



## ROSA LASAPONARA CV

<https://scholar.google.it/citations?user=h-s87zUAAAAJ&hl=it>



**Research Interest** more than 25 years of experience in the field Earth Observation from satellite/airborne/ground based on passive (optical, multi-hyperspectral data) and active (radar, LIDAR) sensors. Her main research interests are focused on modelling, data processing, integration, and interpretation of big Earth Observation for natural/anthropogenic risk estimation, monitoring and mitigation, with particular reference to risk management and post events damage estimation (fire monitoring and post fire monitoring), Landscape analysis and environmental degradation (urban sprawl, desertification, pollution), paleo-environmental investigations and archaeological studies.

**Publications and editorial activity** She authored or co-authored of more than 350 peer-reviewed papers (210 in JRC journals, book etc.), editor of NHESS, academic Editor of RS and guest editor for several international journals Remote Sensing (2020, 2019, 2017, 2013), IJRS, JAG, Ecological Modeling, Journal of Archaeological science, Archaeological Prospection, Journal of Cultural Heritage, Sensor, Sustainability.

**Projects** She has been and currently is the scientific coordinator of several research projects at national and international level (more than 45 projects, funded by the EC (European Community, as H2020), ESA (European Space Agency), ASI (Italian Space Agency), MAECI (Ministero degli affari esteri e cooperazione Internazionale, progetti di grande rilevanza), CNR, DPC (department of protezione civile). She currently is the LPI of SER\_FORFIRE ERA4CS (Integrated services and approaches for Assessing effects of climate change and extreme events for fire and post fire risk prevention ([http://www.jpi-climate.eu/nl/25223459-SERV\\_FORFIRE.html](http://www.jpi-climate.eu/nl/25223459-SERV_FORFIRE.html)), PI for IMAA of ATHENA twin project H2020 and for ArTeK and Space\_To\_Tree funded by ESA in cooperation with ASI.

**International scientific missions:** more than 63 international archaeological scientific missions, (30 in Peru, 5 in Bolivia, 5 in Argentina, 8 in China, 3 in Tunisia, 12 in Italy).

**International conferences** Chair of International Conferences co-organized with ESA, NASA, ASI, DLR, NARSS, CONAE, INPE, (as, for example, [HTTPS://CNRFIRE2019.EU/](https://CNRFIRE2019.EU/))

**Teaching** adjunct professor of Microwave (since 2010 to present) at the university of Basilicata, where she was member (2005-2012) of the scientific committee of the PhD Environmental Engineering and currently is member of the committee of the PhD "Cities Landscapes: Architect, Archaeology, Cultural Heritage, History".

### **International positions including, among the others:**

- Research Director of the Sino-Italian International Centre of Excellence –IcoE- on EO for natural and Cultural Heritage (<http://www.unesco-hist.org/index.php?r=en/article/info&id=1522>)
- Member (2015 -2018, and 2019-2021) of governing board (i.e. CdA-Consiglio di Amministrazione) of the Chinese Academy of Science – Hist cat 2 Unesco Center on Geoparks).
- Co-chair of the Digital Belt and Road (<http://www.unesco-hist.org/uploads/2017/26.pdf>) international working group ([http://www.bulletin.cas.cn/publish\\_article/2017/Z1/2017Z119.htm](http://www.bulletin.cas.cn/publish_article/2017/Z1/2017Z119.htm)),
- Member of the international working group GWIS/GOFC (since 2019)
- Visiting professor at INPE Brazilian Space Agency (2019)
- Visiting professor at the Chinese Academy of Science CAS–Beijing, (2015-2016) PIF Grants
- Visiting professor at CONAE Argentine Space Agency (2014-2015)
- Visiting professor at the university of Comahue Bariloche Argentine (2011)
- Science officer for EGU Natural Hazard Division (on fire monitoring (2007 -2014)
- Science Officer for EGU (2017-2014) for OSP Outstanding Poster Award,



- Member of the Plinius Medal for EGU- Natural Hazard –Division (2014-2009).
- Member of Earsel Bureau (2014-2009)
- Earsel -General Secretary 2013-2012
- Earsel –Treasurer, 2012-2010 (management of 300K euro per year)
- Editor of the Earsel News Letter, 2012- 2009
- Project Reviewer for international institutions (EU -H2020), ANR, Belspo, etc.

**Invited speaker/chairman/convenor and/or member of scientific program committee** (more than 50 contributions) (EGU, EARSeL, SPIE, IGARSS, Digital Earth, DBAR, ICCSA, EU- DG GROW, UNESCO).

