europass Curriculum vitae

INFORMAZIONI PERSONALI

Campani Marco

Data di nascita 05/10/1961 | Nazionalità Italiana

ESPERIENZA PROFESSIONALE

01/02/2010–alla data attuale

Responsabile dell'Ufficio per il Supporto Tecnico Amministrativo agli Istituti SPIN, IOM e NANO di Genova

Consiglio Nazionale delle Ricerche
Piazzale Aldo Moro, 7, 00185 Roma (Italia)
http://www.cnr.it

Coordinamento attività ufficio (Servizi Generali, Gare e Appalti, Gestione Progetti di Ricerca, Reclutamento Personale, Consulenza Fiscale)

Attività o settore Ente pubblico di ricerca

06/2010–05/2012

Membro del CdA della Società Columbus Superconductors SpA

Consiglio Nazionale delle Ricercha, Roma (Italia)

2003–2014

Consulente servizi e infrastrutture ICT (supporto alla realizzazione della manifestazione)

Associazione Festival della Scienza, Genova (Italia)

Supporto tecnico-logistico per la progettazione e realizzazione di collegamenti dati/fonia per i diversi allestimenti della manifestazione. Supporto tecnico-logistico per i sistemi di web ticketing, e-commerce e pos.

01/02/2010–31/12/2011

Responsabile per gli adempimenti di chiusura dell'ex Centro di Responsabilità Scientifica di primo livello INFM - CNR

Consiglio Nazionale delle Ricerche, Roma (Italia)

Gestione del trasferimento delle disponibilità finanziarie verso altre strutture CNR; organizzazione della suddivisione del patrimonio;

01/12/2009–31/01/2010

Direttore f.f. Istituto Nazionale della Fisica della Materia - CNR

Consiglio Nazionale delle Ricerche, Roma (Italia)

Coordinamento gestione amministrativa

01/02/2009–30/11/2009

Responsabile delegato Istituto Nazionale per la Fisica della Materia - CNR - Sede di Genova

Consiglio Nazionale delle Ricerche, Roma (Italia)

Coordinamento funzionale delle attività della sede (gestione amministrativa, del personale e delle attività di supporto alla rete scientifica)

04/2008–07/2010

Membro commissione Spin-Off progetto UNI.T.I.

Consorzio UNI.T.I.

Via Balbi, 5 c/o Università degli Studi di Genova, 16100 Genova (Italia)
http://www.progettouniti.it/

Attività di valutazione di progetti per il trasferimento tecnologico e la creazione di spin off accademici; valutazione di business plan finalizzati alla creazione di impresa

Attività o settore Promozione del trasferimento tecnologico

09/2004–12/2005 **Consulente ICT**

Fondazione Istituto Italiano di Tecnologia
Via Morego, 30, 16163 Genova (Italia)
http://www.iit.it

Analisi e progettazione dei servizi ICT collegati alla fase di start-up della Fondazione IIT

Attività o settore Ente pubblico di ricerca

01/10/2010–31/01/2009 **Coordinatore responsabile nazionale ICT dell'Istituto Nazionale per la Fisica della Materia**

Istituto Nazionale per la Fisica della Materia (in seguito Consiglio Nazionale delle Ricerche)
Corso F. M. Perrone, 24, 16152 Genova (Italia)

Reponsabile progettazione e sviluppo servizi ICT su rete geografica distribuita; coordinamento gestione banche dati; coordinamento attività di formazione e aggiornamento su tematiche ICT. Da gennaio 2006 incaricato anche del coordinamento dell'Area Servizi Generali INFM (supporto giuridico, coordinamento amministrativo).

Attività o settore RIcerca scientifica

2006–alla data attuale **Gare e Appalti - Impianti e strumentazione scientifica**

In qualità di esperto, nell'ambito dell'UO Supporto Giuridico Appalti e Gare dell'Ufficio per il Supporto Tecnico Amministrativo agli Istituti SPIN, IOM e NANO del CNR, svolge le seguenti attività:

- Supporto alla definizione e stesura di Capitolati
- Supporto alla definizione di contratti
- Partecipazione a Commissioni di Gara (oltre 50 alla data odierna)

01/12/1996–30/09/2000 **Responsabile dipartimentale servizi ICT - Dipartimento di Fisica**

Università degli Studi di Genova, Genova (Italia)

Gestione ed amministrazione dei servizi ICT su rete locale e rete distribuita; progettazione e sviluppo reti le servizi ICT; coordinamento del personale tecnico di supporto

01/10/1992–30/11/1996 **Ricercatore**

Istituto Nazionale per la Fisica della Materia
Corso F. M. Perrone, 24, 16152 Genova (Italia)

Attività di ricerca focalizzata sia nelle tecniche di imaging e di misura ottiche presso il gruppo di biofisica INFM - Università di Genova sia nel settore della machine vision presso il locale Gruppo di robotica ed intelligenza artificiale

Attività o settore Ente pubblico di ricerca

10/1992–06/1996 **Docente universitario a contratto**

Università degli Studi di Genova, Genova (Italia)

Attività di docenza sia in moduli del corso di Riconoscimento Automatico delle Forme - Corso di Laurea in Informatica - Facoltà di Scienza M.F.N. sia in corsi seminariali sulla programmazione e sui sistemi di elaborazione dati

1986–1992

Consulente ICT

Assitecno s.n.c, Genova (Italia)

Attività di consulenza e sviluppo nel settore ICT prestate ad operatori pubblici e privati (progettazione e sviluppo di sistemi per la gestione amministrativa; progettazione e sviluppi di sistemi per l'analisi di mercato; progettazione e sviluppo di sistemi di controllo per la produzione).

ISTRUZIONE E FORMAZIONE

09/2010

None - 3rd Summer School on Network and Information Security

Foundation for Research and Technology - Institute of Computer Science, Heraklion (Grecia)

10/1980–12/1990

Laurea in Fisica

Università degli Studi di Genova, Genova (Italia)

COMPETENZE PERSONALI

Lingua madre: italiano

Altre lingue

	COMPRENSIONE		PARLATO		PRODUZIONE SCRITTA
	Ascolto	Lettura	Interazione	Produzione orale	
inglese	B2	C2	B2	B2	B2

Livelli: A1 e A2: Utente base - B1 e B2: Utente autonomo - C1 e C2: Utente avanzato
Quadro Comune Europeo di Riferimento delle Lingue

Competenze comunicative: Ottime capacità relazionali e comunicative; buona capacità di adattamento in ambienti multiculturali favorita dal costante contatto con una comunità ampia di collaboratori.

Competenze organizzative e gestionali: Buone capacità di coordinamento di persone (attualmente responsabile di un gruppo di 21 persone) e gestione progetti, maturate in tutte le esperienze lavorative su tematiche anche profondamente differenti. Buone capacità organizzative maturate nel contesto lavorativo. Buone esperienze di gestione del bilancio acquisite nel contesto lavorativo (logistica, facility management).

Competenze professionali: Competenza in contabilità pubblica e nel settore gare e appalti acquisite nel contesto lavorativo. Esperienza nel controllo di gestione amministrativa e contabile, nel monitoraggio della spesa e nella programmazione.

