 Aim of the training workshop

The training workshop “Introduction to Text Encoding and Digital Editions” took place on 24 October 2019 at the University of Haifa’s Younes and Suraya Nazarian Library.

The purpose of the workshop was to introduce researchers and students to Text Encoding and Digital Editions. The workshop was the occasion to showcase DARIAH activities in this field and tools that might be useful for the implementation of TEI to new projects. Furthermore, another important objective of the workshop was to bring together researchers from several Universities in Israel to get acquainted with DARIAH and exchange information regarding current projects.

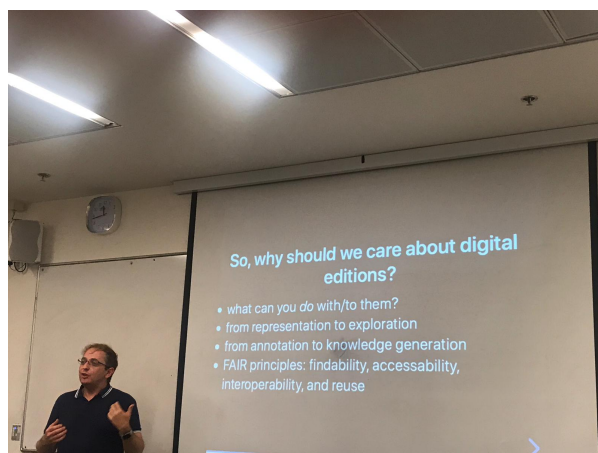
#### 3.2 Participants and speakers

The audience was mostly composed of librarians, researchers and Postdoctoral students already working on Digital Humanities projects. For some of them, one of the reasons to attend the event was the possibility to learn new techniques in order to create digital editions of ancient or medieval Hebrew works and get insights on how to cooperate with TEI experts worldwide. The participants came from the Haifa University, Tel- Aviv University, Bar Ilan University, Ben-Gurion University, Open University and the Information Center of The Henrietta Szold Institute.

#### Speakers

**Dr. Toma Tasovac**, *Director of the Belgrade Center for Digital Humanities (BCDH) and co-Director of DARIAH-EU.*

Toma was educated at Harvard University, Princeton University and Trinity College Dublin. His areas of interest include lexicography, data modeling, TEI, digital editions and research infrastructures. He previously served as the National Coordinator of DARIAH-RS and Chair of the National Coordinators' Committee at DARIAH-EU. Under Toma's leadership, BCDH has received funding from various national and international granting bodies, including Erasmus Plus and Horizon 2020.



**Dr. Sinai Rusinek, *Digital Humanities at the University of Haifa***

Dr. Sinai Rusinek teaches Digital Humanities courses at Bar-Ilan University and at the University of Haifa. In 2016 and 2017 she won the Pelagios resource development grant for the project “Kima: Towards a Hebrew Historical Gazetteer”. In 2018 she won a grant from the Rotschild Europe foundation for her project DIJEST: Digitizing Jewish Studies. In recent years Sinai has been active in promoting Digital Humanities in Israel as well as internationally: she served on the management committee member of COST Action IS1310 Reassembling the Republic of Letters, on the interim executive council of CENTERNET, the international network of digital humanities centers, and on the program committee of DH2018.

The workshop was introduced by:

- **Prof. Alexander Bligh**, *Chief Scientist - Ministry of Science and Technology*
- **Prof. Jonathan Ben-Dov**, *Vice Humanities Dean, University of Haifa*
- **Prof. Daphna Erdinast-Vulcan**, *Academic Director, Younes and Soraya Nazarian Library, University of Haifa.*

### 3.3 Agenda

9:30 - 10:00	Greetings: Prof. Alexander Bligh Prof. Jonathan Ben-Dov Prof. Daphna Erdinast-Vulcan
10:00 - 11:00	<b>Introduction to Markup and Digital Editions</b>
11:00 - 11:30	Coffee
11:30 - 12:30	<b>Introduction to TEI</b>
12:30 - 13:30	Lunch
13:30 - 14:30	<b>Encoding letters</b>
14:30 - 15:00	Coffee
15:00 - 16:00	<b>TEI for your project</b>

### 3.4 Summary

The workshop was organised and hosted by the Younes and Suraya Library at the University of Haifa. Participants were able to learn practical aspects of research in the context of Digital Editions through dedicated hands-on session.



