

# Dr Lucia Michielin

Centre for Data, Culture, & Society  
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## Current Position

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### EFI Digital Skills Training Manager

2020 – Present

*Centre for Data, Culture, & Society and Edinburgh Future Institute*

I manage and develop the CDCS Training Programme, which seeks to advance training on data-driven and applied digital methods for researchers across the College of Arts, Humanities, and Social Sciences. I am in charge of all aspects of the programme from the selection of themes and courses to be offered, to the planning of the allocated budget (~£30k per annum). The programme currently entails a mix of online and in-person delivery. I also organised three summer schools on data & text analysis.

## Education

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### PhD in Classical Archaeology

2014 – 2019

*University of Edinburgh*

Thesis title: *'Fores et fenestrae. A Computational Study of Doors and Windows in Roman Domestic Space.*

Supervised by Dr Ben Russell and Prof Jim Crow and examined by Dr Dominik Maschek and Dr Xavier Rubio-Campillo

### Scuola di Specializzazione in Archaeological Heritage

2011 – 2013

*Università degli Studi di Padova*

*Distinction, 70/70 cum laude*

### MSc in Geo-Computer Science applied to Archaeology

2010

*Centre for Geo-technologies, Università degli Studi di Siena*

*Distinction*

### MSc in Classical Archaeology

2007-2009

*Università degli Studi di Padova*

*Distinction, 110/110 cum laude*

### BA in Classical Archaeology and Ancient Topography

2005-2007

*Università degli Studi di Padova*

*Distinction, 110/110 cum laude*

## Publications

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### Monographs:

2021: *Fores et fenestrae. A Computational Study of Doors and Windows in Roman Domestic Space.* Archaeopress, Roman Archaeology 82.

### Edited Volumes:

2019: *Theoretical Roman Archaeology Journal*, 2(1), guest editor with M. Astolfi and K. O'Donnell.

### Articles & Book Chapters:

Forthcoming: 'Impact of (low) natural light in choice and perception of Roman house decoration' in *Quantifying the Subjective? Recent developments within Sensory Archaeology*, Special Issue of Time and Mind Journal.

In Press: 'Shedding Light in Roman Houses: Using 3D Reconstructions to Analyse the Use of Natural Light' in *Understanding Roman Archaeology by Experiment: A Handbook*, Bloomsbury.

2022: Notarian M., Carpentero G., Michielin L., Franconi T.V., Rice C.M., Bloy D. and Farney G.D., 'Digital Vacone: The Upper Sabina Tiberina Project's Transition from 2B Pencils to 3D Mesh', *Studies in Digital Heritage*, Vol 4, No.2.

2019: Michielin L., Astolfi M. and O'Donnell K., 'Increasing International Perspectives in Theoretical Roman Archaeology', *Theoretical Roman Archaeology Journal*, 2(1).

2016: Michielin L. and Strapazzon G., 'Il caso del sito delle Bestie Ferite (Aquileia). Dai sistemi proprietari non comunicanti ad un sistema integrato di gestione dei dati delle campagne di indagine', in P. Basso, A. Caravale, P. Grossi (eds.), ARCHEOFOSS. Free, Libre and Open Source Software e Open Format nei processi di ricerca archeologica. Atti del IX Workshop (Verona, 19-20 giugno 2014), 106-114.

2015: Michielin, L. Novello M., Santi M., 'Dal pronto intervento al restauro virtuale: il caso dello scavo della domus delle "Bestie Ferite" ad Aquileia (UD)' in *AISCOM. Atti Accademia Italiana per lo Studio e la Conservazione del Mosaico*, XX, 429- 436.

2015: Faresin E., Boschetti C., Salemi G., Salvadori M., Michielin L., 'Uno studio interdisciplinare del mosaico delle Bestie Ferite di Aquileia: rilievo 3D e rapid prototyping', in *AISCOM. Atti Accademia Italiana per lo Studio e la Conservazione del Mosaico*, XX, 703-710.