Competenza digitale: Networking - dalla progettazione alla direzione della realizzazione ed al collaudo di cablaggi strutturati. Installazione e configurazione di apparati attivi (Router, Switch, Access Point) e relativi servizi (aggregazione di banda, failover, redundant path, ...); segmentazione del traffico ed instradamento. Installazione e configurazione di appliance (VoIP, Firewall, Proxy, VPN).

SysAdm - dall'analisi delle necessità alla progettazione ed implementazione del parco server. Dimensionamento delle risorse Hardware e Software. Configurazione ed installazione di Server (Directory Server, Email, Web, FTP, PBX VoIP, NAS, SAN) sia utilizzando tecnologie proprietarie (Microsoft, Apple) sia tecnologie Open Source.

Database, Middleware, System Integration -dall'analisi delle esigenze alla proposta delle piattaforme applicative. Installazione ed amministrazione di DBMS e sistemi Web based (ERP,

Propone le piattaforme applicative più adatte alle

esigenze del cliente. Installa ed amministra DBMS e sistemi evoluti Web Based (ERP, ECM,

CMS, CRM).

ULTERIORI INFORMAZIONI

Pubblicazioni

1) **Learning To Recognize Visual Dynamic Events From Examples**

Pittore M, Campani M, Verri A

INTERNATIONAL JOURNAL OF COMPUTER VISION

2000, VL 38 IS 1 PP 35-44

DOI: 10.1023/A:1008114700759

2) **The Use Of Optical Flow For Road Navigation**

Giachetti A, Campani M, Torre V

IEEE TRANSACTIONS ON ROBOTICS AND AUTOMATION

1998, VL 14 IS 1 PP 34-48

DOI: 10.1109/70.660838

3) **Ccd Imaging Of The Electrical Activity In The Leech Nervous System**

Canepari M, Campani M, Spadavecchia L, Torre V

EUROPEAN BIOPHYSICS JOURNAL WITH BIOPHYSICS LETTERS

1996, VL 24 IS 6 PP 359-370

DOI: 10.1007/BF00576708

4) **Electrical Activity In The Leech Nervous System Can Be Studied Using A Ccd Imaging Technique**

Canepari M, Campani M

NEUROBIOLOGY: IONIC CHANNELS, NEURONS, AND THE BRAIN

NATO SCIENCE SERIES A 1996, VL 289 PP 265-275

5) **Robust Method For Road Sign Detection And Recognition**

Piccioli G, De Micheli E, Parodi P, Campani M

IMAGE AND VISION COMPUTING

1996, VL 14 IS 3 PP 209-223

DOI: 10.1016/0262-8856(95)01057-2

6) **Optic Flow And Autonomous Navigation**

Campani M, Giachetti A, Torre V

PERCEPTION 1995, VL 24 IS 3 PP 253-267

DOI: 10.1068/p240253

7) **Color Cues For Traffic Scene Analysis**

De Micheli E, Prevete R, Piccioli G, Campani, M

IEEE Intelligent Vehicles Symposium 1995, Proceedings PP 466-471

8) **Artificial Systems And Complex Behaviours**

Martinengo A, Campani M, Torre V
IROS 1994 – Intelligent Robots and Systems PP 194-201

9) **Complex Tasks And Control Strategies Of Robots**

Martinengo A, Campani M, Torre V

1994 IEEE INTL Conference on Robotics and Automation PP 861-866

DOI: 10.1109/ROBOT.1994.351381

10) **Robust Road Sign Detection And Recognition From Image Sequences**

Piccioli G, De Micheli E, Parodi P, Campani M

IEEE Intelligent Vehicles Symposium 1994, Proceedings PP 278-283

11) **Recovery Of Optical Flow For Intelligent Cruise Control**

Giachetti A., Campani M., Sanni R., Succi A.,
IEEE Intelligent Vehicles Symposium1994 , Proceedings PP 91-96

12) **Detection Of Lane Boundaries, Intersections And Obstacles**

Cappello M., Campani M., Succi A.
IEEE Intelligent Vehicles Symposium 1994, Proceedings PP 284-289

13) **The Use Of Optical Flow For Autonomous Navigation**

Giachetti, A; Campani, M; Torre, V

Proceedings of ECCV 1994 Springer Lecture Notes in Computer Science

PP 146-151 DOI: 10.1007/3-540-57956-7_16
14) **A Robust Method For Road Sign Detection And Recognition**

Piccioli, G.; De Micheli, E.; Campani, M.
Proceedings of ECCV 1994 Springer Lecture Notes in Computer Science

PP 493-500 DOI: 10.1007/3-540-57956-7_55
15) **Extraction Of Vanishing Points From Images Of Indoor And Outdoor Scenes**

Straforini, M; Coelho, C; Campani, M
IMAGE AND VISION COMPUTING

1993 VL 11 IS 2 PP 91-99

DOI: 10.1016/0262-8856(93)90075-R
16) **Complex Tasks And Robots**

Martinengo, A; Campani, M; Torre, V.
International Conference on Artificial Neural Networks PP 319

DOI: 10.1007/978-1-4471-2063-6_75
17) **Visual Routines For Outdoor Navigation**

Campani, M.; Cappello, M.; Piccioli, G.; Reggi, E.; Straforini, M.; Torre, V.
IEEE Intelligent Vehicles Symposium 1993, Proceedings PP 107-112
DOI: 10.1109/IVS.1993.697306
18) **Complex Tasks And Robots**

Martinengo A, Campani M, Torre, V
IEEE Intelligent Vehicles Symposium 1993, Proceedings

PP 267-270 DOI: 10.1109/IVS.1993.697334
19) **Identifying Multiple Motions From Optical-Flow**

Rognone, A; Campani, M; Verri, A
Proceedings of ECCV 1992 Springer Lecture Notes in Computer Science 1992 VL 588 PP 256-266
20) **Motion Analysis From 1St-Order Properties Of Optical-Flow**

Campani, M; Verri, A
CVGIP-IMAGE UNDERSTANDING 1992 VL 56 IS 1

PP 90-107 DOI: 10.1016/1049-9660(92)90088-K
21) **Organic Cation Selectivity Of The Cgmp-Activated Channel In Retinal Rods**

Menini, A; Picco, C; Campani, M
FASEB JOURNAL 1992 VL 6 IS 1 PP A427
22) **The Recovery And Understanding Of A Line Drawing From Indoor Scenes**

Straforini, M; Coelho, C; Campani, M; Torre, V
IEEE TRANSACTIONS ON PATTERN ANALYSIS AND MACHINE INTELLIGENCE

1992 VL 3 PP 121-137

DOI: 10.1109/34.121797
23) **The Use Of Optical-Flow For The Autonomous Navigation**

Malisia, A; Baghino, A; Campani, M; Straforini, M; Torre, V
INTERNATIONAL JOURNAL OF NEURAL SYSTEMS

1992 VL 3 PP 121-137

DOI: 10.1142/S0129065792000450
24) **A Quantitative Model Of Phototransduction And Light Adaptation In Amphibian Rod Photoreceptors**