## 4. SPAIN: “DESIR Workshop: Digital Tools, Shared Data, and Research Dissemination”

Wednesday 3 July 2019, 11:00 – 13:00

UNED, Salón de Grados de la Facultad de Educación. C/ Juan del Rosal, 14

The workshop “Digital Tools, Shared Data, and Research Dissemination” was organised as a standalone session of the *DH@Madrid Summer School 2019* that took place on 1-3 July 2019 in the premises of UNED in Madrid. The workshop was introduced by Deborah Thorpe, DARIAH Training and Education Officer. This interactive session had the objective to both introduce DARIAH, notably from the point of view of training & education and Open Science, and help participants to identifying and managing humanities research data (what are humanities data, open data management best practices, data management plans).

The main purpose of the *DH@Madrid Summer School 2019* was to teach students on how to approach a text-based digital humanities project from the beginning. Sessions focused on how to define a Linked Open Data (LOD) ontology, how to process text with Python, modern approaches to text-analysis, natural interaction based on language (NIL) and stylometry.

### 4.1 Aim of the training workshop

The workshop was organised as part of the activities carried out during the course of the DESIR project to raise awareness of DARIAH and digital humanities as a whole in Spain. The objectives of this session were to discuss with students what are (humanities) data, what are the challenges and advantages of Open Science, what is Open Data and what does it involve and, finally, data management plans.

### 4.2 Participants and speakers

The audience consisted of students enrolled to the *DH@Madrid Summer School 2019*. Approximately, 50 students attended the workshop.

#### Speaker

**Deborah Thorpe, DARIAH Training and Education Officer, DARIAH-EU**

Deborah was Training and Education Officer of DARIAH-EU from March to August 2019. Prior to this, she has been a Marie Skłodowska-Curie COFUND Fellow for 2017-18 at Trinity College Dublin Long Room Hub. Her fellowship was in association with Trinity’s School of

Histories and Humanities and the Manuscript, Book and Print Cultures research theme. She joined TCD from the University of York where she was a Postdoctoral Fellow with jointly with the Department of Electronics and Department of English (2014-17).



## 4.3 Agenda

The workshop had the following running order:

### 1. Introduction to DARIAH

- What is DARIAH? What is a research infrastructure, and why does it matter to you?
- Working groups
- Policy and foresight
- Training, Education, and careers
- The DARIAH Mission Statement

## 2. A short introduction to identifying and managing humanities research data

- Introductions
- **Exercise:** what are (humanities) data? What are your data?
- Open science and open research data
- **Exercise** on open science
- Open Data Management Best Practices
- Some resources: print and digital e.g. 'Future Proof and FAIR Research Data: Open Data Management Best Practices and First Steps', Ulrike Wuttke
- Data management plans

### 4.4 Summary

The workshop, scheduled as the last session of the *DH@Madrid Summer School 2019*, had the objective of introducing the role of DARIAH in the context of training and Open Science and gave participants useful insights on how to manage humanities research data after training sessions focused on Artificial Intelligence and Natural Language Processing.

The workshop constituted an important activity to raise the profile of DARIAH in Spain. A presentation of DARIAH was also given by Eliza Papaki, DARIAH Communication Officer, at the 4<sup>th</sup> International Congress of the *Asociación de Humanidades Digitales Hispánicas*<sup>5</sup> in October 2019.

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<sup>5</sup> <https://humanidadesdigitaleshispanicas.es/>

## 5. SWITZERLAND: “Sharing the Experience: Workflows for the Digital Humanities”.

The workshop “Sharing the Experience: Workflows for the Digital Humanities” took place in Neuchâtel on 5-6 December 2019. This event was the second DARIAH-DESIR workshop organised in the framework of the DESIR project after the DARIAH-CH workshop held in Neuchâtel on 29-30 November 2018<sup>6</sup>. It has been co-organized by Sara Schulthess (DH+, SIB, Lausanne) and Simon Gabay (Faculty of Arts and Humanities, University of Neuchâtel), with a scientific committee composed by Berenike Herrmann (UNIBAS), Tobias Hodel (UZH/UNIBE), Elena Spadini (UNIL) and Toma Tasovac (DARIAH). It targeted young scholars, invited to present their research in depth and to discuss together methodological, data management and research workflow issues.

