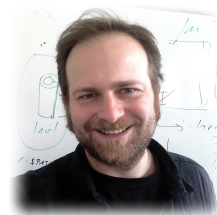


## CONTATTI

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## FISICO

MAJOR: ASTROFISICA E FISICA DELLO SPAZIO (FIS/05), SAPIENZA

PH.D.: SCIENZE DELLA MATERIA, NANOTECNOLOGIE E SISTEMI COMPLESSI (FIS/03), ROMA TRE.

ESPERIENZA  
LAVORATIVA**dall'08/2013** RICERCATORE TIPO A. & PROFESSORE AGGREGATO UNIVERSITÀ DEGLI STUDI NICCOLÒ CUSANO -TELEMATICA DI ROMA- IN

- MISURE ELETTRICHE ED ELETTRONICHE (9 CFU) ING-INF/07 2013-OGGI;
- MISURE PER L'AUTOMAZIONE (9 CFU) 2013/16 (DEATTIVATO);
- FISICA GENERALE II FIS/01 (6 & 9 CFU) 2016-OGGI;

**02/2013** → **10/2013** SOGIN: SOCIETÀ GESTIONE IMPIANTI NUCLEARI, LIV. A1, RICERCA E SVILUPPO PER IL PARCO TECNOLOGICO E DEPOSITO NAZIONALE.**07/2012** → **07/2013** CULTURE DI FISICA, FISICA GENERALE I & II PER INGEGNERIA (PROF. BENNATI).**10/2008** → **10/2010** WISSENSCHAFTLICHER MITARBEITER (RICERCATORE ASSOCIATO) PRESSO L'UNIVERSITÀ STATALE TEDESCA BERGISCHE UNIVERSITÄT WUPPERTAL. GRUPPO: PIERRE AUGER SOUTH OBSERVATORY.**06/2008** → **09/2008** CONTRATTO A COLLABORAZIONE PRESSO IL MAX PLANCK INSTITUT FÜR KERNPHYSIK (MPIK) DI HEIDELBERG (ENTE DI RICERCA NAZIONALE TEDESCO). GRUPPO: ICE CUBE OBSERVATORY.**Freelance Extracurricolari** 06/2019: ORGANIZZATORE & COMITATO SCIENTIFICO MOSTRA "LE ORIGINI DELL'UNIVERSO TRA SCIENZA E MITO", BIBLIOTECA ANGELICA.

06/2011: GRAFICO E FOTOGRAFO FORUM INTERNAZIONALE "PAROLA 2011" PER IL CENTRO STUDI RUSSI DELLA SAPIENZA, ROMA.

08/2011: FOTOGRAFO PER BIRRIFICIO LE COTI NERE, ISOLA D'ELBA E PER EVENTO DAIICHI-SANKYO. AGENZIA SETOUT.

11/2011: FOTOGRAFO PER EVENTO JOHNSON &amp; JOHNSON. AG. NOTRE DAMES.

12/2011: ASSISTENTE PRODUZIONE. AGENZIA SETOUT.

02/2012: GRAFICO, FOTOGRAFO E COMITATO SCIENTIFICO PER EVENTO "LA SCUOLA IN VILLA" (II MUNICIPIO, COMUNE DI ROMA).

05-11-12/2012: FOTOGRAFO PER CAMPUS ANGELINI, SETOUT&amp;NOTRE DAMES.

## LINGUE

ITALIANO (MADRELINGUA), INGLESE (FLUENTE), FRANCESE (FLUENTE), TEDESCO (SCOLASTICO), RUSSO (LIVELLO BASE).

COMPETENZE  
GENERALI

**Tecniche** OPTOELETTRONICA. RIVELATORI DI RADIAZIONE IONIZZANTE A STATO SOLIDO. DIAMANTI SINTETICI, CARATTERIZZAZIONE. ASTROFISICA DELLE ALTE ENERGIE, RAGGI COSMICI, DETETTORI ČERENKOV, A FLUORESCENZA E RADIO, ANTENNE, FOTOMOLTIPLICATORI, ASTRONOMIA DEI NEUTRINI, RADIODETEZIONE DI SCIAMI, GRB E SGR. MISURE DI RADIAZIONE  $\alpha$ ,  $\beta$  E  $\gamma$ , MISURE FONOMETRICHE E D'INQUINAMENTO ELETTROMAGNETICO. LEGHE ODS E GEOPOLIMERI. STORIA DELLA FISICA, ASTROMETRIA.