Torre V., Straforini M., Campani M.,
Seminars in Neuroscience 1992 VL 4 IS 1 PP 5-13
25) **A 1St Order Differential Technique For Optical-Flow**

Campani, M; Straforini, M; Verri, A
MOBILE ROBOTS V - Proceedings of SPIE - The International Society for Optical Engineering
1991 VL 1388 PP 409-414
DOI: 10.1117/12.48095
26) **A Fast And Precise Method To Extract Vanishing Points**

Coelho, C; Straforini, M; Campani, M
MOBILE ROBOTS V - Proceedings of SPIE - The International Society for Optical Engineering

1991 VL 1388 PP 398-408
DOI: 10.1117/12.48094
27) **A Fast And Precise Method To Extract Vanishing Points**

Straforini, M; Coelho, C; Campani, M
CLOSE-RANGE PHOTOGRAMMETRY MEETS MACHINE VISION, PTS 1 AND 2 1990 VL 1395 PP 266-274
28) **Computing Optical-Flow From An Overconstrained System Of Linear Algebraic Equations**

Campani, M; Verri, A
THIRD INTERNATIONAL CONFERENCE ON COMPUTER VISION - ICCV 90 PP 22-26
29) **Model Of Phototransduction In Retinal Rods**

Torre, V; Forti, S; Menini, A; Campani, M
COLD SPRING HARBOR SYMPOSIA ON QUANTITATIVE BIOLOGY

1990 VL 55 PP 563-573

DOI: 10.1101/SQB.1990.055.01.054
30) **Using Geometrical Rules And A Priori Knowledge For The Understanding Of Indoor Scenes**

Coelho, C; Straforini, Marco; Campani, M

Proceedings of the British Machine Vision Conference - BMVC 1990

PP 41.1-41.6

DOI: http://dx.doi.org/10.5244/C.4.41

CURRICULUM VITAE

Federico Cilento

PERSONAL INFORMATION

Name, Surname	Federico Cilento
Address	
Date of Birth	24-04-1983
Place of Birth	
Nationality	Italian
Phone	
Mobile	
Skype	
E-Mail	
Personal Webpage	
Institution	Elettra – Sincrotrone Trieste S.C.p.A., Strada Statale 14, km 163.5, 34149 Basovizza, Trieste, Italy

EDUCATION

1997-2002	Diploma di Maturità Scientifica Liceo Scientifico Statale "G. Aselli" – Cremona Grade: 98/100
2002-2005	Bachelor Degree in Physics Università Cattolica del Sacro Cuore – Brescia Thesis Title: "Dinamiche Strutturali di Nanosistemi Ordinati Eccitati da Impulsi Laser Ultracorti" Supervisor and Assistant Supervisor: Dr. Gabriele Ferrini, Prof. Fulvio Parmigiani Grade: 110/110 with 'Lode' – Link to PDF version
2005-2007	Master Degree in Physics Università Cattolica del Sacro Cuore – Brescia Thesis Title: "Dinamiche Elettroniche Fotoindotte in Superconduttori ad Alta Temperatura Critica" Supervisor and Assistant Supervisor: Dr. Gabriele Ferrini, Dr. Claudio Giannetti Grade: 110/110 with 'Lode' – Link to PDF version
2009-2011	PhD in Physics c/o the University of Trieste – Physics Department Research Activity performed c/o the Elettra Synchrotron (T-ReX), Basovizza, Trieste Title: "Non-equilibrium phase diagram of Bi2212 cuprate superconductors revealed by ultrafast optical spectroscopy" Supervisor: Prof. Fulvio Parmigiani – Link to PDF version

WORKING EXPERIENCES

2008	Collaboration Contract c/o the Università Cattolica del Sacro Cuore – Brescia (DMF, Department of Mathematics and Physics, Elphos Laboratory) Activity: Setting-up and characterization of a system for ultrafast time-resolved (pump/probe) optical spectroscopy with supercontinuum probe.
2012	Collaboration Contract c/o the Elettra Synchrotron, Basovizza, Trieste Activity: Study of surface states and Fermi surfaces in materials with a strong electronic correlation, particularly HTSC and topological insulators, through time-resolved ARPES (Angular Resolved PhotoEmission Spectroscopy). Development of optical systems, control electronics and TOF (time-of-flight) detector.

2012-2016	Four-Years Postdoc Position at the T-ReX Laboratory, FERMI@Elettra Project, Elettra – Sincrotrone Trieste S.C.p.A. (Trieste, Italy). Aim of the position was to develop ultrafast, time-resolved optical and photoelectron spectroscopies that will be part of the new T-ReX facility, opened to users in 2016/2017. During the project, the design and specifications of the new T-ReX facility in the FERMI Experimental Hall has been developed. The T-ReX Laboratory has been moved in the new place and successfully commissioned. Several upgrades to the scientific instrumentation have been performed, including the laser sources and the hemispherical analyzer. An ultrafast 9.3 eV photon source has been developed, and an advanced HHG source is currently under design. The scientific activity included the study of cuprate and iron-based superconductors with both optical and photoelectronic ultrafast probes, TR-ARPES studies on graphene and on topological insulators, as well as the development of a novel laser-driven UV source for TR-ARPES studies. These studies have led to the publication of more than 15 papers on peer-reviewed journals. Several proposals for access to national and international facilities have been written and obtained beamtime. The scientific results have been presented at international conferences and workshops.
Since 2016	Scientist in charge of the T-ReX Laboratory and Facility, Elettra – Sincrotrone Trieste S.C.p.A. (Trieste, Italy).

RESEARCH INTERESTS

My research activity concerns the study of the physical properties displayed by materials characterized by strong electronic correlations (Cuprates, Pnictides, $CuGeO_3$, VO_2), leading to unusual and interesting ordered phases (like superconductivity and magnetism). My approach to face the problem exploits time-resolved spectroscopies, both optical and photoelectronic, based on ultrashort (<100 fs) laser pulses combined in a pump-and-probe scheme. In particular, I demonstrated that the study of states of matter under non-equilibrium conditions can reveal new and interesting phenomena about the material under scrutiny, that are hidden at equilibrium. My research activities are based on novel time resolved spectroscopies, including time-resolved optical spectroscopy with broadband probe (covering the visible and near infrared spectral regions) and time- and angle-resolved photoelectron spectroscopy (TR-ARPES) with probe in the near- and extreme-ultraviolet, that I developed and commissioned. In particular, I developed a novel ultrafast source producing ≈9 eV ultrashort pulses at 50-250 kHz, and a HHG beamline at high-repetition rate for TR-ARPES studies. These sources will be important for the study of the non-equilibrium electronic properties of complex materials over their entire Brillouin Zone.