### 5.1 Aim of the training workshop

This workshop was of particular importance in the perspective of the Swiss road to the status of DARIAH observer membership, prepared in the context of DESIR Work Package 3: Growth. It was the first DARIAH event organized in Switzerland with a special focus on young researchers. It demonstrated the liveliness of the Swiss projects, as well as the impact of DARIAH to gather together DH researchers in Switzerland.

### 5.2 Participants and speakers

Three speakers have been invited to the two-days event: Toma Tasovac (DARIAH co-director), Erzsébet Tóth-Czifra (DARIAH Open Science Officer) and Loup Bernard (Archaeology, University of Strasbourg). A call for papers allowed many young researchers to present their projects. The website with the full programme can be found here: <https://dariah-ch-ws19.sciencesconf.org/>

**Selected papers:** Marc Aeberle (UNINE), Helena Bermúdez Sabel (UNIL), Francesca Dell'Oro (UNIL), Fabrice Flückiger (UNINE), Martin Grandjean (UNIL), Tobias Hodel (UNIBE), Henrike Hoffmann (ETH), Jan Kassel (Leipzig), Moritz Maehr (ETH), Paola Marongiu (UNIL), Mina Monier (SIB), Elisa Nury (UNIGE), Simone Rebora (UNIBAS), Violeta Seretan (UNIL), Marco Vespa (UNIFR), Daniella Zetti (ETH)

**Organizers, chairs, auditors:** Francesco Beretta (CNRS), Vera Chiquet (UNIBAS), Claire Clivaz (SIB), Simon Gabay (UNINE), Regula Graf (SNSF), Béatrice Joyeux-Prunel (UNIGE), Martin Kurz (UNIZH), Ursula Loosli (UNIBE), Elodie Paupe (UNINE), Jean-Claude Rebetez (Evêché, Bêle), Sara Schulthess (SIB), Elena Spadini (UNIL), Claudia Sutter (UNIZH), Kathi Woitas (UNIZH).

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<sup>6</sup> <https://www.unine.ch/dariah-ch/home.html>

## 5.3 Agenda

Thursday, December 5, 2019

13:15 - 13:45	Introduction - Toma Tasovac (DARIAH Director)
13:45 - 14:35	<b>Sustainable Data Workflows in the Arts and Humanities. Part I</b> - Erzsébet Tóth-Czifra (DARIAH Open Science Officer)
14:35 - 14:45	<b>The Data and Service Center for the Humanities Supporting Sustainable Data Workflows.</b> Short Intro - Vera Chiquet (Dasch, University of Basel)
14:45 - 15:15	Coffee Break
<u>15:15 - 16:15</u>	<u>Paper session - 1 (chair: Martin Grandjean)</u>
15:15 - 15:45	<b>Revisiting Classic Textual Problems Using Digital Tools: The Case of Mark 16</b> - Mina Monier, DH+, SIB, Lausanne
15:45 - 16:15	<b>Digital Critical Edition of Apocryphal Literature: Tools and Methodology</b> - Violeta Seretan, University of Lausanne
16:15 - 16:30	Short break
<u>16:30 - 17:30</u>	<u>Paper session - 2 (chair: Tobias Hodel)</u>
16:30 - 17:00	<b>Analyzing and Visualizing the Complexity and Multidimensionality of an Historical Network</b> - Martin Grandjean, University of Lausanne
17:00 - 17:30	<b>VOTING ON FAITH. Digital Humanities and the Mapping of Reformation Ballots</b> - Marc Aberle, University of Neuchâtel - Fabrice Flückiger, Ludwig-Maximilian-Universität München
18:00 - 19:00	<b>Keynote: ArkeoGIS, Feedback on the Difficulty and Interest of Sharing Digital Data from Archaeology</b> - Loup Bernard (University of Strasbourg)
20:00 - 21:30	Social dinner



