

# Andrea Titolo

RESEARCH FELLOW

Department of Ancient World Studies, Sapienza University of Rome

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## Research Interests

Landscape Archaeology; Remote Sensing; GIS; Quantitative Analyses; Near Eastern Archaeology

## Current Position

### Research Fellow

SAPIENZA UNIVERSITY OF ROME

Rome, IT

07/2020-present

- Member of the Project PRIN 2017: 'Fluid Crescent Water and Life in the Societies of the Ancient Near East'
- Responsible for the GIS, Remote Sensing, and Archaeological Landscape research

## Education

### PhD in Near Eastern Archaeology

SAPIENZA UNIVERSITY OF ROME

Rome, IT

10/2016-02/2020

- Dissertation: Beyond the River. Settlement Patterns and Models of Occupation along the Euphrates in Syria and Iraq during the Iron Age.
- Tutor: Prof. Davide Nadali

### Master of Arts, Near Eastern Archaeology

SAPIENZA UNIVERSITY OF ROME

Rome, IT

09/2014-09/2016

- Thesis: Distribution and nature of settlements along the Middle Euphrates in Syria and Iraq in the Early Iron Age (X-IX sec. B.C.)
- Supervisor: Prof. Davide Nadali; Co-Supervisor: Dr. Sara Pizzimenti

### Bachelor of Arts, Archaeology

SAPIENZA UNIVERSITY OF ROME

Rome, IT

09/2011-09/2013

- Thesis: Sargon II military campaign against Urartu (714 B.C.)
- Supervisor: Prof. Maria Giovanna Biga

## Other Certified Educational Experiences

### Winter School R4 ARchaeologists

DEPARTMENT OF CIVILIZATIONS AND FORMS OF KNOWLEDGE, UNIVERSITY OF PISA

Pisa, IT

01/2020-02/2020

- Organized by the Mappa Project

### Study Abroad Period

UNIVERSITY COLLEGE LONDON (UCL)

London, UK

03/2019-05/2019

- Aim: study and enhance skills and techniques of quantitative analysis in archaeology using R, with a specific focus on settlement pattern analysis
- Supervisor: Prof. Mark Altaweel

### Study Abroad Period

DURHAM UNIVERSITY

Durham, UK

04/2019-06/2019

- Aim: study and enhance skills and techniques of the Landscape Archaeology and Remote Sensing, with a specific focus on orthorectification and georeferencing of the declassified CORONA satellite images
- Supervisor: Prof. Dan Lawrence

### GIS Course

ISTITUTO SPALLUCCI

Rome, IT

10/2016

- GIS Open Source Advanced (QGIS)
- Organized by Terrelogiche SRL
- GIS Open Source: QGIS
- Organized by Terrelogiche SRL

## Fieldwork

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### Member of Archaeological Expedition

LEBANESE-ITALIAN ARCHAEOLOGICAL EXPEDITION IN THE REGION OF TYRE

- Archaeological Survey
- Responsible for GIS and Remote Sensing Survey

*Tyre, LB*  
08/2019-present

### Member of Archaeological Expedition

ITALIAN ARCHAEOLOGICAL EXPEDITION AT NIGIN

- Archaeological Excavation
- Responsible for GIS and Remote Sensing Survey

*Dhi-Qar, IR*  
11/2015-present

### Archaeologist - Area Supervisor

ITALIAN ARCHAEOLOGICAL EXPEDITION AT NIGIN

- Archaeological Excavation
- Directed by Prof. D. Nadali (Sapienza University of Rome) and by Prof. A. Polcaro (University of Perugia)

*Dhi-Qar, IR*  
10/2021

### Assistant Director

LAGODEKHI ARCHAEOLOGICAL SURVEY PROJECT

- Archaeological Survey
- Directed by Dr Kristen Hopper (Durham University) and Prof. Elena Rova (Ca' Foscari University of Venice)

*Lagodekhi, GE*  
07/2018

### Archaeologist - Area Supervisor

ITALIAN ARCHAEOLOGICAL EXPEDITION AT NIGIN

- Archaeological Excavation
- Directed by Prof. D. Nadali (Sapienza University of Rome) and by Prof. A. Polcaro (University of Perugia)

*Dhi-Qar, IR*  
11/2017

### Archaeologist

COPPA NEVIGATA

- Archaeological Excavation
- Directed by Prof. A. Cazzella (Sapienza University of Rome).

*Manfredonia, IT*  
09/2017

### Archaeologist

ITALIAN ARCHAEOLOGICAL EXPEDITION AT NIGIN

- Archaeological Excavation
- Directed by Prof. D. Nadali (Sapienza University of Rome) and by Prof. A. Polcaro (University of Perugia)

*Dhi-Qar, IR*  
10/2016

### Archaeologist

CAMPAGNA DI SCAVO A COPPA NEVIGATA

- Archaeological Excavation
- Directed by Prof. A. Cazzella (Sapienza University of Rome).

