

## CURRICULUM VITÆ – PIETRO OLIVA

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### PERSONAL INFORMATION

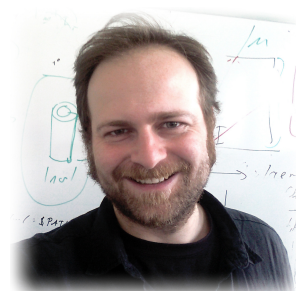
PIETRO OLIVA, PH.D.

BORN IN ROME 07/09/1977

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### EDUCATION AND TRAINING

**PH.D. IN CONDENSED MATTER, NANOSCIENCE AND COMPLEX SYSTEM (FIS/03), ROMA TRE UNIVERSITY.** THESIS TITLE: *All-Carbon devices for ionizing radiation detection.*

**M.Sc. IN PHYSICS, MAJOR ASTROPHYSICS AND SPACE PHYSICS (FIS/05), UNIVERSITY OF ROME “LA SAPIENZA”.**

THESIS TITLE: *Inclined Air Showers and Astronomy with Ultra High Energy Neutrinos.*

**SECONDARY SCHOOL CERTIFICATE (1992 - 1996) ISTITUTO TECNICO COMMERCIALE “VILFREDO PARETO”, ROMA.**

### WORK EXPERIENCE

**dall’08/2013** RESEARCH ASSOCIATE. DIDACTICS OF PHYSICS - LABORATORY MANAGER & ADJUNCT PROFESSOR AT UNIVERSITÀ DEGLI STUDI NICCOLÒ CUSANO -TELEMATICA DI ROMA- IN

- FISICA GENERALE I (FIS/01) 2020-TODAY;
- GENERAL PHYSICS II (FIS/01) 2016-TODAY;
- ELECTRICAL AND ELECTRONIC MEASUREMENTS (ING-INF/07) 2013-TODAY; AUTOMATION 2013-16 (DEACTIVATED);

**02/2013 → 10/2013** SOGIN: SOCIETÀ GESTIONE IMPIANTI NUCLEARI, LIV. A1, R&D NATIONAL REPOSITORY AND TECH. PARK.

**from 07/2012** TUTORING/EXAM COMMITTEE GENERAL PHYSICS, UNI. E-CAMPUS (PROF. BENNATI).

**10/2008 → 10/2010** WISSENSCHAFTLICHER MITARBEITER (RESEARCH ASSOCIATE) AT BERGISCHE UNIVERSITÄT WUPPERTAL. GROUP: PIERRE AUGER SOUTH OBSERVATORY.

**06/2008 → 09/2008** COLLABORATION CONTRACT/ SUMMERSTUDENT AT MAX PLANCK INSTITUTE FÜR NUCLEAR PHYSICS (MPIK), HEIDELBERG. GROUP: ICE CUBE OBSERVATORY.

**Freelance/Extracurricular** 10/2020: ORGANIZATION & SCIENTIFIC COMMITTEE EXHIBIT “[IMAGES ABOUT THE ORIGIN OF THE UNIVERSE BETWEEN SCIENCE, MYTH AND ART](#)” IN THE FRAMEWORK OF [ROME ART WEEK](#), SOCIETÀ DANTE ALIGHIERI, ROME.

06/2019: ORGANIZATION & SCIENTIFIC COMMITTEE EXHIBIT “[THE ORIGIN OF THE UNIVERSE BETWEEN SCIENCE AND MYTH](#)”, BIBLIOTECA ANGELICA ROME.

06/2011: GRAPHICS AND PHOTOGRAPHER INTERNATIONAL FORUM “PAROLA NEL DIALOGO CULTURALE ITALO-RUSSO” SAPIENZA, ROMA.

02/2012: GRAPHIC DESIGNER, PHOTOGRAPHER AND SCIENTIFIC COMMITTEE “LA SCUOLA IN VILLA” (II MUNICIPIO, COMUNE DI ROMA)

06/2004: CO-ORGANIZER EXHIBIT [TRANSITI ECLISSI ED OCCULTAZIONI TRA LA MINERVA E IL COLLEGIO ROMANO](#)

LANGUAGES ITALIAN (MOTHER TONGUE), ENGLISH (FLUENT), FRENCH (FLUENT)  
GERMAN (SCHOLASTIC), RUSSIAN (BEGINNER).