RESEARCH EXPERIENCE

- Study of time-resolved, non-equilibrium optical properties of superconducting materials (Copper and Iron Oxydes) and in general of systems with a strong electronic correlation.
- Development of mathematical models for the interpretation of the optical properties of a material under non-equilibrium conditions.
- Deep knowledge and experience as operator and user of several kinds of laser systems (oscillators, amplified systems) and optical devices, design of pump-probe setups, ultrafast spectroscopy with laser radiation in the UV, visible, near-IR and mid-IR spectral regions, high-harmonic generation.
- Knowledge and design of systems for Angular-Resolved-Photoelectron-Spectroscopy (ARPES), also in combination with high-harmonic generation sources for TR-ARPES studies.
- Experience as a user at facilities based on high-harmonic generation and familiarity with experiments at beamlines exploiting synchrotron and free-electron-laser radiation.

SCHOOLS, CONFERENCES AND WORKSHOPS

1. (2009) "XIV Training course on the physics of strongly correlated systems"
   Vietri sul Mare (SA, Italy), 5-16 October 2009, http://scs.physics.unisa.it/TCXIV/

2. (2010) "XV Training course on the physics of strongly correlated systems"
   Vietri sul Mare (SA, Italy), 4-15 October 2010, http://scs.physics.unisa.it/TCXV/

3. LEES 2010 (Low Energy Electrodynamics in Solids)
   Les Diablerets (Switzerland), 5-10 July 2010

4. NGSCES 2012 (New Generation in Strongly Correlated Electronic Materials)
   Portoroz (Slovenia), 25-29 June 2012

5. ICESS2012 (12^{th} International Conference on Electronic Structure and Spectroscopy)
   Saint Malo (France), 16-21 September 2012

6. NGSCES 2013 (New Generation in Strongly Correlated Electronic Materials)
   Sestri Levante (Italy), 30 June – 05 July 2013

7. ICTP, *Conference on* Ultrafast Dynamics of Correlated Materials
   Trieste (Italy), 14-18 October 2013

8. ICTP, *Conference on* Frontiers of Condensed Matter Physics
   Trieste (Italy), 11-15 November 2014

9. REGINA, *Workshop on* Research on Graphene: Growth, Characterization and Applications
   Trieste (Italy), 3-4 December 2013

10. PIPT5 (Photoinduced Phase Transitions and Cooperative Phenomena)
    Bled (Slovenia), 8-13 June 2014

11. NGSCES 2014 (New Generation in Strongly Correlated Electronic Materials)
    Nice (France), 16-20 June 2014

12. LEES 2014 (Low Energy Electrodynamics in Solids)
    Loire Valley (France), 29 June – 04 July 2014

13. SuperFOx 2014 (Superconductivity and Functional Oxides)
    Rome (Italy), 24-26 September 2014

14. ICTP, *Workshop on* Probing and Understanding Exotic Superconductors and Superfluids
    Trieste (Italy), 27-31 October 2014

15. Elettra, *Workshop on* INTEGRATING TABLE-TOP LASER, SEEDED-FREE ELECTRON LASER AND STORAGE RING SOURCES FOR TIME RESOLVED SPECTROSCOPIES (NFFA/T-REX)
    Trieste (Italy), 1-2 December 2014

16. SCSR 2014, Workshop on Novel Superconductors and Synchrotron Radiation: state of the art and novel perspectives
    Trieste (Italy), 10-11 December 2014

17. M2S 2015 (Materials and Mechanisms of Superconductivity)
    Geneva (Switzerland), 23-28 August 2015

18. TRENDOXIDES 2015, Workshop on New TRENDs in Correlated OXIDES and Interfaces
    Brescia (Italy), 16-18 November 2015

19. Krvavec 2015, Workshop on Non-Equilibrium Phenomena in Quantum Matter: new observations and new theories
    Krvavec (Slovenia), 13-16 December 2015

20. GRC 2016, Ultrafast Phenomena in Cooperative Systems (Gordon Research Conference)
    Revealing Coupled Interactions in Complex Matter – Towards Control of Material Properties
    Barga (Lucca, Italy), 14-19 February 2016

21. SNS 2016, Spectroscopies in Novel Superconductors
    Ludwigsburg (Stuttgart, Germany), 19-24 June 2016

22. Science@FELs 2016
    Trieste (Italy), 5-7 September 2016

23. SuperFOx 2016
    Torino (Italy), 19-21 September 2016

24. NGSCES 2016 (New Generation in Strongly Correlated Electronic Materials)
    Trieste (Italy), 26-30 September 2016

25. UDSCS 2016 (Second Workshop on Ultrafast Dynamics in Strongly Correlated Systems)
    Villigen (Switzerland), 10-12 October 2016

26. Krvavec 2016, Workshop on Non-Equilibrium Phenomena in Quantum Systems
    Krvavec (Slovenia), 17-21 December 2016

27. TPES 2017, Time-resolved Photoelectron Spectroscopy from tabletop UV and HHG laser sources, Synchrotrons and FELs: experiments and challenges
    Trieste (Italy), 25-27 January 2017

TALKS

1. Invited Talk at TRR-80, Augsburg University (May 2012)
   The Phase Diagram of $Bi_2Sr_2Ca_{0.92}Y_{0.08}Cu_2O_{8+\delta}$ cuprate superconductors revealed by non-equilibrium optical spectroscopy.

2. Contributed Talk at NGSCES 2013 (July 2013)
   Drawing a Phase Diagram for High-Tc Cuprates by out-of-equilibrium spectroscopies.

3. Contributed Talk at PIPT5 (June 2014)
   Photo-Enhanced Antinodal Conductivity in the Pseudogap Phase of High-Tc cuprates.

4. Contributed Talk at NGSCES 2014 (June 2014)
   Photo-Enhanced Antinodal Conductivity in the Pseudogap Phase of High-Tc cuprates.

5. Contributed Talk at LEES 2014 (July 2014)
   Photo-Enhanced Antinodal Conductivity in the Pseudogap Phase of High-Tc cuprates.

6. Contributed Talk at SuperFOx 2014 (September 2014)
   Photo-Enhanced Antinodal Conductivity in the Pseudogap Phase of High-Tc cuprates.

7. Invited Talk at SCSR 2014 (December 2014)
   Photo-Enhanced Antinodal Conductivity in the Pseudogap Phase of High-Tc cuprates.

8. Contributed Talk at M^2S 2015 (August 2015)
   Photo-Enhanced Antinodal Conductivity in the Pseudogap Phase of High-Tc cuprates.

9. Invited Talk at TRENDOXIDES 2015 (November 2015)

   Time-resolved XUV photoemission: a new clue for understanding the ultrafast dynamics in copper oxides.

10. Invited Talk at KRVAVEC 2015 (December 2015)

    Time-resolved XUV photoemission: a new clue for understanding the ultrafast dynamics in copper oxides.

11. Contributed Talk at GRS (Gordon Research Seminar) 2016 (February 2016)
    Time-resolved XUV photoemission: a new clue for understanding the ultrafast dynamics in copper oxides.

12. Contributed Talk at SNS 2016 (June 2016)
    Time-resolved XUV photoemission: a new clue for understanding the ultrafast dynamics in copper oxides.

13. Contributed Talk at Science@FELs 2016 (September 2016)
    Table-top ultrafast optical and photoelectron spectroscopies provide a new clue for understanding the relaxation dynamics in copper oxides.

