GIOVANNI SVEVO

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PROFESSIONAL SUMMARY

In my work as a professional archaeologist, I have specialized in the use of GPS and GIS software, applying this knowledge to archaeological fieldwork and focusing on the integration of different data sources in GIS environments. I received formal training in GIS, cartography and web development at Oregon State University, where I obtained an MS in Geography and a Graduate Certificate in Geographic Information Science. In recent years my work has focused on Digital Humanities projects in collaboration with cultural institutions and universities. As a freelancer I create geo-visual web applications using exclusively open source software.

SKILLS

- **Geographic Information Science** - Processing and analyzing raster and vector geospatial data; working experience with ESRI ArcGIS software and extensions, as well as open source GIS software; experience developing and maintaining GIS databases
- **Cartography** – In-depth knowledge of cartographic design and production concepts and principles; multi-year experience in the creation of mapping products and in the development of web-based mapping applications
- **Web Development** - Creation of geo-visual web applications using HTML, CSS, JavaScript and JQuery; database management and data query using MongoDB and JSON files; basic knowledge of Python scripting
- **Archaeology** - BA and Professional Doctorate in Classical Archaeology; fifteen years experience conducting archaeological excavations and surveys; management of complex excavations using GIS and photogrammetry
- **Photogrammetry** - Use of Structure from Motion techniques to document archaeological excavations; creation of georeferenced 3D models to perform spatial analyses and generate scaled drawings of archaeological features
- **Digital Humanities** - Development of interdisciplinary projects to digitize historic archives and enhance their accessibility; application of web technologies to permanently preserve and assure open access to digital collections

RECENT WORK EXPERIENCE

GIS Analyst (Graduate Researcher)   Oregon State University, 9/2018-9/2019

Lead Cartographer and Designer for the 'Global Refugee Atlas', a project funded by a grant from the National Geographic Society's Committee for Research and Exploration.

- Collected, analyzed and transformed geospatial data from a trove of different open sources

- Designed the website's structure in order to achieve the project's objectives
- Developed interactive maps and storytelling tools using JavaScript, JQuery, D3.js, Leaflet.js, Mapbox-gl.js and Storymap.js
- Set up a Linux server on Digital Ocean and run Python scripts to retrieve daily data from the web
- Visualized data collected on the server with automatic daily updates to visualize basic sentiment analyses
- Retrieved satellite imagery through Google Earth Engine and created interactive diachronic maps showing the growth of individual refugee camps

GIS Analyst (Independent Contractor)   Parco Archeologico di Ostia Antica, 5/2018-10/2019

Created and developed a webGIS platform ([NADIS - Nuovo Archivio Disegni](#)) to access and explore drawings and images of the excavations of Ostia Antica hosted in the archive's database

- Collected and georeferenced geospatial data relevant to the area of the project
- Designed the structure for an interactive website to allow a topographic, rather than textual, approach to the drawings' collection
- Integrated in the website an external open source tool to visualize individual images
- Implemented additional features such as basic textual search (using geoJSON files), user geolocation for mobile version and measurement tools

GIS Analyst (Independent Contractor)   Parco Archeologico di Ostia Antica, 4/2017-3/2018

Created and developed a webGIS platform ([GISMondi](#)) to manage archeological and administrative data

- Georeferenced vector and raster geospatial data relevant to the area of the project
- Designed and developed an interactive website integrating textual documents and geographic features.
- Vectorized paper drawings and georeferenced historic excavation plans
- Customized code using JavaScript, Leaflet.js and Bootstrap.js

DH Specialist (Research Associate)   University of Oregon, 6/2017-1/2018

Research Associate in the project '[The Urban Legacy of Ancient Rome: Photographs from the Ernest Nash Fototeca Unione collection](#)', an interdisciplinary project between University of Oregon, Stanford University, Dartmouth College and American Academy of Rome, funded by the Kress Digital Resources Grant Program 2017

- Analyzed and selected historic archaeological photographs
- Geolocated all images on contemporary and historical maps of Rome
- Created an interactive map displaying the location of all the digitized images
- Managed data toward integration with the Stanford Digital Repository standards for open data

DH Specialist (Project Director)   University of Oregon, 9/2015-2/2017

Principal researcher in the project '[Nova Forma Urbis Romae: mapping the Fondo Rodolfo Lanciani collection](#)', an interdisciplinary project between University of Oregon, Stanford University, Dartmouth College and *Istituto Nazionale di Archeologia e Storia dell'Arte* of Rome, funded by the Kress Digital Resources Grant Program 2015