COMPETENCES **Technical skills** FIELDS OF INTEREST: HIGH ENERGY ASTROPHYSICS, HIGH/ULTRA HIGH ENERGY COSMIC RAYS, EXTENDED AIR SHOWERS, ČERENKOV AND FLUORESCENCE DETECTORS, ARRAY DETECTORS, NEUTRINO ASTRONOMY, RADIO DETECTION OF EAS, GRB AND SGR. DETECTION AND MEASUREMENT OF RADIOACTIVITY  $\alpha$ ,  $\beta$  AND  $\gamma$ . OPTOELECTRONICS, SOLID-STATE DETECTORS.

**Soft Skills** TEACHING SKILLS, PROBLEM SOLVING AND PRESSURE ENDURANCE. HIGH TENDENCY TO SOCIALIZE, ORGANIZE AND NATURAL ATTITUDE FOR TEAMWORK. EXHIBITS AND GRAPHICS CONSULTANT WITHIN THE BUDGET. BEST ASTROPARTICLE COURSE TUTOR 2010 AT BUW UNIVERSITY. GRAPHIC DESIGNER AND LOGISTICS “SAROS” EXHIBIT, GRAPHIC DESIGNER AND LOGISTICS “A SPECIAL SOLAR DAY” EVENT AND MANY OTHER SCIENCE OUT-REACH EVENTS. COMMUNICATION SKILLS.

**Artistic** PHOTOGRAPHY (ANALOG AND DIGITAL). EXPERIMENTAL PHOTO, ARCHITECTURES (EXTERIOR), ARTWORK. COMPUTER AND WEB GRAPHIC, PHOTO MANIPULATION.

EXHIBITS: ARTE ACCESSIBILE 03/2011 AT BRANACALEONE DI ROMA.  
MEZZOPIENO LOUNGE BAR ROMA 10/2011 (PERSONAL).

COMPUTER SKILLS **Operating Systems** UNIX/LINUX (UBUNTU, DEBIAN), WINDOWS (FROM '95 ON), MAC OS X.

**Servers and databases** OPENSSSH, SUBVERSION, CUPS, MYSQL.

**Languages** C++, PYTHON, L<sup>A</sup>T<sub>E</sub>X 2<sub>ε</sub>, HTML, CSS, XML/XSS.

**Browsers** EXPLORER, FIREFOX, SAFARI, OPERA.

**IT Applications** TUTTO OFFICE/OPENOFFICE, ORIGIN (50 E 70), GNU PLOT, ROOT CERN, PHOTOSHOP (FINO ALLA V. CC), PHOTOMATIX/QTPFSGUI, CORELDRAW, INKSCAPE, EMACS, QUARKX-PRESS 8, ILLUSTRATOR, ADOBE ACROBAT X PRO, INDESIGN, MEDIA ENCODER, COMSOL, FLEXPDE. ESPERTO DI L<sup>A</sup>T<sub>E</sub>X 2<sub>ε</sub>. UTILIZZATORE AVANZATO DI SIMULATORI MONTECARLO (ES. CORSIKA, CASINO, SRIM-TRIM, GEANT4).

FURTHER PERSONAL INTERESTS

PHILOSOPHY, HISTORY OF RELIGIONS, HERMETIC, ANCIENT COSMOLOGIES, SYMBOLICS, ANTHROPOLOGY, PSYCHOLOGY, ARCHITECTURE, HISTORY OF KNOWLEDGE, ART, MUSIC, CINEMA.

SEMINARS

*Cosmogonie: una Storia dell'Uomo e del Simbolo*, INVITED TALK, 16 MAGGIO 2011; PRESSO L'UNIONE OPERAIA DI COLONNATA

*Reflecting on MAGIC reflections*, INVITED TALK, DECEMBER 3RD, 2007; PRESSO L'INSTITUTO DE ASTROFÍSICA DE CANARIAS.