Friday, December 6, 2019

09:15 - 10:15	<b>Sustainable Data Workflows in the Arts and Humanities. Part II</b> - Erzsébet Tóth-Czifra (DARIAH Open Science officer)
10:15 - 10:45	Coffee Break
<u>10:45 - 12:15</u>	<u>Paper session - 3 (chair: Elena Spadini)</u>
10:45 - 11:15	<b>How the Search Engine Came to the Historians</b> - Daniela Zetti, ETH Zurich - Henrike Hoffmann, ETH Zurich - Moritz Mähr, ETH Zurich
11:15 - 11:45	<b>Transkribus Best-Practices – Using Handwritten Text Recognition (HTR) for Specific Purposes</b> - Tobias Hodel, University of Zurich, State Archives of Zurich
11:45 - 12:15	From Me to You: Peer-to-Peer Collaboration With Linked Data - Jan Kaßel, Leipzig
12:15 - 13:45	Lunch
<u>13:45 - 14:45</u>	<u>Paper session - 4 (chair: Toma Tasovac)</u>
13:45 - 14:15	<b>The Grammateus Project: from Ancient Greek Papyri to a Web Application</b> - Elisa Nury, University of Geneva
14:15 - 14:45	<b>ERC AdG Locus ludi (741520): Integrating Databases for Understanding the Cultural Fabric of Play and Games in Classical Antiquity</b> - Véronique Dasen, University of Fribourg, Marco Vespa, University of Fribourg
<u>14:45 - 15:45</u>	<u>Paper session - 5 (chair: Béatrice Joyeux-Prunel)</u>
14:45 - 15:15	<b>Absorbed in Goodreads. A Computational Approach for the Study of Online Social Reading</b> - Simone Rebora, University of Basel - Piroska Lendvai, University of Basel - Moniek Kuijpers, University of Basel
15:15 - 15:45	<b>WoPoss: a Workflow for the Semantic Annotation of Modality in a Diachronic Corpus</b> - Helena Bermúdez Sabel, University of Lausanne - Francesca Dell'oro, University of Lausanne - Paola Marongiu, University of Lausanne
15:45 - 16:15	Coffee Break
16:15 – 17:15	Open Discussion: Research Data Management Best Practices and Next Steps

## 5.4 Summary

The two DARIAH DESIR workshops organized at the University of Neuchâtel have stimulated the discussion around digital humanities in this institution that has become a DARIAH cooperating partner during the DESIR project. This second workshop has enlightened a general shift in Swiss research in Digital Humanities and has been an important event just before the DARIAH-CH meeting that took place in Bern on the 9<sup>th</sup> of December. In addition, the proceedings of the workshop will be published on DARIAH-Campus at the beginning of 2020.

The SNSF<sup>7</sup> is now preparing with the SERI<sup>8</sup> the budget that should be devoted to build a framework for the DARIAH-CH national centre of competences<sup>9</sup>.

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<sup>7</sup> Swiss National Science Foundation.

<sup>8</sup> State Secretariat for Education, Research and Innovation.

<sup>9</sup> See here the preparatory document, p. 28:

[https://www.sbf.admin.ch/dam/sbf/en/dokumente/2019/04/roadmap-21-24.pdf.download.pdf/roadmap\\_2019\\_e.pdf](https://www.sbf.admin.ch/dam/sbf/en/dokumente/2019/04/roadmap-21-24.pdf.download.pdf/roadmap_2019_e.pdf)

## 6. UNITED KINGDOM: “Research Software Engineering for Digital Humanities: Role of Training in Sustaining Expertise”

Monday 9 December 2019, King’s College London, Small Committee Room K0.31

An international workshop for professionals working at the intersection of Digital Humanities and Research Software Engineering.

### 6.1 Aim of the training workshop

As the scale and complexity of Digital Humanities projects increase and challenges facing researchers and institutions become more pressing, the need for creating and maintaining national and international communities of practice for knowledge transfer, training and exchange of methods and know how becomes paramount.

This one-day workshop brought together experts working at the intersection of Digital Humanities and Research Software Engineering in the UK and Europe for a day of discussions around RSE models, training practices and exchange of ideas. The workshop further showcased Digital Research Infrastructure for the Arts and Humanities (DARIAH)’s ongoing work and future plans as well as training platforms as a vehicle enabling dissemination of Digital Humanities training at all levels of expertise, for sharing and discussing information and establishing best practices in DH in a range of formats.

