Dr Lucia Michielin

Current Position:

Digital Skills Training Manager (CDCS and EFI):
Managing and developing the CDC Training Programme.
The CDCS Training programme focuses on identifying and providing a variety of training on applied digital research to respond to researchers' needs across the College. The Programme aims to help researchers within the CAHSS College that wants to embed digital and data-driven methods in their research.

Education:

PhD in Classics, University of Edinburgh: 2014/19

'*Fores et fenestrae.* A computational study of doors and windows in Roman domestic space'. Supervisors: Dr Ben Russell, Prof. Jim Crow. Examiners: Dr Dominik Maschek (external) and Dr Xavier Rubio-Campillo (internal).

Scuola di Specializzazione (Specialisation School) in Classical Archaeology Heritage, University of Padua: 2011/13. Classical Final mark: 70/70 *cum laude.*

MSc Computer Science applied to Archaeology, CGT (Centre for Geo-technologies), Siena University: 2010. Final mark: Excellent.

MSc Classical Archaeology, University of Padua: 2007/09. Final mark: 110/110 *cum laude.*

Bachelor in Classical Archaeology and Ancient Topography, University of Padua: 2004/07. Final mark: 110/110 *cum laude*.

Teaching and Coordinating Experience:

Training Fellow for the Centre for Data, Culture & Society (University of Edinburgh) 2019-ongoing.
- Developed and delivered computer-based (in person and online) training to enhance informatics literacy across the Humanities college (Databases, Latex, Git, Data visualisation and Statistics in R).
- Review of available resources, analysing demand.
- Developed a workflow for processes of proposing and delivering facilitated training.
- Identified and implemented best practice for online delivery.

Coordinator of the Data Skills Workforce Development Data Carpentry for the Software Sustainability Institute 2020 -ongoing (The University of Edinburgh)
- Created a program of seven workshops based on the Carpentries models. The 2-days workshops focus on fundamental tools and methods for data entry, cleaning, analysis and visualisation, using sample datasets. They are part of a portfolio of short courses designed to employees to upskills in the area of digital data. These courses were funded by the Scottish Funding Council (SFC) Upskilling Fund.
- Organised and optimised online delivery (had to be moved from a physical to an online delivery mechanism at very short notice because of the Covid-19 lockdown).

- Identified audiences and negotiated training requirements.
- Recruited and coordinated instructors and helpers.

Web Developer for the Database of Byzantine Literati project (HCA) 2019-ongoing (University of Edinburgh)
- Implement the Edinburgh Database of Byzantine Literati. The project aims to map literary performances and individual *literati* in Byzantium.
- Maintain its Drupal-based website.

Ambassador for Digital Research Services 2019 (University of Edinburgh)
- Conducted outreach activities.
- Developed knowledge-sharing networks within schools and colleges.
- Promoted digital research services in local research communities.

Edinburgh Carpentries Coordinator for the Software Sustainability Institute 2019 (University of Edinburgh)
- Consolidated, developed and provided sustainability for the Edinburgh Carpentry platform (workshops on software developing, data wrangling and analysis, and library catalogue managing).
- UK Carpentry Administration and outreach of the Edinburgh Carpentries project.

Head of the organising committee for the 2018 Theoretical Roman Archaeology Conference 2017/18 **(**University of Edinburgh)
- Organised the call for sessions and papers and took care of the logistics of the conference (e.g. booking venues and creating all publication materials).
- Led the Theoretical Roman Archaeology Conference local committee and liaised with the Roman Archaeology Conference committee.
- Coordinated and organised the work of around 20 postgraduate helpers.

Guest lecturer in Classics and Archaeology for the School of History, Classics and Archaeology 2016/17 **(**University of Edinburgh**)**
- Designed and taught classes at Honours (3rd and 4th year) and sub-Honours (1st and 2nd year) level for the courses on *The Archaeology of Architecture and Roman Art and Archaeology*.

Survey Coordinator for the Upper Sabina Tiberina Project and the Aeclanum excavation 2016-ongoing (University of Edinburgh, Rutgers University, Alberta University, Apolline Project)
- Recorded survey data, GIS, 3D reconstructions, and Photogrammetry at the archaeology excavations of Vacone and *Aeclanum* (Italy).
- Supported and educated students on digital archaeological methods.
- Collaborated and liaised with the trench supervisors to produce the digital documentation.
- Produced 3D and 2D material for public archaeology and dissemination projects.

Tutor in Classics for the School of History, Classics and Archaeology 2014/17 **(**University of Edinburgh)
- Run tutorials and did marking for the course of Roman World 1A, 1B (the Roman Republic and Empire), Greek Art and Archaeology, and Roman Art and Archaeology.

Data Carpentry Instructor 2017/20 **(**Oxford University – University of Edinburgh)

● Instructor on a series of DataCarpentry workshops on the subject of Spreadsheet, Openrefine and SQL.