2012: Pescarin S., Lucci Baldassarri G., Cerato I., Michielin L., 'Laser scanner e Computer Vision a Montegrotto', in *Montegrotto Terme e il termalismo in Italia. Aggiornamenti e nuove prospettive di valorizzazione Atti del convegno Nazionale (14-15 Giugno) 2011*.

### Digital Resources:

2021–2022: Creation of online toolboxes 'Pathways of Learning' on digital and data-driven methods for researchers in Humanities and Social Science.

Michielin L. *Geographic Information Systems (Forthcoming)*

Michielin L., Wheldon D. *Working with 3D Data*

Havens L., Michielin L. *Text Analysis*

Michielin L. *Statistical Analysis*

Michielin L., Wang X. *Sentiment Analysis*

Michielin L. *Data Visualisation*

2020: Sufi S., Nenadic A., Ainsworth R., Michielin L., Crouch S., Antonioletti M., Peru G. 'Guidance for running online training' DOI [10.5281/zenodo.3923947](https://doi.org/10.5281/zenodo.3923947)

### Recent Professional Experience

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#### Training Fellow

2019 – 2020

*Centre for Data, Culture, & Society, University of Edinburgh*

I developed and delivered online and in-person data-driven training to enhance digital literacy across the Humanities and Social Science College, while identifying and implementing best practices of remote training delivery and asynchronous support

#### Coordinator of the Data Skills Workforce Development Data Carpentry

2020

*Software Sustainability Institute, University of Edinburgh*

I managed and planned a series of online workshops focused on data organisation and data mining, these courses were funded by the Scottish Funding Council (SFC) and aimed to upskill the Scottish workforce (budget £45 K)

#### Web Developer for the Database of Byzantine Literati Project

2019 – 2020

*School of History, Classics, and Archaeology, University of Edinburgh*

I implemented the Edinburgh Database of Byzantine Literati and maintained its Drupal-based website

<b>Digital Research Service Ambassador</b> <i>Digital Research Service, University of Edinburgh</i>	2019
I conducted outreach activities, developed knowledge-sharing networks within schools and colleges, and promoted the Digital Research Service in local research communities	
<b>Edinburgh Carpentries Coordinator</b> <i>Software Sustainability Institute, University of Edinburgh</i>	2019
I consolidated and developed sustainability for the Edinburgh Carpentry initiative, and performed UK Carpentry administration duties and supported outreach for the Edinburgh Carpentries project	
<i>Teaching Experience</i>	
<b>Digital and Computational Methods Instructor</b> <i>Centre for Data, Culture, &amp; Society, University of Edinburgh</i>	2019 – Present
Designed and taught online and in-person courses and workshops on databases theory and practice, data visualisation and statistics, version control, geographic information systems, data wrangling and cleaning, introduction to programming, data and text analysis, ocr, pca, cluster analysis, inferential statistics)	
<b>Data Carpentry Instructor</b> <i>University of Oxford, University of Edinburgh</i>	2017 – Present
I taught hands-on online and in-person training sessions in data organisation and data analysis	
<b>GIS for Archaeology workshop</b> <i>School of History, Classics, and Archaeology, University of Edinburgh</i>	2017
I designed and taught a workshop on the uses of Geographical Information Systems for Archaeologists	
<b>Guest Lecturer &amp; Tutor</b> <i>School of History, Classics, and Archaeology, University of Edinburgh</i>	2014 – 2017
I taught classes for the courses of Roman Art and Archaeology (sub-honours course) and Archaeology of Architecture (honours course). I taught tutorials and marked essays and tests for the courses of Roman World 1A and 1B (the Roman Republic and Empire), Greek Art and Archaeology, and Roman Art and Archaeology	
<i>Internships</i>	
<b>Internship at the Soprintendenza della Regione Veneto</b> <i>Soprintendenza della Regione Veneto</i>	2012
I developed a GIS system for storing and analysing Archaeological data of the Rovigo area	
<b>Internship at the Virtual Heritage Lab</b> <i>Virtual Heritage Lab, Institute for Applied Technologies in Cultural Heritage (CNR)</i>	2010 – 2011
I worked on a series of international digital cultural heritage project with task ranging from managing GIS data and process 3D models	
<i>Awards &amp; Grants</i>	
<b>Alan Turing Online Training Grant</b> <i>Alan Turing Institute</i>	2021
Organisation of the Digital Humanities & Research Software Engineering Virtual Summer School (£ 9,345 for the whole week £ 1,680 for the Edinburgh-led day). Partners: Alan Turing Institute, University of Cambridge and King's College London	
<b>Baldwin Brown Travelling Scholarship</b> <i>Baldwin Brown Travelling Scholarship</i>	2014 – 2017
Scholarship to Support on-site survey during my PhD (£ 1,183)	
<b>School Doctoral Teaching Award</b> <i>School of History, Classics, And Archaeology</i>	2014 – 2017

