

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

QUALIFICATIONS

2019 Habilitation à Diriger des recherches 2017 - 2026 Abilitazione Scientifica Nazionale 02/A2 - FISICA TEORICA DELLE INTERAZIONI FONDAMENTALI (Prima e Seconda Fascia) 02/C1 - ASTRONOMIA, ASTROFISICA, FISICA DELLA TERRA E DEI PIANETI (Prima e Seconda Fascia)

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
- Euclid Builder status conferred for key, long-term contributions

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)

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 Fellowhips, 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 • • • • •

EnglishFull Professional

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FrenchFull Professional

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German

Intermediate

AWARDS

- 2019 Euclid STAR Prize, category TEAM
- 2019 Giuseppe and Vanna Cocconi Prize to WMAP and Planck Collaborations
- 2018 Gruber Prize in Cosmology to Planck Collaboration
- 2018 Marcel Grossman Institutional Award to Planck collaboration
- 2018 Group Award by Royal Society to Planck Collaboration
- 2010, 2014, Best Reviewer for PLB
- 1995, 3rd place English debating competition in Ontario, Canada
- 1993 Langhe Prize

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.valeriapettorino.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