



VALERIA PETTORINO

PHYSICIST, PHD, HDR

CONTACT INFORMATION

valeria.pettorino@me.com
www.valeriapettorino.com

PROFILE

I am an astrophysicist with 15+ years experience. Project manager within large international collaborations, typically in roles at the interface between theory and data analysis. President of the Programme National de Cosmologie et Galaxies.

SKILLS & ABILITIES

- Science and data science
- Project management
- Event organisation
- Communication
- Speaker
- Enjoys working in a Team

PROFESSIONAL HISTORY

Staff Scientist

CEA Paris Saclay (2016 - Present)

Management responsibilities:

- President of the Programme National de Cosmologie et galaxies (2019 - present)
- Co-Lead of Euclid Satellite Inter-Science Taskforce

Communication and mentoring:

- Direction board for Euclid France Communication
- Advisor for Euclid - ENSAAMA science and art partnership
- Co-lead of Mentorship Programme for Women in Physics

Events:

- Organiser of GOLD 2020, 10-week scientific programme
- Board member of EuroPython Society (2018-2019)
- Co-organiser of EuroPython conferences (2017-2019)
- Co-organiser of EuroSciPy conference (2020)

Prizes:

- Euclid Star Prize 2019 for category TEAM
- Gruber Prize 2018 in Cosmology as Planck scientist

Acquired experience in Agile Management, Deep Learning

Science to Data Science Fellow

Virtual training (2016)

- Machine learning for healthcare, IOT project, London start-up.

Group Leader

University of Heidelberg (2014 - 2016)

Responsibilities:

- Lead of Planck satellite data analysis on dark energy
- Grant manager, ~ 1M euro won in 1.5 years
- Representative for European CANTATA COST action
- Member of Research Council for investments plan

Acquired experience in management

Postdoctoral Researcher

University of Geneva (2012 - 2014)

SISSA Trieste (2010 - 2012)

Columbia University, New York (2009-2010)

University of Heidelberg (2007-2009)

University of Torino (2005-2007)

Events:

- Organizer and funder of schools and conferences

Communication:

- Euclid Deputy for Public Outreach (2012-2014)
- Popular talk at the Italian Academy in New York

Grants I won:

- Marie Curie, Alexander von Humboldt Fellowships, SISSA Young scientists, Research Associate at the Italian Academy in New York

Acquired experience in data analysis and communication to different audiences

LANGUAGES

Italian ●●●●●
Native

English ●●●●●
Full Professional

French ●●●●●
Full Professional

German ●●●●●
Intermediate

AWARDS

- Euclid STAR Prize 2019, category TEAM
- 2018 Gruber Prize in Cosmology with Planck Collaboration
- Giuseppe and Vanna Cocconi Prize to WMAP and Planck Collaborations
- Best Reviewer for PLB 2010 and 2014
- 3rd place English debating competition in Ontario, Canada (1995)
- Langhe Prize 1993

MEDIA

Interview for Quanta Magazine:
<https://www.quantamagazine.org/cosmologist-valeria-pettorino-wanders-in-dantes-dark-wood-20181113/>

Press Releases and videos available at:
<https://www.valeripettorino.com/communication>

INVITED TALKS



EDUCATIONAL HISTORY

Habilitation à Diriger des Recherches (HDR)

Université Paris Sud, 2019

PhD in fundamental and applied physics

Federico II Univ. Naples 2012 - 2015

Graduate and undergraduate studies

Federico II Univ. Naples 1997 - 2012
Liceo Scientifico Caro Naples 1992 - 1997

- ERASMUS exchange in Grenoble
- Intercultura exchange in Canada
- Langhe Prize for highest marks in the school
- 60/60 with mention of committee

CERTIFIED TRAINING

- Intermediate Machine Learning on Kaggle (2020)
- Convolutional Neural Networks in TensorFlow (2020)
- Introduction to TensorFlow for AI, ML, and DL (2020)
- Managing an Agile Team (2020)
- Data Visualization with Python by IBM (2019)
- Machine Learning by Andrew NG on Coursera (2019)
- Using Databases with Python (2015)
- A Crash Course in Data Science (2015)
- Communication in the 21st Century Workplace (2015)
- Python Data Structures (2015)
- The Art of Negotiation (2015)

INTERESTS AND HOBBIES

I am curious about learning new skills and topics. Having moved several times I learned to embrace what each city had to offer. Over the years I have done:

- acting classes
- creative writing
- editing and evaluation in writing competitions
- co-organisation of performances in bookshops (2004 - 2007)
- collaborative-writing of novels
- debating
- tango, swing, valse