Scholarship to Support my PhD (£ 45 K)

**Assegno di Ricerca**

2013 – 2014

*Università' di Padova*

Award granted by the Università degli Studi di Padova for the creation and management of a GIS platform of the excavation of the 'Bestie Ferite' in Aquileia (two separate awards of ~ £1200)

**First ranked Award**

2010

*Centre for Geotechnologies, Univerisita' di Siena*

Award granted as top of the class for the master Master of Science in Technology applied to archaeology (~ £ 2 K)

*Presentations & Posters Selection*

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- Otty L., Michielin L., Wittie J. *The CDCS Rapid Prototyping Sandpit*, **DH-RSE Summer School 2023**
- Nenadic A., Antonioletti M., Steyn J., Walker A., Michielin L., Sauze C., Konovalov A., Cohen J. *Carpentries Superstars: How to Make the Best of Your Teaching Experience*, **Collaboration Workshop 2023**
- *Impact of (low) natural light in choice and perception of Roman house decoration*, **Nordic TAG 2022** –Nordic Theoretical Archaeology Group
- *Teaching Digital Methods at the University of Edinburgh. The CDCS Example*, **Digital Humanities Roundtable: 'Where' Affects 'How' We Teach 2022**
- *Teaching and Learning Digital Methods and Skills for Cultural Heritage*, Digitalisation and Interdisciplinary Research in Social Science – **AHRC Techne' 2022** (Brunel University London)
- *Data Analysis. How to do it?*, **SGSAH workshop 2022**. Data, Empirical Research and Legal Scholarship – What is it all about? Scottish Graduate School for Arts Humanities
- *Supporting CAHSS Researchers Through Digital Skills Training: the CDCS Example*, **Digital Skills Festival 2021**
- Gaul N., Spingou F., and Michielin L. *Before and After 1204: A New Database on Byzantine Literati and the Case of the Choniates Brothers*, **Digital Workshop. Bridging the Gap: the Prosopography of a Fragmented World (13th Cent.) 2021**
- Antonioletti M., Bouquin D., Katz D.S., Michielin L., Sauze C., and Whalley L. *What does training in software sustainability look like?*, **SSI Collaboration Workshop 2019** –Speed Blog Post Series
- *Shedding Light in Roman Houses: Using 3D Reconstructions to Analyse the Use of Natural Light*, **TRACamp 2018** - Theoretical Roman Archaeology Workshop on Experimental Archaeology
- Michielin L. and Soucek J. *Where imagination fails: New possibilities of presenting the unexcavated*, **CAA UK 2018** – Computer Application and Quantitative Methods in Archaeology
- *Lightning the ancient Rooms: Using the 3D reconstructions to analyse the importance of the doors and windows barriers in the life of the Roman Private Houses*, **AIAC 2018** - International Congress of Classical Archaeology
- *The "Ikea" of Roman Doors. Standardization in Hinge Production across Imperial Italy*, **2018 RAC/TRAC** – Roman Archaeology Conference and Theoretical Roman Archaeology Conference
- *"The Brick Fever": Tracing the Fluidity of Roman Houses' Boundaries through the Analysis of Changes in Doors and Windows*, **University of Edinburgh Archaeology Seminar Series 2017**
- *'Doors and Windows through the Romans eyes: Literary, epigraphic and visual sources: Some examples'*, **University of Edinburgh Classics Postgraduate Seminars 2016**
- *A foot in the door. A new approach to the analysis of doors and windows in Roman houses*, **RAC/TRAC 2016** – Roman Archaeology Conference and Theoretical Roman Archaeology Conference
- *A theoretical approach to 3D reconstruction. The case study of Aquileia in the late antiquity*, **Heritage and Cityscapes International Workshop**
- *Una Pipeline open per la ricostruzione 3D in archeologia*, **The GNewArchaeology Workshop 2011**