*Bonn 2010 Deutsche Physikalische Gesellschaft Speaker*

*KIAA AstroParticle Physics Sept. 28-29, 2015 Peking University, Beijing, China*

*La professione nell'industria progetto, gestione e design* PRESSO SOCIETÀ UMANITARIA DI MILANO - INVITED TALK: "IL PROGETTISTA GESTIONALE: GESTIRE UN'IDEA, PROGETTARE UN PROGETTO".

*The 7<sup>th</sup> Annual Meeting of the MIFP members, Rome (Italy), from 8th to 11th of March, 2017.* TALK: "DIAMOND DEVICES FOR IONIZING RADIATION DETECTION"

*SEIA 2017 - Talk: 3D diamond detectors with millimeter-long graphite pillared electrodes*

*The 8<sup>th</sup> Annual Meeting of the MIFP members, Rome (Italy), from 28th to February to 3rd of March, 2018.* TALK: "INVESTIGATION OF BURIED GRAPHITE PILLARS IN SCCVD DIAMOND WITH BETA PARTICLES AND PROTONS". *European Materials Research Society - 2018 Fall Meeting* ACCEPTED TALK: "STUDY WITH MEV ELECTRONS AND PROTONS OF GRAPHITE-DIAMOND 3D STRUCTURES" *Venice 2021* ACCEPTED TALK: "SURPRISING MUON AND TAU AIRSHOWER FROM EARTH EDGES AND MOON SHADOWS"

PUBLICATIONS

UPDATE LIST: [HTTPS://WWW.SCOPUS.COM/AUTHID/DETAIL.URI?AUTHORID=34971803600](https://www.scopus.com/authid/detail.uri?authorId=34971803600).

H-INDEX: 15, CITATION: 2406 (SCOPUS 10/21).

PUBLICATIONS: BOOK CHAPTERS

OLIVA P, S. SALVATORI, G. CONTE, V. G. RALCHENKO. DIAMOND DETECTORS WITH GRAPHITE CONTACTS. A CURA DI: PROF. DR. SERGEY Y. YURISH, ADVANCES IN SENSORS: REVIEWS BOOK SERIES, VOL. 5, INTERNATIONAL FREQUENCY SENSOR ASSOCIATION (IFSA).

PUBLICATIONS: BOOKS

OLIVA P (2018). COSMOGONIE & COSMOLOGIE UNA BREVE STORIA DAL SIMBOLO ALLA FISICA. P. 1-160, ROMA: LA LEPRE EDIZIONI, ISBN: 978-88-99389-45-1

FUNDINGS & GRANTS

FUNDING: AIDA-2020 TA PROGRAMME ZAGREB 11/01/2017, AIDA 2020 TA - DESY TEST BEAM SCHEDULE 2019 - TB2 15/11/2018

SUCCESSFUL CANDIDATE: TEACHING FELLOW A.A. 2017/2018 - PROCESSI FISICI IN ENOGASTRONOMIA - MODULO APPLICAZIONI DI INFORMATICA IN ENOGASTRONOMIA (INF/01).

SUCCESSFUL CANDIDATE: SPETTROSCOPIA DI IMPEDENZA IN SEMI-CONDUTTORI NANOSTRUTTURATI, UNIVERSITY ROMA TRE (DIPARTIMENTO DI INGEGNERIA). BANDO 102-2016.

PROJECT LIMACONA - LIGHT-MATTER COUPLING IN COMPOSITE NANO-STRUCTURES ([HTTP://CORDIS.EUROPA.EU/RESULT/RCN/168084\\_IT.HTML](http://cordis.europa.eu/result/rcn/168084_it.html)) - PROJECT ID: 612600 (FP7-PEOPLE).

MEMBERSHIPS

INAF ASSOCIATE - OSSERVATORIO ASTRONOMICO DI ROMA VIA FRASCATI, 33 I-00078 MONTE PORZIO CATONE (ROME), ITALY

CTA - CHERENKOV TELESCOPE ARRAY - MEMBER