*Manfredonia, IT*  
09/2016

### Archaeologist

ITALIAN ARCHAEOLOGICAL EXPEDITION AT NIGIN

- Archaeological Excavation
- Directed by Prof. D. Nadali (Sapienza University of Rome) and by Prof. A. Polcaro (University of Perugia)

*Dhi-Qar, IR*  
10/2015

### Student

CAMPAGNA DI SCAVO A COTTANELLO

- Archaeological Excavation
- Directed by Prof. P. Pensabene (Sapienza University of Rome).

*Cottanello, IT*  
09/2013

## Journal Articles

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Sconzo, P., Qasim, H. A., Al Besso, M., Glissmann, B., & **Titolo, A.** (2022). Investigating jubaniyah. A late chalcolithic site on the upper tigris river, iraqi kurdistan. Preliminary report. *MESOPOTAMIA. Rivista Di Archeologia, Epigrafia e Storia Orientale Antica*. <http://hdl.handle.net/10447/554804>

**Titolo, A.** (2021). Use of Time-Series NDWI to Monitor Emerging Archaeological Sites: Case Studies from Iraqi Artificial Reservoirs. *Remote Sensing*, 13(4), 786–786. <https://doi.org/10.3390/rs13040786>

**Titolo, A.** (2020). Assyrian imperial frontiers during the first millennium BC: The case of the Iraqi Middle Euphrates. In K. Gavagnin & R. Palermo (Eds.), *“Imperial Connections. Interactions and Expansion from Assyria to the Roman Period. Volume 2. Proceedings of the 5th “Broadening Horizons” Conference (Udine 5-8 June 2017)”* (pp. 203–215). EUT Edizioni Università di Trieste. <http://hdl.handle.net/10077/31106>

## Book Chapters

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Caselli, A., & **Titolo, A.** (2020). Tools and objects from Tell Zurghul excavations (2015-2017). In D. Nadali & A. Polcaro (Eds.), *The Italian archaeological excavations at Tell Zurghul, Ancient Nigin, Iraq. Final report of the season 2015-2017* (pp. 183–218). Sapienza Università di Roma. [https://www.andreatitolo.com/publication/2020-caselli-titolo-quadvo/Caselli\\_Titolo\\_QuVO\\_XVI\\_2020.pdf](https://www.andreatitolo.com/publication/2020-caselli-titolo-quadvo/Caselli_Titolo_QuVO_XVI_2020.pdf)

## InPress

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Sconzo, P., Simi, F., & **Titolo, A.** (2023). Drowned landscapes: The rediscovered archaeological heritage of the mosul dam reservoir. *Bulletin of the American Schools of Oriental Research*, In Press.

Pinnock, F., Haider, M., Badawi, A., **Titolo, A.**, D'Andrea, M., Capanna, M. C., Oselini, V., & Paolis, P. de. (2022). Preliminary report on the 2019 lebanese-italian survey in the regions of shawakeer and ras el-ain. *Baal. Bulletin d'archéologie Et d'architecture Libanaises*.

Sconzo, P., Simi, F., & **Titolo, A.** The submerged archaeological sites of the mosul dam reservoir. Evaluating emergence patterns with a new cost-efficient tool. In n.d. (Ed.), *Proceedings of the international conference on cultural heritage and new technologies, vienna*.

## InPreparation

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D'Andrea, M., Haider, M., Badawi, A., **Titolo, A.**, & De Paolis, P. The lebanese-italian archaeological project in the region of tyre: Preliminary report on the 2021 season and following research activities. In *Bulletin d'Archéologie et d'Architecture Libanaises*.

**Titolo, A.**, Hopper, K. A., & Hewett, Z. Remote sensing of burial mounds in forested zones using freely available multispectral medium resolution satellite imagery. In *Archaeological Prospection*.

## PhD Thesis (Unpublished)

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**Titolo, A.** (2020). *A cavallo del fiume: Distribuzione degli insediamenti e modelli di occupazione lungo il fiume eufrate in siria e iraq nell'età del ferro* [PhD thesis, Sapienza Università di Roma, Dipartimento di Scienze dell'Antichità]. <http://hdl.handle.net/11573/1554655> Unpublished Thesis.

## Conferences and Congresses

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Sconzo, P., Simi, F., & **Titolo, A.** (2021, October). *The submerged archaeological sites of the mosul dam reservoir. Evaluating emergence patterns with a new cost-efficient tool*. Paper presented at the conference on cultural heritage and new technologies”.

**Titolo, A.** (2021, April). *The damascus oasis: Past researches and new directions in the analysis of archaeological settlement patterns*. Paper presented at the workshop “fluid crescent. Water and life in the societies of the ancient near east.”