ACCEPTED PROPOSALS AT INTERNATIONAL FACILITIES

1. Manipulation of the superconducting gap in high-temperature superconductors via short THz pulses.
   FELBE @ **HZDR**, Dresden (Germany)

2. Time resolved ARPES study of out-of-equilibrium topological insulator: photo-induced phase transition between non trivial-to-trivial topology.
   ARTEMIS @ **CLF** @ **RAL**, Didctot, Oxfordshire (United Kingdom)

3. Addressing the electron-phonon coupling in graphene in the time-domain.
   ARTEMIS @ **CLF** @ **RAL**, Didctot, Oxfordshire (United Kingdom)

4. Directly observing the ultrafast dynamics of massive Dirac fermions in bilayer graphene.
   ARTEMIS @ **CLF** @ **RAL**, Didctot, Oxfordshire (United Kingdom)

5. Unveiling the role of the Mott-like electronic excitations in high-temperature superconductivity by time-resolved photoemission.
   ARTEMIS @ **CLF** @ **RAL**, Didctot, Oxfordshire (United Kingdom)

6. Unveiling the electron dynamics at the quantum critical point in copper oxides.
   HFML, Nijmegen (The Netherlands)

7. Tr-ARPES study of anatase TiO_2: Electron-hole timing in a photoactive material.
   ARTEMIS @ **CLF** @ **RAL**, Didctot, Oxfordshire (United Kingdom)

8. Unfolding the relation between charge order and the dynamics of quasiparticles and oxygen states in cuprate superconductors.
   ARTEMIS @ **CLF** @ **RAL**, Didctot, Oxfordshire (United Kingdom)

LANGUAGE SKILLS

Italian mother tongue, English fluent.

COMPUTER AND ELECTRONIC COMPETENCES

Excellent knowledge of Computer Hardware and Software (PC-Mac-Linux). Of peculiar relevance for my research activity in Physics I can mention: Wavemetrics Igor Pro, Mathworks Matlab, National Instruments Labview, LaTeX, Gimp, Office, OpenOffice. Excellent knowledge of the fundamentals of Electronics and Data Acquisition. In particular, I designed, developed, build and tested several apparatus to perform time-resolved optical measurement, from both the optical, electronic and data acquisition points of view. I am able to program National Instruments and Spectrum acquisition devices.

TEACHING ACTIVITIES

Tutor for the experimental activities of Bachelor, Master and PhD students at the T-ReX Laboratory, FERMI@Elettra, Elettra – Sincrotrone Trieste.

Correlator of two Bachelor Students at the Physics Department – University of Trieste:

- Damir Kopic, Title: Dinamiche elettroniche fuori equilibrio in un superconduttore a base di ferro.
- Enrico D'Incecco, Title: Studio delle proprietà ottiche dei sistemi superconduttori $Sr_{1-x}La_xFBiS_2$ mediante spettroscopia infrarossa.

PUBLICATIONS

To June 09, 2016: 34 publications; 638 citations, h Index 15 (Scopus); 956 citations, h Index 17 (Scholar)

- F. Novelli, G. Giovannetti, A. Avella, **F. Cilento**, L. Patthey, M. Radovic, M. Capone, F. Parmigiani, and D. Fausti
  Localized vibrations in superconducting $YBa_2Cu_3O_7$ revealed by ultrafast optical coherent spectroscopy
  Phys. Rev. B **95**, 174524 (2017)

- A. Sterzi, G. Manzoni, L. Sbuelz, **F. Cilento**, M. Zacchigna, Ph. Bugnon, A. Magrez, H. Berger, A. Crepaldi, and F. Parmigiani
  Bulk diffusive relaxation mechanisms in optically excited topological insulators
  Phys. Rev. B **95**, 115431 (2017)

- A. Crepaldi, G. Autès, A. Sterzi, G. Manzoni, M. Zacchigna, **F. Cilento**, I. Vobornik, J. Fujii, Ph. Bugnon, A. Magrez, H. Berger, F. Parmigiani, O. V. Yazyev, and M. Grioni
  Persistence of a surface state arc in the topologically trivial phase of $MoTe_2$
  Phys. Rev. B **95**, 041408(R) (2017)

- M. Dell'Angela, F. Hieke, M. Malvestuto, L. Sturari, S. Bajt, I. V. Kozhevnikov, J. Ratanapreechachai, A. Caretta, B. Casarin, F. Glerean, A. M. Kalashnikova, R. V. Pisarev, Y.-D. Chuang, G. Manzoni, **F. Cilento**, R. Mincigrucci, A. Simoncig, E. Principi, C. Masciovecchio, L. Raimondi, N. Mahne, C. Svetina, M. Zangrando, R. Passuello, G. Gaio, M. Prica, M. Scarcia, G. Kourousias, R. Borghes, L. Giannessi, W. Wurth, and F. Parmigiani
  Extreme ultraviolet resonant inelastic X-ray scattering (RIXS) at a seeded free-electron laser
  Scientific Reports **6**, 38796 (2016)

- G. Manzoni, L. Gragnaniello, G. Autès, T. Kuhn, A. Sterzi, **F. Cilento**, M. Zacchigna, V. Enenkel, I. Vobornik, L. Barba, F. Bisti, Ph. Bugnon, A. Magrez, V. N. Strocov, H. Berger, O. V. Yazyev, M. Fonin, F. Parmigiani, and A. Crepaldi
  Evidence for a Strong Topological Insulator Phase in $ZrTe_5$
  Phys. Rev. Lett. **117**, 237601 (2016)

- G. Manzoni, A. Crepaldi, G. Autès, A. Sterzi, **F. Cilento**, A. Akrap, I. Vobornik, L. Gragnaniello, Ph. Bugnon, M. Fonin, H. Berger, M. Zacchigna, O.V. Yazyev, and F. Parmigiani
  Temperature dependent non-monotonic bands shift in $ZrTe_5$
  J. Electr. Spectrosc. Relat. Phenom. (http://dx.doi.org/10.1016/j.elspec.2016.09.006, 2016)

- M. Malvestuto, A. Caretta, B. Casarin, **F. Cilento**, M. Dell'Angela, D. Fausti, R. Calarco, B. J. Kooi, E. Varesi, J. Robertson, and F. Parmigiani
  Ultrafast Ge-Te bond dynamics in a phase-change superlattice
  Phys. Rev. B **94**, 094310 (2016)

- A. Sterzi, A. Crepaldi, **F. Cilento**, G. Manzoni, E. Frantzeskakis, M. Zacchigna, E. van Heumen, Y. K. Huang, M. S. Golden, and F. Parmigiani
  SmB_6 electron-phonon coupling constant from time- and angle-resolved photoelectron spectroscopy
  Phys. Rev. B **94**, 081111(R) (2016)

- **F. Cilento**, A. Crepaldi, G. Manzoni, A. Sterzi, M. Zacchigna, Ph. Bugnon, H. Berger, and F. Parmigiani
  Advancing non-equilibrium ARPES experiments by a 9.3 eV coherent ultrafast photon source
  J. Electr. Spectrosc. Relat. Phenom. **207**, 7 (2016)

