

Daniele Molaro

CURRICULUM VITAE

Contact

Dr. Daniele Molaro

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Date/Place of birth

1977

Carriera, Italy

Nationality

Italian

EXPERIENCE

Education Expert

OCT 2023 - PRESENT

Fondazione Agnelli, Turin

STEM education teacher trainer and activity developer.

- Teacher trainer (middle school)
- Content creator (pedagogical guide, lesson plans, educational videos)
- STEM education national project developer (primary school)

Education Kit Developer

OCT 2020 - OCT 2023

CERN, Genève (Switzerland)

Developer of an education kit for Italian middle schools with hands-on activities on an inquiry-based learning framework and of the related teacher training programme. Target kit: 11-13; target training: science middle school teachers.

- Development of content for the kit
- Development of content for teacher training
- Development of structure for teacher training

STEM project/event creator

NOV 2016 - PRESENT

B:kind | Science & Co, Pisa (Italy)

- *Molecole Science Camp* - creator, coordinator, tutor in charge
1 week / 2 weeks STEM camp. 20-24 kids + 8-12 teenagers as junior explainers. Funded by Italian Dipartimento delle Pari Opportunità to fight gender inequalities in science careers. Target: 8-12.
- *Science Marathon* - creator, developer, performer, moderator
3 days non-stop science festival. Over 50 activities: conferences, exhibitions, workshops, shows, games, concerts. Target: 4-99.
- *Meet the Scientist* - creator, planner, explainer
English-language seminars and workshops for high school students.

Science show author/performer


OCT 2014 - PRESENT


Production of entertaining science shows for kids. "Dr. Burger" character development, script writing, exhibit design and construction. 100+ performances in festivals, theatres, schools, libraries. Target: 5-7; 8-10; 12-13.

LANGUAGES


Italian	mother tongue
English	C1
French	A1

PROFESSIONAL EXPERIENCE

Writing/editing projects 

Hands-on exhibit design 

Gamification 

Video script writing 

PERSONAL SKILLS

- Teamwork
- Desire/ability to learn
- Curiosity

STEM trainer

NOV 2016 - PRESENT

- *Scienze in gioco* - creator, developer, trainer
Board games and science: primary school teacher training course. In collaboration with publishing house *DeAgostini Scuola*.
- *GrWiToN School* - creator, developer, trainer
8-hours English-language outreach training course at EGO-Virgo for 13 PhD students in the field of gravitational waves.
- *L'ABC degli strumenti digitali* - trainer
Teacher training course about digital tools in education.

STEM workshop creator

SEP 2011 - PRESENT

Creation and development of 30+ STEM workshops for schools, universities (e.g. PLS @ Università degli Studi di Torino, science education project funded by Italian MIUR), science centres, libraries, theatres and science festivals.

Scientific explainer

OCT 2006 - PRESENT

Explainer in 50+ different STEM exhibitions/labs/workshops during Italian and European festivals.

STEM project coordinator/explainer

SEP 2019 - PRESENT

Codemotion, Rome (Italy)

- *Innovation Kids Days @ Capgemini* - 11 explainers, 6 ICT activities, 40 kids. Target: 5-13.
- *Tech Area Kids & Young @ BMW* - ICT activity for kids. Target: 10-13.
- *Scuola Digitale TIM* - contact management with middle schools; 9 coding workshops. Target: 11-13.

National survey manager

SEP 2018 - FEB 2019

EUN Partnership, Brussels (Belgium)

EU STEM attractiveness study Italian survey manager.

INVALSI pre-tests administrator

SEP 2018 - PRESENT

EduVal Project Srls, Busto Arsizio (Italy)

Schools' System Evaluation test administrator for Tuscany.

Teacher

MAR 2017 - APR 2017

Istituto di Istruzione Superiore Statale A. Pesenti, Cascina (Italy)

Cambridge IGCSE training course English-speaker math teacher, 10th grade.