**Titolo, A.** (2021, April). *Water, landscapes and settlements along the river. Case studies from the syrian middle eufrates*. Paper presented at the 12th ICAANE (international congress on the archaeology of ancient near east). On-line conference due to covid-19.

**Titolo, A.** (2020, February). *Aspetti regionali della distribuzione insediativa lungo l'eufrate nell'età del ferro (x-vii secolo a.c.)*. Paper presented at SSDA 2020 (seminario della scuola di dottorato di archeologia di sapienza).

**Titolo, A.** (2020, January). *Monitoring emerging archaeological sites using multitemporal NDWI: Case studies from iraq*. Paper presented at the BANE conference.

**Titolo, A.** (2019, June). *Archaeological landscape of the lower syrian euphrates valley: An integrated approach towards the reconstruction of the settlement patterns during the iron age*. Paper presented at the broadening horizons 6 conference.

**Titolo, A.** (2019, January). *L'età del ferro nell'area dell'eufrate siriano: Siti e ricostruzione del paesaggio archeologico*. Paper presented at SSDA 2019 (seminario della scuola di dottorato di archeologia di sapienza).

**Titolo, A.** (2018, June). *Assyrian imperial frontiers of the first millennium BC, the case of the iraqi middle euphrates*. Paper presented at the broadening horizons 5 conference.

**Titolo, A.** (2018, April). *Settlement patterns, models of occupation, and assyrian presence in the west. Case study from the middle euphrates region*. Poster presented at the 11th ICAANE (international congress on the archaeology of ancient near east).

**Titolo, A.** (2018, March). *On the edge of the empire: Riverine landscape and settlement patterns in the haditha dam region during the iron age*. Paper presented at the BANE conference.

**Titolo, A.** (2018, January). *Pattern insediamentali nell'età del ferro: Il caso studio del medio eufrate iracheno*. Paper presented at SSDA 2018 (seminario della scuola di dottorato di archeologia di sapienza).

## Organized Conferences

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### SSDA 2020 (Seminario della Scuola di Dottorato di Archeologia di Sapienza)

SAPIENZA UNIVERSITY OF ROME

Rome, IT

02/2020

- Organized together with S. Bossi, B. Brancazi, G. Briatico, A.Caselli, A.L. Corsi, F. Lobera Corsetti, E. Lucci, F. Nicotera, G. Previti, R. Rotunno, L. Volpi

### SSDA 2019 (Seminario della Scuola di Dottorato di Archeologia di Sapienza)

SAPIENZA UNIVERSITY OF ROME

Rome, IT

01/2019

- Organized together with B. Brancazi, A. Caselli, A.L. Corsi, E. Lucci, S. Marino, R. Rotunno, L. Volpi

### SSDA 2018 (Seminario della Scuola di Dottorato di Archeologia di Sapienza)

SAPIENZA UNIVERSITY OF ROME

Rome, IT

01/2018

- B. Brancazi, E. Casadei, A. Caselli, E. Lucci, S. Marino, F. Porta

## Awarded Scholarships

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### Mobility of PhD Students

SAPIENZA UNIVERSITY OF ROME

2019

Project Members: A. Titolo, L. Volpi

- Project Name: MATTER

### Mobility of PhD Students

SAPIENZA UNIVERSITY OF ROME

2019

Project Members: A.Caselli, A. Jabbour, I.

Sayegh, A. Titolo

- Project Name: Tua-ViOr

## Teaching Experience

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### Students Lab Teaching

DEPARTMENT OF ANTIQUITIES

Sapienza University of Rome

02/2022 - 06/2022

- Lab design; weekly lectures on Landscape Archaeology and GIS, with hands-on interactive teaching of QGIS; office hours

## Other Working Experiences

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### Data Entry

ITALIAN ARCHAEOLOGICAL EXPEDITION AT NIGIN

Dhi-Qar, IR

2015-2020

- Data entry of the archaeological documentation of the Italian Archaeological Expedition to Nigin (Iraq) directed by Prof. D. Nadali (Università di Roma Sapienza) and by Prof. A. Polcaro (Università di Perugia)

### Students Lab Supervisor

ITALIAN ARCHAEOLOGICAL EXPEDITION AT EBLA

Rome, IT

2017-2020

- Supervisor of a student lab for the Digitalization of the topographical documentation of the Italian Archaeological Expedition in Syria (Tell Mardikh-Ebla), directed by Prof. Paolo Matthiae

### Data Entry

LAGODEKHI ARCHAEOLOGICAL SURVEY PROJECT

Lagodekhi, GE

2018

- Data entry of the archaeological documentation of the archaeological survey in the province of Lagodekhi (Georgia), directed by Dr Kristen Hopper (Durham University) and Prof. Elena Rova (Ca' Foscari University of Venice)