**Invited lecturer** (more than 50 contributions) in national and international research Centre, and Universities (among the others: ESA, ASI, DLR, CONAE, INPE, UNESCO, NARSS, Chinese Academy of Science, EGU, Università di Roma – Sapienza, Cyprus University of Technology, Nicosia, University Of Lausanne, University of Ghent (belgium), Geoscience- Canberra (Australia), IALE (International Association Landscape Ecology) Bariloche (Argentina), Università Della Punta S Loius (Argentina), University of Bern (Swizland), University of Lousanne (Swizland), Potsdam, Germany- Institute For Climate Impact Research DAMES, Spanish National Research Council- Universitat Pompeu Fabra Barcellona (Spain), Technical University- of Istanbul (Turkey), Institute Of Prehistory, Adam Mickiewicz University- Poznan – Poland, University of Zonguldak Turchia, Public Research Centre Henri Tudor University Lussemburgo, etc.

**Supervisor of** Supervisor of PhD and MsC Thesys students (15 PhD and 5 MsC). External evaluation committee of PhD (in UK, Belgium, Greece, Spain, Argentina, Norway, China, Italy)

**Visiting scientists hosted** (more than 20 scientists hosted from 2005 to 2020 with official grants)

#### **Awards**

1. Leadership Awards from CAS December 2019 for the distinguished research achievements
2. Leadership Awards from CAS–RADI Dec. 2017 for the distinguished research achievements
3. Best Presentation Digital Earth conference 2016 Beijing (8 July 2016)
4. Leadership award for editorial achievement by Remote Sensing journal January 2015
5. Leadership Awards from ICCSA (July 2016), from EARSEL June 2014
6. Awards BEST Innovation for 2014 year from Focus -May 2014- (<http://www.cnrweb.tv/firesat-linnovazione-giusta-per-il-nostro-pianeta/>)

#### **Divuligation actives, as, for example:**

- A) **Scientific Exhibitions** in Italy, Peru, Polonia, (2013-2021), “Sensing the Past” August-September 2013 Galleria agostiniana Rome, in the framework of the European Space Expo ([https://www.imaa.cnr.it/images/ima/news\\_eventi/2013/08\\_agosto/mostra.pdf](https://www.imaa.cnr.it/images/ima/news_eventi/2013/08_agosto/mostra.pdf)). Esposizione itinerante “Mirada de los Dioses. Observación espacial del patrimonio andino”. Museo Archeologico nazionale Lima Peru [https://iiclima.esteri.it/iic\\_lima/it/gli\\_eventi/calendario/2017/05/esposizione-itinerante-mirada-de.html](https://iiclima.esteri.it/iic_lima/it/gli_eventi/calendario/2017/05/esposizione-itinerante-mirada-de.html)
- B) **Media interviews** (BCC, Wired, National geographic, National and international press as repubblica, la stampa, il Pais, la Prensa, le Figaro, Leonardo TG, etc. ( <https://www.bbc.com/future/article/20160408-the-ancient-peruvian-mystery-solved-from-space>), Repubblica <https://duckduckgo.com/?q=rosa+lasaponara&t=chromentp&iax=videos&ia=videos&iat=m6rXfAQEZtY>
- C) **Divuligation Conferences** as, for example, : " La scienza del cnr per il sistema nazionale di protezione civile:l'esperienza 2008-2019 del monitoraggio operativo degli incendi in Basilicata ( <http://www.cnrweb.tv/la-scienza-del-cnr-per-il-sistema-nazionale-di-protezione-civile/>)
- “A Space View Of Silk Road” Festival Della Scienza Genova 28 Ottobre, 2016 (<http://festival2016.festivalscienza.it/site/home/programma-2016/giorno-per-giorno/28-ottobre/tracce-del-tempo-dalluniverso.html>).
- "Earth Big Data integration for cultural heritage" Eurisy Space4Culture <https://www.youtube.com/watch?v=3O4q78f0A6g>
- "Remote Sensing for Cultural Heritage: from Documentation to Risk Estimation and Preservation" in Copernicus for Cultural Heritage Workshop (<https://workshop.copernicus.eu/cultural-heritage>) [https://workshop.copernicus.eu/sites/default/files/content/attachments/ajax/lasaponara\\_-\\_earsel.pdf](https://workshop.copernicus.eu/sites/default/files/content/attachments/ajax/lasaponara_-_earsel.pdf)
- D) **Video productions** as for example: SPACEWATCHING OUR PAST <https://www.effenove.it/project/spacewatching-cnr-lidar-remote-sensing/?fbclid=IwAR2P1hBOoRd3ztI8IB6Z9idWa3eBP5S5uX8JLg47cr8CzrS2pURECF404kM>