### 6.2 Participants and speakers

The target audience for the workshop were professionals working at the intersection of Digital Humanities and Research Software Engineering. 11 Speakers, including one remote presentation:

Name	Institution	Role
Jonathan Blaney	Digital Projects Manager and Editor, British History Online	School of Advanced Study, University of London, Institute of Historical Research Digital
Mary Chester-Kadwell	Senior Software Developer	University Library & Cambridge Digital Humanities, University of Cambridge
Arianna Ciula	Deputy Director & Senior Research Software Analyst	King’s Digital Lab, King’s College London
Alexander Czmil	Head of TELOTA-The	Berlin-Brandenburgische

	Electronic Life of the Academy	Akademie der Wissenschaften (DE)
Jennifer Edmond	Associate Professor Head of the DARIAH Board of Directors	Trinity College Dublin (IR) DARIAH
Neil Jakeman	Senior Research Software Analyst	King's Digital Lab, King's College London
Anna Maria Sichani	Research Fellow	Media and Film, Sussex Humanities Lab, University of Sussex
James Smithies	Director	King's Digital Lab, King's College London
Martin Steer	Technical Lead, Digital Humanities	School of Advanced Study, University of London
Gary Stringer	Head of Digital Humanities	Exeter Digital Lab, University of Exeter
Dieter van Uytvanck (remote presentation)	Technical Director of CLARIN ERIC	University of Utrecht, CLARIN ERIC (NL)

11 further attendees

Name	Institution	Position
Filipe Bento	British Library	BL Labs Technical Lead
Thomas Couch	University College London, Research IT Services	Research IT Services Facilitator
Florence du Pre	King's Digital Lab, King's College London	Lab Manager
Øyvind Eide	Cologne University (DE)	Professor of Digital Humanities
Eleni Kotula	Edinburgh University	Lead Digital Research Facilitator
Nora McGregor	British Library	Digital Curator, European and Americas Collections
Harry Moss	British Library	Research Software Engineer
Orla Murphy	University College Cork (IR)	Lecturer in Digital Arts and Humanities; DARIAH National coordinator
Natasha Romanova	King's Digital Lab, King's College London	Digital Methods Lead (workshop coordinator)
Chris Sparks	Queen Mary University London	E-Strategy and Taught Programmes Operations Manager
Theresa Teng	Manchester University, IT Services	Developer

DESIR

INFRADEV-03-2016-2017 - Individual support to ESFRI and other world-class research infrastructures, Grant Agreement no. 731081.



## 6.3 Agenda

- I. Discuss best practices developed by and challenges facing a range of RSE for DH teams
  - a. Team set up (people/infrastructure/tech stack)
  - b. Software Development Lifecycle
  - c. Training and sustaining expertise (human/technical/operational)
- II. Discuss the role of infrastructures in sustaining RSE for DH expertise
  - a. DARIAH; DESIR project; DARIAH training resources
  - b. CLARIN ERIC
- III. Discuss ways of supporting the RSE for DH community in the UK and Europe

## 6.4 Summary

During the workshop, best practices adopted by different RSE for DH teams as well as challenges facing RSE for the DH community were presented and discussed in an informal yet structured setting. Representatives from Cambridge Digital Humanities, CLARIN-ERIC, Exeter Digital Lab, King's Digital Lab, School of Advanced Study, Sussex Humanities Lab and TELOTA at Berlin-Brandenburg Academy of Sciences gave informal presentations and answered questions from colleagues in the audience. Discussions centred around the way DH labs in the UK and Europe are organised, on how team roles are profiled and institutional contexts set up.

Major challenges identified by participants were:

- 1) Need for a clear RSE career path; education, recruitment and retention of a new generation of RSEs, especially in the Humanities and cultural heritage sectors;
- 2) The importance of domain-specific knowledge in RSE roles: to what extent are expertise of and challenges facing "RSEs for DH" different from those of RSEs working in other disciplines?
- 3) Challenges linked to developing, implementing and managing a Software Development Lifecycle (SLDC) that would be appropriate for the institutional context, the size and composition of the team, the nature of projects etc.;
- 4) Issues around sustainability and life of DH projects beyond the funding period.

Support for developing and maintaining expertise in RSE for DH, including provision of sustainable online training platforms, from European infrastructures was discussed in presentations by representatives of CLARIN-ERIC and DARIAH.

Some of the outcomes of the workshop:

- Interest in further workshops in RSE for DH and RSE training;
- Raising awareness of the community around DTech White paper <https://dh-tech.github.io/dhrse-whitepaper> and the proposed Alliance for Digital Humanities Organisations SIG in RSE;
- Continued discussion around setting up a UK-Ireland Network on DH with a working group focused on sustaining RSE expertise.