- G. Manzoni, A. Sterzi, A. Crepaldi, M. Diego, **F. Cilento**, M. Zacchigna, Ph. Bugnon, H. Berger, A. Magrez, M. Grioni, and F. Parmigiani
  Ultrafast Optical Control of the Electronic Properties of $ZrTe_5$
  Phys. Rev. Lett. **115**, 207402 (2015)

- S. Ulstrup, J. C. Johannsen, **F. Cilento**, A. Crepaldi, J. A. Miwa, M. Zacchigna, C. Cacho, R. T. Chapman, E. Springate, F. Fromm, C. Raidel, T. Seyller, P. D. C. King, F. Parmigiani, M. Grioni, and P. Hofmann
  Ramifications of Optical Pumping on the Interpretation of Time-Resolved Photoemission Experiments on Graphene
  J. Electron. Spectrosc. Relat. Phenom. **200**, 340 (2015)

- J. C. Johannsen, G. Autes, A. Crepaldi, S. Moser, B. Casarin, **F. Cilento**, M. Zacchigna, H. Berger, A. Magrez, Ph. Bugnon, J. Avila, M. C. Asensio, F. Parmigiani, O. V. Yazyev, and M. Grioni
  Engineering the Topological Surface States in the $(Sb_2)_m$–Sb_2Te_3 Superlattice Series
  Phys. Rev. B **91**, 201101(R) (2015)

- S. Ulstrup, J. C. Johannsen, A. Crepaldi, **F. Cilento**, M. Zacchigna, C. Cacho, R. T. Chapman, E. Springate, F. Fromm, C. Raidel, T. Seyller, F. Parmigiani, M. Grioni, and P. Hofmann
  Ultrafast Electron Dynamics in Epitaxial Graphene Investigated with Time- and Angle-Resolved Photoemission Spectroscopy
  J. Phys.: Condens. Matter **27**, 164206 (2015)

- C. Cacho, A. Crepaldi, M. Battiato, J. Braun, **F. Cilento**, M. Zacchigna, M. C. Richter, O. Heckmann, E. Springate, Y. Liu, S. S. Dhesi, H. Berger, Ph. Bugnon, K. Held, M. Grioni, H. Ebert, K. Hricovini, J. Minár, and F. Parmigiani
  Momentum-Resolved Spin Dynamics of Bulk and Surface Excited States in the Topological Insulator Bi_2Se_3
  Phys. Rev. Lett. **114**, 097401 (2015) and http://arxiv.org/abs/1409.5018

- J. C. Johannsen, S. Ulstrup, A. Crepaldi, **F. Cilento**, M. Zacchigna, J. A. Miwa, C. Cacho, R. T. Chapman, E. Springate, F. Fromm, C. Raidel, T. Seyller, P. D. C. King, F. Parmigiani, M. Grioni, and P. Hofmann
  Tunable Carrier Multiplication and Cooling in Graphene
  Nano Letters **15**, 326 (2015)

- F. Novelli, G. De Filippis, V. Cataudella, M. Esposito, I. Vergara, **F. Cilento**, E. Sindici, A. Amaricci, C. Giannetti, D. Prabhakaran, S. Wall, A. Perucchi, S. Dal Conte, G. Cerullo, M. Capone, A. Mishchenko, M. Grüninger, N. Nagaosa, F. Parmigiani, and D. Fausti
  Witnessing the formation and relaxation of dressed quasi-particles in a strongly correlated electron system
  Nature Communications **5**, 5112 (2014) and http://arxiv.org/abs/1403.1704

- **F. Cilento**, S. Dal Conte, G. Coslovich, S. Peli, N. Nembrini, S. Mor, F. Banfi, G. Ferrini, H. Eisaki, M. K. Chan, C. J. Dorow, M. J. Veit, M. Greven, D. van der Marel, R. Comin, A. Damascelli, L. Rettig, U. Bovensiepen, M. Capone, C. Giannetti, and F. Parmigiani
  Photo-enhanced antinodal conductivity in the pseudogap state of high-T_c cuprates
  Nature Communications **5**, 4353 (2014) and http://arxiv.org/abs/1405.5462

- S. Ulstrup, J. C. Johannsen, **F. Cilento**, J. A. Miwa, A. Crepaldi, M. Zacchigna, C. Cacho, R. Chapman, E. Springate, S. Mammadov, F. Fromm, C. Raidel, T. Seyller, F. Parmigiani, M. Grioni, P. D. C. King, and P. Hofmann
  Ultrafast Dynamics of Massive Dirac Fermions in Bilayer Graphene
  Phys. Rev. Lett. **112**, 257401 (2014) and http://arxiv.org/abs/1403.0122
  This paper was selected for a Viewpoint: Tracking Electron Movements in Bilayer Graphene http://physics.aps.org/articles/v7/68

- M. Esposito, F. Benatti, R. Floreanini, S. Olivares, F. Randi, K. Titimbo, M. Pividori, F. Novelli, **F. Cilento**, F. Parmigiani, and D. Fausti
  Pulsed homodyne Gaussian quantum tomography with low detection efficiency
  New J. Phys. **16**, 043004 (2014) and http://arxiv.org/abs/1301.2471

- A. Crepaldi, **F. Cilento**, M. Zacchigna, M. Zonno, J.C. Johannsen, C. Tournier-Colletta, L. Moreschini, I. Vobornik, F. Bondino, E. Magnano, H. Berger, A. Magrez, Ph. Bugnon, G. Autès, O.V. Yazyev, M. Grioni, and F. Parmigiani
  Momentum and photon energy dependence of the circular dichroic photoemission in the bulk Rashba semiconductors BiTe X (X= I, Br, Cl)
  Phys. Rev. B **89**, 125408 (2014) and http://arxiv.org/abs/1409.5025

- **F. Cilento**, S. Dal Conte, G. Coslovich, F. Banfi, G. Ferrini, H. Eisaki, M. Greven, A. Damascelli, D. van der Marel, F. Parmigiani, and C. Giannetti
  In search for the pairing glue in cuprates by non-equilibrium optical spectroscopy
  J. Phys.: Conf. Ser. **449**, 012003 (2013) and http://arxiv.org/abs/1303.2893
  Invited manuscript for the proceedings of the 10th International Conference on "Materials and Mechanisms of Superconductivity" (M2S-X), Washington, 2012.