*Sul campo:* OTTIMA MANUALITÀ CON STRUMENTI MECCANICI E DI PRECISIONE E STRUMENTI DI MISURA CALBRATI (ANCHE PER USO LEGALE). PREMIATO DAI STUDENTI MIGLIOR TUTOR 2010 PER IL CORSO D'ASTROPARTICELLE ALLA BUW.

**Organizzative** SPICCATATA ATTITUDINE PER LA SOCIALIZZAZIONE ED IL LAVORO DI SQUADRA. OTTIMIZZAZIONE RISORSE. ELEVATE CAPACITÀ ORGANIZZATIVE ED ESPERIENZE IN ALLESTIMENTO MOSTRE E PRESENTAZIONI PUBBLICHE, GRAFICO (PREPARAZIONE POSTER, CARTELLONI, PERCORSI), CO-ALLESTITORE, GRAFICA E SCHEDE NELLA MOSTRA "SAROS: TRANSITI, ECLISSI ED OCCULTAZIONI TRA LA MINERVA ED IL COLLEGIO ROMANO" (BIBLIOTECA CASANATENSE), CO-ORGANIZZATORE, LOGISTICA E GRAFICA EVENTO "A SPECIAL SOLAR DAY", DESIGNER E GRAFICO. COMUNICAZIONE SCIENTIFICA, REPORT AL PUBBLICO. ORGANIZZAZIONE E COMITATO SCIENTIFICO MOSTRA "LE ORIGINI DELL'UNIVERSO TRA SCIENZA E MITO" (PRESSO BIBLIOTECA ANGELICA DI ROMA).

**Artistiche** FOTOGRAFIA ANALOGICA E DIGITALE (SPERIMENTALE, ARCHITETTURA, ARTWORK, STILL LIFE, STREET, FOTOGIORNALISMO). GRAFICA, WEB E FOTOMANIPOLAZIONE.

COMPETENZE  
INFORMATICHE

**Operating Systems** UNIX/LINUX (UBUNTU, DEBIAN, SCIENTIFIC LINUX), WINDOWS (DAL '95 AL 10), MAC OS X.

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

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

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

**Applicativi** TUTTO OFFICE/OPENOFFICE, ORIGIN (50 E 70), GNUPLOT, ROOT CERN, PHOTOSHOP (FINO ALLA V. CC), PHOTOMATIX/QTPFSGUI, BEAM4, CORELDRAW, INKSCAPE, EMACS, QUARKXPRESS 8, ILLUSTRATOR, ADOBE ACROBAT X PRO, INDESIGN,

MEDIA ENCODER, COMSOL. ESPERTO DI L<sup>A</sup>T<sub>E</sub>X 2<sub>ε</sub>. UTILIZZATORE AVANZATO DI SIMULATORI MONTECARLO (ES. CORSIKA).

INTERESSI PERSONALI FILOSOFIA, STORIA DELLE RELIGIONI, ERMETICA, ANTICHE COSMOGONIE, COSMOLOGIA, SIMBOLOGIA, ANTROPOLOGIA, PSICOLOGIA, ARCHITETTURA, STORIA DELLA CONOSCENZA, SCIENZE COGNITIVE, ARTE, MUSICA, CINEMA.

SEMINARI *Cosmogonie: una Storia dell'Uomo e del Simbolo*, INVITED TALK, 16 MAGGIO 2011; PRESSO L'UNIONE OPERAIA DI COLONNATA  
[http://dl.dropbox.com/u/30018431/Mito\\_e\\_Logos.pdf](http://dl.dropbox.com/u/30018431/Mito_e_Logos.pdf)

*Reflecting on MAGIC reflections*, INVITED TALK, DECEMBER 3RD, 2007; PRESSO L'INSTITUTO DE ASTROFÍSICA DE CANARIAS.  
[http://mojorojo.magic.iac.es/grbworkshop/talks/Oliva\\_ReflectingOnMagicReflections.ppt](http://mojorojo.magic.iac.es/grbworkshop/talks/Oliva_ReflectingOnMagicReflections.ppt)

