

## **Giulio Magli - Brief CV**

Giulio Magli (Rome 1964) is a Physicist (Ph.D. University of Milan 1992), currently Chair Professor at the Politecnico of Milan and Dean of the Department of Mathematics. Academic career: Research Associate (Como Faculty 1993-2000) / Associate Professor (Faculty of Civil, Environmental and Landscape Engineering 2000-2005) / Chair (Faculty of Civil Architecture 2005-present). Starting from the academic year 2007-2008 he has been teaching the unique official course on Archaeoastronomy ever established in an Italian University, devoted to the II level M.A. degree students in Civil Architecture.

He has been visiting scientist in several scientific institutions; among them the Institute of Theoretical Physics of the Polish Academy of Sciences of Warsaw, Poland; the Theoretical Astrophysics Group of the Tata Institute of Fundamental Research of Bombay, India and the Institute of Theoretical Physics of the Bern University, Swiss. Invited speaker at several national and international conferences through the years, he has been Co-chair (together with Mauro Francaviglia) of the international conference series “Dynamics and Thermodynamics of Blackholes and Naked Singularities”.

Research activity first developed in Relativistic Astrophysics, with special attention to the interaction of the gravitational field with matter fields and the properties of solutions of the Einstein field equations. Starting from 1999 scientific activity gradually moved to Archaeoastronomy, with special interest for the relationship between architecture, landscape and mathematical - astronomical lore of ancient cultures, especially among the Ancient Egyptians but also among the Incas and in the Mediterranean. In this field he authored the books “Mysteries and Discoveries of Archaeoastronomy” (Springer-Verlag 2009), “Architecture, astronomy and sacred landscape in ancient Egypt” (Cambridge University Press 2013), “Archaeoastronomy - Introduction to the science of stars and stones” (Springer Verlag 2016).

He has been one of the authors of the UNESCO-IAU document on astronomical heritage and has been conducting archaeological survey missions on pre-nuragic Sardinia and in Central Italy, as well as spending several periods in Egypt investigating the ancient topography of the pyramid's fields and other ancient landscapes. He is member of the scientific committee of the Center for Cultural Heritage of the Politecnico of Milan and co-responsible, together with the Director of the “Ente parco Valle dei Templi”, of the scientific cooperation project between the Politecnico of Milan and the Archaeological Park of the UNESCO site “Valley of the Temples” in Agrigento, Sicily.

In recent years, he has been involved in research and development of e-learning/open learning courses and techniques in collaboration with the METID centre within the project *Polimi Open Knowledge*, and with funding by the ECO European project. In particular, together with Domenico Brunetto, he has developed the first Italian Pre-Calculus MOOC course and the first Archaeoastronomy MOOC course ever produced (both are freely available on [www.pok.polimi.it](http://www.pok.polimi.it)). The Archaeoastronomy MOOC is also available on the international platform COURSERA.

Along with scientific activity, he developed a wide activity in the field of scientific communication, and since 2013 he has been appointed director of the FDS laboratory for Formation and Scientific Communication of the Department of Mathematics of the Politecnico of Milan. His researches have been reported several times on National and international TV broadcasts; in particular, CNN’ “The Revealer” devoted two documentaries to his scientific research which have been broadcast to a worldwide audience; the first is on the work – together with Robert Hannah of Otago University - on the role of the sun in the Pantheon's project, [http://www.dailymotion.com/video/xicdqd\\_a-look-inside-the-pantheon\\_news](http://www.dailymotion.com/video/xicdqd_a-look-inside-the-pantheon_news) the other is on Magli's 10-years researches at Giza <http://backstory.blogs.cnn.com/2011/09/01/the-revealer-revealed/>.

Recent press reports include:

*Machu Picchu Is Mini Re-creation of a Mythic Landscape?* (National

Geographic) [http://news.nationalgeographic.com/news/2009/06/090615-machu-picchu\\_2.html](http://news.nationalgeographic.com/news/2009/06/090615-machu-picchu_2.html)

*Pyramid of Mystery Pharaoh Possibly Located* (Discovery News)

<http://news.discovery.com/archaeology/missing-pyramid-mystery-pharaoh-found.html>

*Rome's Pantheon may have been built as a massive sundial* (Telegraph)

<http://www.telegraph.co.uk/news/worldnews/europe/italy/8673508/Romes-Pantheon-may-have-been-built-as-a-massive-sundial-researchers-reveal.html>

*World's oldest temple built to worship the dog star* (New Scientist)

<http://www.newscientist.com/article/mg21929303.400-worlds-oldest-temple-built-to-worship-the-dog-star.html>

*Ancient Greek Temple Aligned to Full Moon* (Discovery News)

<http://news.discovery.com/history/archaeology/ancient-greek-temple-aligned-to-full-moon-151130.htm>

*Tech used to prove Angkor's link to sun*

<http://www.phnompenhpost.com/national/tech-used-prove-angkors-link-sun>

Recent participation to conferences include:

- *Appia Regina Viarum: astronomy in the project of the queen of Roman Roads*

Invited talk at “Seac 2013-Astronomy and Culture”, Athens, Greece, September 2013.

- *The classical world* Opening talk at “The role of Archaeoastronomy in the Maya World”, Cozumel, Mexico, August 2014

- *Astronomy and landscape at Agrakas, Sicily* Invited talk at “Seac 2015-Astronomy and Culture”, Rome, October 2015