## Data Entry

Cottanello, IT

ARCHAEOLOGICAL MISSION TO COTTANELLO

2013

- Data entry of the archaeological documentation of the excavation at the “Villa di Cottanello/Collesecco (RI)” directed by Prof. P. Pensabene (Sapienza University of Rome)

## Online Certified Educational Experiences

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### Python Foundation for Spatial Analysis

TEACHER: UJAVAL GHANDI, SPATIAL THOUGHTS

07/2022

### End-to-End Google Earth Engine

TEACHER: UJAVAL GHANDI, SPATIAL THOUGHTS

03/2022

### Introduction to Google Earth Engine

TEACHER: DR. ALEMAYEHU MIDEKISA, GEOSPATIAL DATA SCIENTIST, UNITED STATE GEOLOGICAL SURVEY (USGS) - EROS

04/2020

### Learning the FOSS4g Stack: QGIS 3.0 Desktop

TEACHER: ARTHUR J. LEMBO JR., PROFESSOR, UNIVERSITY OF SALISBURY, DEPARTMENT OF GEOGRAPHY AND GEOSCIENCE

04/2020

### Learning the FOSS4g Stack: Geoserver

TEACHER: ARTHUR J. LEMBO JR., PROFESSOR, UNIVERSITY OF SALISBURY, DEPARTMENT OF GEOGRAPHY AND GEOSCIENCE

03/2020

### Learning the FOSS4g Stack: Spatial SQL with Postgres/PostGIS

TEACHER: ARTHUR J. LEMBO JR., PROFESSOR, UNIVERSITY OF SALISBURY, DEPARTMENT OF GEOGRAPHY AND GEOSCIENCE

03/2020

### Complete Google Earth Engine for Remote Sensing and GIS

TEACHER: MINERVA SINGH, PHD, UNIVERSITY OF CAMBRIDGE

03/2020

## Language Proficiency

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### Italian

MOTHER TONGUE

### English

IELTS CERTIFICATE (22/03/2018)

- Reading: 8.5
- Writing: 7.0
- Speaking: 7.0
- Listening: 8.5
- Overall Band Score: 8.5
- CEFR Level: C1

### French

READING: BASIC

### Arabic

SPEAKING: BASIC

## Computer and Technical Skills

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### GIS Softwares

QGIS, ARCGIS PRO, ARCMAP, ERDAS IMAGINE, GLOBAL MAPPER

- Very good knowledge OF QGIS 2.X/ 3.X
- Basic knowledge of ArcGIS Pro, Arcmap, Erdas Imagine and Global Mapper

### Programming

R, RSTUDIO, JAVASCRIPT, GOOGLE EARTH ENGINE, SQL

- Good knowledge of R and Rstudio for quantitative and statistical analysis and GIS software integration
- Good knowledge of Google Earth Engine and JavaScript aimed at remote sensing analyses and satellite images processing
- Knowledge of SQL aimed at spatial analyses and spatial database management

### Version Control

KNOWLEDGE OF GIT

## Office

VERY GOOD KNOWLEDGE OF WORD PROCESSORS, SPREADSHEETS, AND DATABASES

## Graphics Software

GOOD KNOWLEDGE OF PHOTO EDITING AND VECTOR GRAPHICS SOFTWARES

## References

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### **Kristen Hopper, Ph.D.**

ASSISTANT PROFESSOR (RESEARCH) AT THE UNIVERSITY OF DURHAM, DEPARTMENT OF ARCHAEOLOGY

*[k.a.hopper@durham.ac.uk](mailto:k.a.hopper@durham.ac.uk)*

### **Davide Nadali, Ph.D.**

ASSOCIATE PROFESSOR IN NEAR EASTERN ARCHAEOLOGY AT THE SAPIENZA UNIVERSITY OF ROME, DEPARTMENT OF ANCIENT WORLD STUDIES

*[davide.nadali@uniroma1.it](mailto:davide.nadali@uniroma1.it)*

### **Marta D'Andrea, Ph.D.**

ASSISTANT PROFESSOR IN ARCHAEOLOGY AND ART HISTORY OF THE ANCIENT NEAR EAST AT THE SAPIENZA UNIVERSITY OF ROME, DEPARTMENT OF ANCIENT WORLD STUDIES

*[marta.dandrea@uniroma1.it](mailto:marta.dandrea@uniroma1.it)*

### **Nicolò Marchetti, Ph.D.**

FULL PROFESSOR OF NEAR EASTERN ARCHAEOLOGY AT ALMA MATER STUDIORUM – UNIVERSITY OF BOLOGNA, DEPARTMENT OF HISTORY AND CULTURES

*[nicolo.marchetti@unibo.it](mailto:nicolo.marchetti@unibo.it)*

Signature