- A. Crepaldi, **F. Cilento**, B. Ressel, C. Cacho, J. C. Johannsen, M. Zacchigna, H. Berger, Ph. Bugnon, C. Grazioli, I. C. E. Turcu, E. Springate, K. Kern, M. Grioni, and F. Parmigiani
  Evidence of reduced surface electron-phonon scattering in the conduction band of Bi_2Se_3 by non-equilibrium ARPES
  Phys. Rev. B **88**, 121404(R) (2013) and http://arxiv.org/abs/1310.4279

- J. C. Johannsen, S. Ulstrup, **F. Cilento**, A. Crepaldi, M. Zacchigna, C. Cacho, I. C. E. Turcu, E. Springate, F. Fromm, C. Raidel, T. Seyller, F. Parmigiani, M. Grioni, and P. Hofmann
  Direct View of Hot Carrier Dynamics in Graphene
  Phys. Rev. Lett. **111**, 027403 (2013) and http://arxiv.org/abs/1304.2615

- G. Coslovich, C. Giannetti, **F. Cilento**, S. Dal Conte, T. Abebaw, D. Bossini, G. Ferrini, H. Eisaki, M. Greven, A. Damascelli, and F. Parmigiani
  Competition Between the Pseudogap and Superconducting States of $Bi_2Sr_2Ca_{0.92}Y_{0.08}Cu_2O_{8+\delta}$ Single Crystals Revealed by Ultrafast Broadband Optical Reflectivity
  Phys. Rev. Lett. **110**, 107003 (2013) and http://arxiv.org/abs/1302.0248

- A. Crepaldi, B. Ressel, **F. Cilento**, M. Zacchigna, C. Grazioli, H. Berger, Ph. Bugnon, K. Kern, M. Grioni, and F. Parmigiani
  Ultrafast photodoping and effective Fermi-Dirac distribution of the Dirac particles in Bi_2Se_3
  Phys. Rev. B **86**, 205133 (2012) and http://arxiv.org/abs/1212.3494

- F. Novelli, D. Fausti, J. Reul, **F. Cilento**, P. H. M. van Loosdrecht, A. A. Nugroho, T. T. M. Palstra, M. Gruninger, and F. Parmigiani
  Ultrafast optical spectroscopy of the lowest energy excitations in the Mott insulator compound YVO_3: Evidence for Hubbard-type excitons
  Phys. Rev. B **86**, 165135 (2012) and http://arxiv.org/abs/1205.4609

- S. Dal Conte, C. Giannetti, G. Coslovich, **F. Cilento**, D. Bossini, T. Abebaw, F. Banfi, G. Ferrini, H. Eisaki, M. Greven, A. Damascelli, D. van der Marel, and F. Parmigiani
  Disentangling the Electronic and Phononic Glue in a High-Tc Superconductor
  Science **335**, 1600 (2012) and http://arxiv.org/abs/1203.0588

- C. Giannetti, **F. Cilento**, S. Dal Conte, G. Coslovich, G. Ferrini, H. Molegraaf, M. Raichle, R. Liang, H. Eisaki, M. Greven, A. Damascelli, D. van der Marel, and F. Parmigiani
  Revealing the high-energy electronic excitations underlying the onset of high-temperature superconductivity in cuprates
  Nature Communications **2**, 353 (2011) and http://arxiv.org/abs/1105.2508

- G. Coslovich, C. Giannetti, **F. Cilento**, S. Dal Conte, G. Ferrini, P. Galinetto, M. Greven, H. Eisaki, M. Raichle, R. Liang, A. Damascelli, and F. Parmigiani
  Evidence for a photoinduced nonthermal superconducting-to-normal-state phase transition in overdoped $Bi_2Sr_2Ca_{0.92}Y_{0.08}Cu_2O_{8+\delta}$ by ultrashort laser pulses
  Phys. Rev. B **83**, 052907 (2011) and http://arxiv.org/abs/1005.4320

- G. Galimberti, S. Pagliara, S. Ponzoni, S. Dal Conte, **F. Cilento**, G. Ferrini, S. Hofmann, M. Arshad, C. Cepek, and F. Parmigiani
  The photoinduced charge transfer mechanism in aligned and unaligned carbon nanotubes
  Carbon **49**, 5246 (2011)

- **F. Cilento**, C. Giannetti, G. Ferrini, S. Dal Conte, T. Sala, G. Coslovich, M. Rini, A. Cavalleri, and F. Parmigiani
  Ultrafast insulator-to-metal phase transition as a switch to measure the spectrogram of a supercontinuum light pulse
  Appl. Phys. Lett. **96**, 021102 (2010) and http://arxiv.org/abs/0910.3785

- G. Coslovich, C. Giannetti, **F. Cilento**, G. Ferrini, and F. Parmigiani
  Quasi-particles dynamics in underdoped Bi2212 under strong optical perturbation
  AIP Conference Proceedings **1162**, pp. 177-185 (2009)

- C. Giannetti, G. Coslovich, **F. Cilento**, G. Ferrini, H. Eisaki, N. Kaneko, M. Greven, and F. Parmigiani
  Discontinuity of the ultrafast electronic response of underdoped superconducting $Bi_2Sr_2CaCu_2O_{8+\delta}$ strongly excited by ultrashort light pulses
  Phys. Rev. B **79**, 224502 (2009) and http://arxiv.org/abs/0804.4822
  This paper was selected for the Virtual Journal of Applications of Superconductivity.
  This paper was selected for the Virtual Journal of Ultrafast Science.

- C. Giannetti, B. Revaz, F. Banfi, M. Montagnese, G. Ferrini, **F. Cilento**, S. Maccalli, P. Vavassori, G. Oliviero, E. Bontempi, L.E. Depero, V. Metlushko, and F. Parmigiani
  Thermo-mechanical behavior of surface acoustic waves in ordered arrays of nanodisks studied by near infrared pump-probe diffraction experiments
  Phys. Rev. B **76**, 125413 (2007) and http://arxiv.org/abs/cond-mat/0701666
  This paper was selected for the Virtual Journal of Nanoscale Science & Technology.
  This paper was selected for the Virtual Journal of Ultrafast Science.

Federico Cilento
Last Update: Trieste, 09-06-2017

CURRICULUM VITAE

PERSONAL DATA

Name, Surname	Albano Cossaro
Birth Place, Date	Udine, 1974 May the 12th
e-mail	

EDUCATION AND WORKING EXPERIENCES

2011 –TODAY	Principal Investigator of the FIRB 2010 project ANCHOR. Responsible of the ANCHOR Laboratory at the CNR-IOM
2002 –TODAY	Development scientist at IOM Institute of CNR, Trieste, Italy
2005	PhD in Physics at University of Trieste
2001-2002	Information Technology Consultant at P@rtners, Milano, Italy
2001	Information Technology Consultant at Accenture, Milano
1998	Degree in Physics (110/110 cum laude) at University of Trieste, Italy