*Conferences & Intensive Course Organisation*

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**Summer Schools in Text & Data Analysis**

2021 – 2023

*Centre for Data, Culture, & Society (Edinburgh University)*

Three iterations (one online and two in-person). Week-long hands-on events with an average of 100 requests each year

### **Digital Humanities & Research Software Engineering Summer School**

2021 – 2023

*Centre for Data, Culture, & Society (Edinburgh University)*

In collaboration with Alan Turing Institute, University of Cambridge, King's College London. Two iterations (one online, one hybrid)

### **SFC Data Carpentry Workshop Series**

2020

*Software Sustainability Institute (University of Edinburgh)*

Series of seven two-day online workshops with the aim of upskilling the Scottish workforce

### **28th Theoretical Roman Archaeology Conference**

2018

*School of History, Classics, and Archaeology (University of Edinburgh)*

Head of the Local Organising Committee, liaise with the RAC Organising Committee

### **GIS in Archaeology Workshop Series**

2012

*University di Padova*

### *Data Driven & Digital Skills*

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**Main Programming Languages** (text and data analysis, statistics, data visualisation, web scraping): R, Python

**Other Coding Languages:** Php, Css, Regex, LaTeX, Markdown, HTML

**Databases:** Access, OpenBase, SQL and SQLite, SpatialLite

**2D and 3D Modelling:** Rhinoceros, Autodesk, 3D Studio Max, Blender, AutoCAD

**GIS and Remote Sensing:** ESRI ArcGIS, GRASS, QGIS

**Laser Scanner and Total Station:** Riegl, Trimble, Leica, Topcon

**Photogrammetry and 3D Processing:** Metashape, MeshLab, 3DF Zephyr, Meshroom

**Network Analysis:** Gephi

**Graphics and Web Developing:** Photoshop, Gimp, Illustrator, Canva, Drupal, WordPress

### *Fieldwork Experience*

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**2016 – Present:** GIS and survey specialist for the Upper Sabina Tiberina Project (Vacone), Rutgers University, Brown University (Roman Villa)

**2016 – 2018:** Survey coordinator for the Aeclanum Excavation, University of Edinburgh and Apolline Project (Roman Town)

**2013 – 2014:** GIS supervisor for the “Domus delle Bestie Ferite” excavation in Aquileia (UD-Italy), Università di Padova (Roman Villa)

**2011:** Excavation and survey at the Canaro and Cavarzere excavations, ArchaeoEd s.r.l (Roman and Medieval settlements)

**2008:** Excavation and survey at the Riva del Garda excavation, Cora s.n.c. (Neolithic settlement)

**2004 – 2007:** Excavation and survey at a series of Università di Padova in Italy and Croatia (Roman villas and Medieval settlements)

### *Academic References*

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Brown University  
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Senior Lecturer of Classical Archaeology  
University of Edinburgh  
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