ESR 11
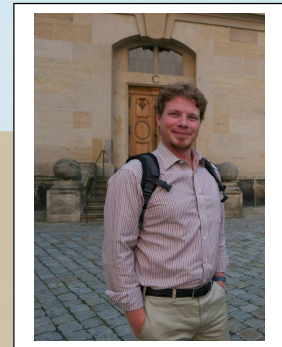
Name: Matthew Luke Vicent

Your credentials: BA Theology, Biblical Languages, MA Anthropological Archaeology, Post-graduate Certificate GIS

Start day: 15/6/14 **End day:** 15/6/16

Involved in WP: WP1, WP5, WP7 Hosting Institution: UMU

My Research Training Activity in ITN-DCH

A. Summary of the Career Development Plan:

The primary focus of my research with the ITN-DCH is the management and integration of the data requirements from the various facets of cultural heritage. With these requirements in mind, I will further investigate cost-effective solutions to implement the necessary data-recording, publishing, curation, and management of the metadata for cultural heritage. In part, this will require a specific study on the implementation of metadata for intangible heritage recording, and interfaces to bring this about. Finally, I will also be looking at the integration of mixed-reality and augmented reality environments and the integration of these data into such environments.

B. Core Research Training Activity:

Each of the conferences, workshops, meetings, secondments, etc. listed below constitute as training activities, they are listed briefly here for ease, although some will be elaborated below.

CIDOC2014 Conference, Dresden, September 2014

Secondment to KAAK, DAI, Bonn, Germany, September 2014

Arqueologica 2.0 Conference, Ciudad Real, Spain, October 2014

ITN-DCH Summer School, Stuttgart, October 2014

EuroMed ITN-DCH Meeting & Conference, Limassol, Cyprus, November, 2014

Secondment to FORTH, Heraklion, Crete, January 2015

Secondment to CUT, Limassol, Cyprus, February 2015

ITN-DCH Workshop, Carnuntum, Austria, March 2015

CAA Conference, Siena, Italy, March 2015

Secondment to FBK, Trento, Italy, March 2015

1st ISPRS / CIPA Underwater Photogrammetry and 3D Modelling Workshop, Piano di Sorrento, Italy, April 16,17, 2015

C. **Secondments:**

1. KAAK: for one month (from: Sep 6 to Sep 29, 2014)

    The main mission of this particular secondment was to learn about MayaArch3D and the web-based 3D viewer and 2D GIS viewer developed for visualising their data. Although it has been used for Central American data, the platform is an ideal starting point for heritage projects wishing to implement similar sorts of analytics.

2. FORTH: for three weeks (from: Jan 11 to Jan 31)

    The main objective of this secondment was to learn about CIDOC-CRM and be trained in on the practical work of mapping projects to the CIDOC-CRM.

3. CUT: for two weeks (from: Feb 1 to Feb 15)

    The main objective of this secondment was to carry out several digitisation projects at Asiou and Ayios Neofytos, engage with local associated partners (CyBC and eSelis) to learn about their contributions to the project and discuss ways we can collaborate with them regarding our case studies.

4. FBK: for one month (from: April 6 to Apr 30)

    The main objective of this secondment was to explore applications of 4D photogrammetry as well as explore other requirements of photogrammetric processing (particularly subaquatic) to include as part of our overall work on heritage requirements.

5. CNRS: for one month (from: May 1 to May 31)

    Not yet undertaken, but will be completed before the mid-term review. This secondment should be working with 3D metadata documentation, likely with an emphasis on the virtual reality applications and architectural documentation.

D. **Dissemination & Outreach:**

Public Events:

European Researchers Night, Braunschweig, Germany, September 2014

Presentation to School Group, EuroMed, Limassol, Cyprus, November 2014

Open Lab Night, University of California, San Diego, California, USA, Representing ITN-DCH, November 2014

Round-table on Digital Cultural Heritage, Universities and Private Sector, Almeria, Spain, December 2014

University Lecture, Cyprus University of Technology, Limassol, February 2014

University Lecture, University of Cyprus, Nicosia, February 2014

Seminar series on Applied Photogrammetry, Universidad de Murcia, Murcia, Spain

Presentation to Archaeology Lab, Universidad de Murcia, Murcia, Spain

Public Lecture on Digital Cultural Heritage, Universidad de Murcia, Murcia, Spain (televised)

Publications, Conference Papers, and Posters

Ioannides, M., Lopez-Menchero Bendicho, V. M., Grande Leon, A., Flores Gutierrez, M., Doerr, M., & Vincent, M. L. (2014a). Initial training net- work for digital cultural heritage: Projecting our past to the future [Poster]. Dresden, Germany.

Ioannides, M., Lopez-Menchero Bendicho, V. M., Grande Leon, A., Flores Gutierrez, M., Doerr, M., & Vincent, M. L. (2014b). The seville principles and 3d documentation of digital heritage [Conference Paper]. Dresden, Germany.

Vincent, M. L., Gidding, A., & Levy, T. E. (2014). The UCSD Cyberarchaeology data framework: Unifying disparate data [Conference Paper]. San Diego, California.

Vincent, M. L., & Gutierrez, F. (2014). Digital documentation: The good, the bad, the ugly and the lessons learned from the trenches of Jordan [Conference Paper]. Ciudad Real, Spain.

Vincent, M. L., Kuester, F., & Levy, T. E. (2014a). Opendig: Contextualizing the past from the field to the web. Mediterranean Archaeology and Archaeometry , 14 (4), 109–116. Retrieved from http://dx.doi.org/10.5281/zenodo.13711

Vincent, M. L., Kuester, F., & Levy, T. E. (2014b). Opendig: Digital field archaeology, curation, publication, and dissemination. Near Eastern Archaeology , 77 (3), pp. 204-208. Retrieved from http://www.jstor.org/stable/10.5615/neareastarch.77.3.0204

Vincent, M. L., Lopez-Menchero Bendicho, V. M., & Flores Gutierrez, M. (2014). Mashups and the archaeological web: Popular data mashups on the web today and how they can influence how we structure and approach archaeological data [Conference Paper]. Dresden, Germany.

Vincent, M. L., Lopez-Menchero Bendicho, V. M., & Flores Gutierrez, M. (2015). OpenDig: Applying CIDOC-CRM and CRMarchaeo to in-field Data Recording [Conference Poster]. CAA2014, Siena, Italy.

E. <u>**Added Value**</u> **to my Future Research Career:**

The ITN-DCH has been the most valuable addition to my formation as a cultural heritage professional. As a fellow, we are given access to heritage professionals at many different levels to engage with as part of our own professional development. This means that we have the opportunity to learn from people from a diverse set of backgrounds, and thanks to the mobility, it is like we are studying at 14 different universities rather than just one. In addition to the professionals, we also have the opportunity to engage with stakeholders of cultural heritage. One such event was the conversation with Interpol during EuroMed in November 2014. This is a rare moment to learn how they deal with looted antiquities and a very clear chance to learn how we, as heritage professionals, can best provide them with the needed material to identify and recover looted heritage. Furthermore, the project advisors are happy to work with us as individuals, providing constructive criticism of our work and trajectory as a project, and research as fellows. While such a traineeship can be intense, the benefit far outweighs that of any other programme I could be in at this point in time. I feel like I have been exposed to more information and material in the 10 months I have been a fellow, than the entire time when I was engaged in my MA at UC San Diego, California.