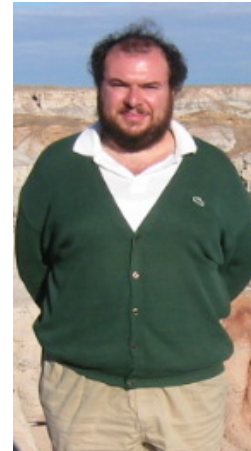


## Giovanni Lapenta – Project Spokesperson

### Studies and awards

- BS and MS in Nuclear Engineering (Laurea), magna cum laude, Polytechnic University of Turin, Italy. February 1990.
- Ph.d. in Plasma Physics, magna cum laude, Polytechnic University of Turin, Italy. October 1993.
- RD100 Prize in 2005 for his work on high performance computing.
- Thesis Prize from ASP (Association for the Scientific and Technological Development of Piemonte).
- Prize for best student presentation at the 1993 American Nuclear Society Annual Meeting.
- Listed in the Who's Who.



### Employment history

- Professor, University of Leuven (KU Leuven), Belgium, since 2007.
- Scientist (Staff Member), previously Director's Postdoctoral Fellow, Los Alamos National Laboratory, 1994-2008. In part held in concurrence with professorship in Italy.
- Research and Associate Professor of Computational and Plasma Physics, Polytechnic University of Turin, Italy, 1996- 2001.
- Graduate Research Assistant, Los Alamos National Laboratory, 1992-1994.
- Visiting Scientist, Massachusetts Institute of Technology (Physics Department, Research Laboratory of Electronics), Cambridge, Massachusetts, 1992.
- Research Assistant, CSELT, Telecom Italia (Italian telephone company; Research Centre and Laboratory for Telecommunications), Turin, Italy, 1990-1991.

### Expertise Relevant for the Project

- Expertise in space science: coordinator of international research efforts funded by the European Commission (Soteria, eHeroes, Swiff in FP7) with the goal of gathering and organizing the most modern data sources relative to space and coupling them with computer simulations
  - Expertise in Machine Learning: Coordinator of the European H2020 project AIDA ([www.aida-space.eu](http://www.aida-space.eu), Artificial Intelligence Data Analysis). The main contribution of Lapenta to the present project will be the development and deployment of machine learning and data assimilation methods for space application.
  - Expertise on massively parallel computer codes for space simulation that will be used in the present project to provide data for analysis and will be assimilating data to make more accurate predictions

### Top Five Achievements of the last 10 years

1. Coordinator of the first European space weather project funded by the EC, Soteria (FP-7).
2. Subsequently coordinator of 3 more projects on space science and artificial intelligence under EC-FP7 and then H2020.
3. Publication record, including top journals such as Nature Physics and Physical Review Letters, reaching a ISI web of science h-index of 35 and a google scholar h-index of 43.
4. Citation record of 6678 citations on google scholar with the top cited paper having 246 citations.
5. Co-founder of the Intel Exascience Lab in Leuven, funded by Intel and by IWT.

**Link to Full Publication List:** <http://lirias.kuleuven.be/cv?Username=U0052182>