*Bonn 2010 Deutsche Physikalische Gesellschaft Speaker* - [HTTP://WWW.DPG-VERHANDLUNGEN.DE/YEAR/2010/CONFERENCE/BONN/PART/T/SESSION/105/CONTRIBUTION/9](http://www.dpg-verhandlungen.de/year/2010/conference/bonn/part/t/session/105/contribution/9)

*KIAA AstroParticle Physics Sept. 28-29, 2015 at Peking University, Beijing, China* - [HTTP://KIAA.PKU.EDU.CN/APH2015/PARTICI.HTM](http://kiaa.pku.edu.cn/APH2015/partici.htm)

*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* - [HTTP://WWW.SENSORSPORTAL.COM/SEIA\\_2017/](http://www.sensorsportal.com/SEIA_2017/)

*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"

***Very long laser-induced graphitic pillars buried in single-crystal CVD-diamond for 3D detectors realization***, *Diamond and Related Materials* 90, (2018) pp. 84-92

***High Precision Integrator for CVD-Diamond Detectors for Dosimetric Applications***, *MeMeA 2018, Proceedings* 8438689

***Solving the missing GRB neutrino and GRB-SN puzzles***, *Nuclear and Particle Physics Proceedings* 297-299, (2018) pp. 249-258

***Investigation with  $\beta$ -particles and protons of buried graphite pillars in single-crystal CVD diamond***, *Diamond and Related Materials* Vo. 84, (2018) pp. 1-10

***Signals of HE atmospheric  $\mu$  decay in flight around the Sun's albedo versus astrophysical  $\nu_\mu$  and  $\nu_\tau$  traces in the Moon shadow***, *International Journal of Modern Physics D* Vol. 27 (2018) 1841002.

***Could GRB170817A be really correlated to an NS-NS merging?***, *International Journal of Modern Physics D* Vol. 27 (2018) 1841001.

***UHECR narrow clustering correlating IceCube through-going muons***, *Nuclear and Particle Physics Proceedings*, Vol. 291-293 (2017) 195-200.

***Nano-carbon pixels array for ionizing particles monitoring*** *Diamond and Related Materials* (2017) 73, 132-136.

***Diamond detectors with laser induced surface graphite electrodes*** *Nuclear Instruments and Methods in Physics Research A*, 837 (2016) 136-142

***Fast 3C 279 gamma flares by a merging medium size black hole jet aligned to the AGN one by tidal torque?*** *PoS MULTIF15* (2016) 053 *SISSA* (2016-10-09)

***Tau Now*** *Nuclear and Particle Physics Proceedings*, Vol. 279-281, 198-205, (2016)

***Diamond device architectures for UV laser monitoring*** *Laser Phys.* 26 (2016) no.8, 084005

***Why not any  $\tau$  double bang in IceCube, yet?*** *PoS FRAPWS2014* (2016) 028, ISSN: 18248039

***The meaning of the UHECR Hot Spots: A Light Nuclei Nearby Astronomy*** *EPJ Web Conf.* 99 (2015) 08002; Conference: C14-08-18.1 *Proceedings*.

***Crossing muons in Icecube at highest energy: Cornerstone to neutrino astronomy***. *Nuclear Physics B, (Proc.Suppl.)* 256-257 (2014) -2013-217.

***Erratum: The lateral trigger probability function for the ultra-high energy cosmic ray showers detected by the Pierre Auger Observatory*** (*Astrop. Phys.* (2011) 35 (266-276))

***The effect of the geomagnetic field on cosmic ray energy estimates and large scale anisotropy searches on data from the Pierre Auger Observatory***. As Member of The Pierre Auger Collaboration. *JCAP11* (2011) 022.

***The Lateral Trigger Probability function for the Ultra-High Energy Cosmic Ray Showers detected by the Pierre Auger Observatory***. As Member of The Pierre Auger Collaboration. *Astroparticle Physics* 35 (2011) 266-276.