Tutor

SEP 2009 - JUL 2013

Università degli Studi di Torino, Department of Physics, Turin (Italy)

- *Esperimentazioni*: mechanics, waves, fluids, thermodynamics, statistics;
- *Laboratorio di Calcolo*: Wolfram Mathematica, C++ programming.

Blogger/podcaster

AUG 2015 - PRESENT

Scientificast (www.scientificast.it)

COMMUNICATION SKILLS

- Public interaction
- Kids interaction
- Public speaking

ICT SKILLS

Linux ●●●●

Windows ●●●●

Google Drive ●●●●

Open Office ●●●●

Photo editing ●●

Video editing ●●

ICT in education ●●●●

OTHER SCIENTIFIC INTERESTS

- History of science
- Science education
- Biology, Evolution
- Zoology, Ethoecology
- AI, Machine learning
- Game theory
- Complex systems

SELECTION OF SCIENCE FESTIVALS ATTENDED

- Festival della Scienza (Genoa)
- Maker Faire (Rome)
- BergamoScienza (Bergamo)
- European Researchers' Night (Frascati, Cascina, Carbonia)
- Asconosc(i)enza (Ascona)

EDUCATION

Bachelor Degree in Physics

DEC 2011

Università degli Studi di Torino, Turin (Italy)

Fields of interest: classical and quantum mechanics, fluids, complex systems, history of physics.

- Isola di Einstein (Polvese Island)
- Fosforo (Senigallia)
- Scienza in Fabbrica (Turin)
- Scienza ad Alcamo (Alcamo)
- OttobreScienza (Turin)
- Internet Festival (Pisa)
- La Città dei Bambini (Cascina)

Training courses

- **33rd Science Project Workshop in the Future Classroom Lab** SEP 2019
Scientix and STEM School Label, Brussels (Belgium)
STEM School key elements and criteria, basic public speaking training.
- **Comunicare la scienza: Istruzioni per l'uso** NOV 2017
Infini.to - Planetario e Museo della Scienza di Torino, Turin (Italy)
Exchange of experiences and best practice in science communication.
- **The Scientix Ambassadors Training Course** NOV 2016 - FEB 2017
Scientix - The community for science education in Europe
Professional development; training opportunities and educational resources; communication skills; copyright and intellectual property; presentations and public speaking; social media; working with projects.
- **European Academy for Scientific Explainers** OCT 2008
Festival della Scienza, Genoa (Italy)
Presentation skills; design and construction of exhibits and multimedia; science communication; creativity and group work; interaction with different kind of visitors: kids, adults, diseased people; empowerment.

Theatre

SEP 1999 - JUN 2006

Teatro delle Forme, Turin (Italy)

Acting courses and workshops. Focus on charlatan and clown.

MEMBERSHIPS

- AIF - Associazione per l'insegnamento della fisica
- Scientix - The community for science education in Europe
- B:kind | Science & Co - Scienza, tecnologia comunicazione. Con gentilezza
- Scientificast - blog e podcast di scienza

SELECTION OF SCIENCE MUSEUMS VISITED

- Natural History Museum (London, UK)
- Science Museum (London, UK)
- Deutsches Museum (Munich, Germany)
- MuSe (Trento, Italy)
- Museo della Scienza e della Tecnologia "Leonardo da Vinci" (Milan, Italy)
- CosmoCaixa (Barcelona, Spain)

SELECTION OF STEM ACTIVITIES DEVELOPED

Shows

- *Le Mirabolanti avventure del Dr. Burger* - light, mechanics, fluids (6-10)
- *Ti gonfio!* - science with balloons (9-13)
- *Elementare, Dr. Burger* - the 4 elements (6-10)

Labs

- *Gira la Luna* - the science of the moon (5-8)

Training workshops

- *Board games and science* - using the board game as a learning tool (for primary and middle school teachers)
- *The science mystery box challenge* - can you create a scientific exhibit with the content of the box? (for teachers)