GIS Supervisor 2013/14 **(**Universita' degli Studi di Padova)
　　● Developed a long-term geographical information system for the analysis of the survey data for the "Domus delle Bestie Ferite" excavation in Aquileia (UD-Italy).
　　● Provided support and educated students on digital archaeological methods.

Organiser and instructor for GIS and archaeology workshops 2012 (Universita' Degli Studi di Padova)
　　● Organised, developed, and taught a seminar series on GIS best practices in Archaeology.
　　● Took care of the logistics of seminar series

Training and Internships:

Instructor Training 2020 **(**Carpentries)
　　Training to become an official instructor for the Carpentries. instructional pedagogy and practicalities of teaching live coding and computational subjects.

Internship on managing of the Cultural Heritage 2012 **(**Soprintendenza of the Veneto region)
　　Developed a long-term geographical information system for the organization and analysis of the Archaeological data of the Area of Rovigo.

Internship on digital tools for the Cultural Heritage 2010/11 (Virtual Heritage Lab. Institute for Applied-Technologies in Cultural Heritage. National Research Council)
　　Photogrammetry, GIS data management and processing of 3D models. Involved in several heritage projects **(**West Han Dynasty archaeological landscape, Bononia 3D, Aquae Patavinae).

Computer Training and Skills

Coding Language: Python, Git, Php, R, Css	**3D processing:** MeshLab
Structure from Motion: Arc3d, Python Photogrammetry Toolbox, MetaShape	**Laser Scanner and Total station:** TOF laser-scanner (Riegl). Trimble, Leika, Totpcon, Total stations
Database: Access, OpenBase, SQL and SQLite	**Photogrammetry:** Erdas
GIS: ESRI ArcGIS, GRASS, QGIS	**2D and 3D Modelling:** Rhinoceros, Autodesk 3D Studio Max, Blender, AutoCAD
Statistic and Data visualisation: RStudio	**Web Developing:** Drupal, WordPress
Graphics: Photoshop, Gimp, Illustrator	

Publications

1. Michielin L. (forthcoming), *Fores et fenestrae.* A computational study of doors and windows in Roman domestic

space, Archaeopress.

2. Michielin L. (forthcoming), "Shedding light in Roman houses: using 3D reconstructions to analyse the use of natural light" in "Understanding Roman Archaeology by Experiment: A Handbook", Bloomsbury'.

3. Michielin L. and Soucek J. (forthcoming), 'Topographic and Architectural Documentation in *Aeclanum*' in F. De Simone and B. Russell, *Excavation and Survey at* Aeclanum. *2016-2018,* FOLD&R.

4. Michielin L., Astolfi M. and O'Donnell K. 2019, 'Increasing International Perspectives in Theoretical Roman Archaeology', *Theoretical Roman Archaeology Journal,* 2(1), p.11. DOI: http://doi.org/10.16995/traj.415

5. Michielin L. and Strapazzon G. 2016, '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.

6. Michielin L. 2016, 'La ricostruzione 3D della domus delle "Bestie Ferite" di Aquileia', in F. Stanco and G. Gallo (eds.), ARCHEOFOSS. Free, Libre and Open Source Software e Open Format nei processi di ricerca archeologica. Atti del IX Workshop (Catania, 18-19 giugno 2013), 83-90.

7. Michielin, L. Novello M., Santi M. 2015, '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. Roma 19-22 marzo 2014, 429- 436.

8. Faresin E., Boschetti C, Salemi G., Salvadori M., Michielin L. 2015, '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. Roma 19- 22 marzo 2014, 703-710.

9. Pescarin S., Lucci Baldassarri G., Cerato I., Michielin L. 2012, '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.

Awards and Scholarships

2014-2017: Baldwin Brown Travelling Scholarship (on three occasions for a total of £1183) to cover the costs of the on-site surveys in relation to the PhD research.

2014-2017: School Doctoral Teaching Award funding my PhD at the University of Edinburgh (£15,000/year).

2013-2014: *Assegno di Ricerca.* Award granted by the Universita' 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/year).

2010: Tax refund (50%) as 1st ranked in the Master of Science in technology applied to archaeology at the CGT (Centre for Geotechnologies), Universita' Degli Studi di Siena.

Seminar Papers, Posters

I have presented numerous research papers at a series of conferences and workshops in the UK, Italy and Germany. I delivered talks about different aspects of my research at various editions of Theoretical Roman Archaeology Conference (TRAC) and Roman Archaeology Conference (RAC), as well as at the International Congress of Classical Archaeology (Cologne/Bonn AIAC 2018).

<u>Other skills</u>

● *Full Driving license (A- motorcycle, and B- Car)*
● *Modern Language proficiency: Italian -Native speaker, English – fluent (speaking, reading, writing), French – fluent (speaking, reading, writing), Spanish – basic (reading)*
● *Hand and digital drawing for products labels and caricatures*
● *Italian and IT teacher for refugees and immigrants (Charity organization)*
● *BT Premiership player (Scottish Rugby Union)*