- Managed different aspects of the project including communication with stakeholders
- Analyzed and selected historic archaeological drawings and photographs
- Geolocated all images on contemporary and historical maps of Rome
- Managed digital representation and editing of the images
- Managed data toward integration with the Stanford Digital Repository standards for open data

Archaeologist/Topographer   Comune di Rieti, 12/2014-9/2015

Directed, managed and executed archaeological excavations connected to extensive public works in the historic city center of Rieti (Italy)

- Managed in GIS environment all data related to the excavations
- Used Structure from Motion techniques to document archaeological excavations
- Created georeferenced 3D models to perform spatial analyses
- Generated georeferenced scaled drawings of archaeological features
- Generated georeferenced DTM of the excavated areas and integrated in the GIS environment

PREVIOUS WORK EXPERIENCE

- ➢ **2010-present:** Co-founder and Technical Director of *Actus srl*, an Italian company providing archaeological and topographical services
- ➢ **2002-2010:** Contract Archaeologist and Topographer; consultant to several Italian national archaeology agencies

EDUCATION

MASTER OF SCIENCE IN GEOGRAPHY, 2019 – *Oregon State University*. Curriculum focused on GIS, System Architecture for Web Mapping and Data Visualization using JavaScript and Python.

PROFESSIONAL DOCTORATE (*DIPLOMA DI SPECIALIZZAZIONE*) IN CLASSICAL ARCHAEOLOGY, 2007 – *Università di Roma 'La Sapienza'*. Thesis in Latin Epigraphy ('*Lorium* in the Roman Period: Epigraphy and Topography').

BACHELOR'S DEGREE (*LAUREA QUADRIENNALE*) IN CLASSICAL ARCHAEOLOGY, 2002 – *Università di Roma 'La Sapienza'*. Thesis in Ancient Numismatics ('Topography and Numismatics of *Teanum Sidicinum*').

Graduate GIScience Certificate, *Oregon State University* – September 2019

Certification in 'Preventive archaeology and archaeological risk management', *LUISS Business School*, Rome, March – December 2012

Geophysics and Aerial Photography for Archaeology, CNR - Consiglio Nazionale delle Ricerche (National Research Council) - Istituto di Tecnologia Applicata ai Beni Culturali, Aquino, June 2011.

Theory and Methods for Satellite Global Positioning Systems for Topography and Zoning, Leica Geosystems S.P.A., Rieti, May 2011.

Geographic Information Systems and GIS Geodatabases, GIS Land, Florence, April-May 2008

PUBLICATIONS

G. Svevo, S. Barrano, *"Archeologia Urbana a Rieti (riqualificazione PLUS 2015): nuovi dati per la storia e per la topografia della città"*, in *"Archeologia urbana a Rieti: da palazzo Aluffi agli scavi PLUS"*, Rieti 2019

G. Svevo, *"Storia e topografia del territorio di Lorium"*, in *La villa delle Colonnacce*, Soprintendenza Speciale per i Beni Archeologici di Roma, Rome 2016

G. Svevo, R. Valente, *"Nuove metodologie di rilievo e valorizzazione",* in *"La ripresa delle ricerche del PIAC al San Calocero di Albenga", Rivista di Archeologia Cristiana*, Rome 2015

S. Mineo (ed.), with L. Giammichele and G. Svevo, *Gli otto libri quali narreno di varie et diverse cose apertinenti alli cacciatori, di Domenico Boccamazza (1548)*, Miscellanea della Societa' Romana di Storia Patria, Rome 2015

G.Svevo, *"I bolli laterizi provenienti dallo scavo"*, in *Il mausoleo di Marco Nonio Macrino sulla via Flaminia*, Soprintendenza Speciale per i Beni Archeologici di Roma, Rome, 2012

G. Svevo, *"La strada, la cava e la necropoli di via Cesaro"* in *Bullettino della Commissione Archeologica Comunale di Roma* 109 (Rome, 2009), pp. 422-424.

D. Rossi and G. Svevo, *"Un mosaico con medusa dal complesso termale della villa di Olivella (Castel di Guido, Roma)"*, in *Atti del XIII colloquio dell'Associazione Italiana per lo Studio e la Conservazione del Mosaico* (Tivoli, 2008), pp. 487-491.

G. Svevo, "Il territorio di Massimina in età imperiale" in D. Rossi (ed.) *Archeologia a Massimina* (Rome, 2008), pp. 111-114.

PROFESSIONAL LEADERSHIP AND SERVICE

Associazione Nazionale Archeologi (Italian Association of Professional Archaeologists)

- National Director, March 2010 – March 2019