***Search for signatures of magnetically-induced alignment in the arrival directions measured by the Pierre Auger Observatory***. As Member of The Pierre Auger Collaboration. *Astroparticle Physics* 35(6), pp. 354-361 2012

**Anisotropy and chemical composition of ultra-high energy cosmic rays using arrival directions measured by the Pierre Auger Observatory.** As Member of The Pierre Auger Collaboration. *JCAP06* (2011) 022.

**Search for First Harmonic Modulation in the Right Ascension Distribution of Cosmic Rays Detected at the Pierre Auger Observatory.** As Member of The Pierre Auger Collaboration. *Astropart.Phys.*34:627-639, 2011.

**Advanced functionality for radio analysis in the Offline software framework of the Pierre Auger Observatory.** As Member of The Pierre Auger Collaboration. *Nucl.Instrum.Meth.*A635:92-102, 2011.

**Trigger and Aperture of the Surface Detector Array of the Pierre Auger Observatory .** As Member of The Pierre Auger Collaboration. *NIM A613* (2010), 29-39.

**Update on the correlation of the highest energy cosmic rays with nearby extragalactic matter.** As Member of The Pierre Auger Collaboration. Accepted for publication in *Astroparticle Physics* on 31 August 2010.

**The Fluorescence Detector of the Pierre Auger Observatory.** As Member of The Pierre Auger Collaboration. *Nucl. Instr. and Methods in Phys. Research Section A.*

**Calibration and Monitoring of the Pierre Auger Observatory.** As Member of The Pierre Auger Collaboration. Contributions to the 31st International Cosmic Ray Conference, Lodz, Poland, July 2009.

**Operations of and Future Plans for the Pierre Auger Observatory.** As Member of The Pierre Auger Collaboration. Contributions to the 31st ICRC, Lodz, Poland, 7/2009.

**Astrophysical Sources of Cosmic Rays and Related Measurements with the Pierre Auger Observatory.** As Member of The Pierre Auger Collaboration. 31st ICRC, Lodz, Poland, 7/2009.

**Studies of Cosmic Ray Composition and Air Shower Structure with the Pierre Auger Observatory.** As Member of The Pierre Auger Collaboration. 31st ICRC, Lodz, Poland 7/2009.

**The Cosmic Ray Energy Spectrum and Related Measurements with the Pierre Auger Observatory.** As Member of The Pierre Auger Collaboration. 31st ICRC 2009.

**Baily's beads atlas in 2005-2008 eclipses.** *Solar Physics*, Vol. 258, Issue 2, pp.191-202.

**The XRF080109-SN2008D and a decade of GRB-Jet-SN connection.** *SIF, Conf. Proceedings. Vulcano Workshop 2008*; 351-362 .

**Reflecting on Čerenkov reflections.** *HEP 2007 J.Phys. Conf.Ser.* 110:062008, 2008.

**Čerenkov Flashes and Fluorescence Flares on Telescopes: New lights on UHECR Spectroscopy while unveiling Neutrinos Astronomy.** *NIM A* (2008) 588/1-2 pp 146-150.

**Splitting neutrino masses and showering into Sky.** *Nucl.Phys. B*, Vol 168; 292-295; 2007.

**Solving GRBs and SGRs puzzles by precessing Jets.** *Proceedings of the 4th Workshop, Isola d'Elba, Italy 20-22 June 2006*, p.133-142, world Sc. Publ., 2007.

**Updated Z-Burst Neutrinos at Horizons.** *Nucl. Phys. B (Proc. Suppl.)* 165 (2007) 116,121.

**UHE Cosmic Rays and Neutrinos Showering on Planet Edges.** *Nucl.Phys. B (Proc. Suppl.)* 165 (2007) 207, 214.

**Astrometry and Relativity II: Solar Grazes & Solar Diameter.** *Journal of the Korean Physical Society*, Vol. 49, No. 2, 2006, pp. 840-844.

**Solar Oblateness from Archimedes to Dicke.** *Nuovo Cimento B*, 120, Issue 10, 1181 2005.

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

PUBLICATIONS: OLIVA P (2018). COSMOGONIE & COSMOLOGIE UNA BREVE STORIA  
BOOKS 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 - PRO-  
CESSI FISICI IN ENOGASTRONOMIA - MODULO APPLICAZIONI DI INFOR-  
Matica IN ENOGASTRONOMIA (INF/01).

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

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