SCIENTIFIC INTEREST AND ACTIVITIES

I'm beamline scientist at the ALOISA beamline of the Elettra Synchrothron in Trieste, Italy.
My research activity is mainly dedicated to the study of self assembly process of small molecules on metal and semiconductor surfaces. In particular, the attention is focused on the chemical, morphological and structural properties of the Self Assembled Monolayers (SAMs), as the result of the interplay between molecule-molecule and molecule-substrate interactions. Among the scientific results we obtained in this field, in collaboration with the group of prof. Giacinto Scoles, in 2008 we have described the S-Au interface in the Alkanethiols SAMs grown on gold, which has obtained a large interest from the scientific community (Science 2008). We have then contributed to reveal the chemistry of the assembly of amino-acids (PNAS 2007, ACS NANO 2010), revealing that the tendency the molecules have to form zwitterions drive the formation of long range ordered structures on the surfaces.
Since 2011 I coordinate the ANCHOR research project, financed by Italian Ministry of Research (MIUR) in 2011 with 683 KEuros. The project aims at characterizing the interaction on surfaces between amino-terminated molecules and molecules with other functional groups (carboxylic, boronic). The research combines the X-Ray based spectroscopy with STM techniques in order to give a complete description of the systems. We have demonstrated the possibility of exploiting the amino-carboxylic interaction to anchor molecules ontop of amino-functionalized surfaces (Journal of Physical Chemistry Letters 2011) and to control the morphology of the resulting organic architecture (PCCP 2012, Invited paper). Within this project, I designed and setup a new experimental chamber which has been set up on the brenchline of the ALOISA beamline. The end-station is operative since 2013 and allows to perform X-Ray spectroscopy on in-situ grown systems, both with Synchrothron light and Laboratory photons sources. In 2014 the first experiments from molecules in gas phase have

been successfully performed as well.
At the ALOISA beamline I'm in charge of the development of the acquisition program for the three end-stations and I give scientific and technical support to the external users in performing the experiments.
I'm referee for the following journals: Journal of Physical Chemistry (ACS), Langmuir (ACS), Physical Review B (APS), Surface Science (Elsevier), Chemical Physics Letters (Elsevier), Journal of Nanotechnology (Beilstein).
I'm an external referee for the National Research Council of Romanian Government, for the Swiss National Science Foundation and for the italian Ministry of Research (MIUR).
In 2013 I obtained the qualification to Associate Professor (Abilitazione Nazionale, 02/B1).
I'm co-author of more than 70 publications in peer-reviewed Journals. My h-index is 25 (Scholar Google).

CONFERENCES AS INVITED SPEAKER

2010 Nanobiotechnology Workshop at JRC Ispra, Ispra, Italy

2012 XCVIII SIF National Congress, Neaples, Italy

2015 EMN EAST MEETING 2015, BEIJING, CHINA

2015 ECASIA'15 International Conference, Granada, Spain

PUBLICATIONS

77. Alippi P, Lanzilotto V, Paoletti AM, Mattioli G, Zanotti G, Pennesi G, Filippone F, Cossaro A, Verdini A, Morgante A, Bonapasta AA (2017). A Ru-Ru pair housed in ruthenium phthalocyanine: the role of a "cage" architecture in the molecule coupling with the Ag(111) surface. **PHYSICAL CHEMISTRY CHEMICAL PHYSICS**, vol. 19, p. 1449-1457, ISSN: 1463-9076, doi: 10.1039/c6cp06094c

76. Cvetko D, Fratesi G, Kladnik G, Cossaro A, Brivio GP, Venkataraman L, Morgante A (2016). Ultrafast electron injection into photo-excited organic molecules. **PHYSICAL CHEMISTRY CHEMICAL PHYSICS**, ISSN: 1463-9076, doi: 10.1039/c6cp04099c

75. Di Giovannantonio M, Tomellini M, Lipton-Duffin J, Galeotti G, Elrahimi M, Cossaro A, Verdini A, Kharche N, Meunier V, Vasseur G, Fagot-Revurat Y, Perepichka DF, Rosei F, Contini G (2016). Mechanistic Picture and Kinetic Analysis of Surface-Confined Ullmann Polymerization. **JOURNAL OF THE AMERICAN CHEMICAL SOCIETY**, vol. 138, p. 16696-16702, ISSN: 0002-7863, doi: 10.1021/jacs.6b09728

74. Wardrip A G, Mazaheripour A, Hüsken N, Jocson JM, Bartlett A, Lopez R C, Frey N, Markegard C B, Kladnik G, Cossaro A, Floreano L, Verdini A, Burke A M, Dickson M N, Kymissis I, Cvetko D, Morgante A, Sharifzadeh S, Nguyen H D, Gorodetsky A A (2016). Length-Independent Charge Transport in Chimeric Molecular Wires. **ANGEWANDTE CHEMIE. INTERNATIONAL EDITION**, ISSN: 1433-7851, doi: 10.1002/ange.201605411

73. Dri C, Fronzoni G, Balducci G, Furlan S, Stener M, Feng Z, Comelli G, Castellarin-Cudia C, Cvetko D, Kladnik G, Verdini A, Floreano L, COSSARO A. (2016). Chemistry of the Methylamine Termination at a Gold Surface: From Autorecognition to Condensation. **JOURNAL OF PHYSICAL CHEMISTRY C**, vol. 120; p. 6104-6115, ISSN: 1932-7447, doi: 10.1021/acs.jpcc.6b00604

72. Borghetti P, de Oteyza D G, Rogero C, Goiri E, Verdini A, COSSARO A., Floreano L, Ortega J E (2016). Molecular-Level Realignment in Donor-Acceptor Bilayer Blends on Metals. **JOURNAL OF PHYSICAL CHEMISTRY. C**, vol. 120; p. 5997-6005, ISSN: 1932-7447, doi: 10.1021/acs.jpcc.5b11373

71. de Oteyza D, Garcia-Lastra J M, Toma Francesca M., Borghetti P, Foreano L, Verdini A, COSSARO A., Pho

Toan V, Wudl F, Enrique Ortega J (2016). Decacyclene Trianhydride at Functional Interfaces: An Ideal Electron Acceptor Material for Organic Electronics. **THE JOURNAL OF PHYSICAL CHEMISTRY LETTERS**, vol. 7; p. 90-95, ISSN: 1948-7185, doi: 10.1021/acs.jpclett.5b02562

70. Kladnik G, Puppin M, Coreno M, de Simone M, Floreano L, Verdini A, Morgante A, Cvetko D, COSSARO A. (2016). Ultrafast Charge Transfer Pathways Through A Prototype Amino-Carboxylic Molecular Junction. **NANO LETTERS**, vol. 16; p. 1955-1959, ISSN: 1530-6984, doi: 10.1021/acs.nanolett.5b05231

69. Adak O, Kladnik G, Bavdek G, Cossaro A, Morgante A, Cvetko D, Venkataraman L (2015). Ultrafast Bidirectional Charge Transport and Electron Decoherence at Molecule/Surface Interfaces: A Comparison of Gold, Graphene, and Graphene Nanoribbon Surfaces. **NANO LETTERS**, vol. 15, p. 8316-8321, ISSN: 1530-6984, doi: 10.1021/acs.nanolett.5b03962

68. Feng Z, Velari S, COSSARO A., Castellarin-Cudia C, Verdini A, Vesselli E, Dri C, Peressi M, De Vita A, Comelli G (2015). Trapping of Charged Gold Adatoms by Dimethyl Sulfoxide on a Gold Surface. **ACS NANO**, vol. 9; p. 8697-8709, ISSN: 1936-0851, doi: 10.1021/acsnano.5b02284

67. Salomon E, Beato-Medina D, Verdini A, COSSARO A., Cvetko D, Kladnik G, Floreano L, Angot T (2015). Correlation between Charge Transfer and Adsorption Site in CoPc Over layers Adsorbed on Ag(100). **JOURNAL OF PHYSICAL CHEMISTRY C**, vol. 119; p. 23422-23429, ISSN: 1932-7447, doi: 10.1021/acs.jpcc.5b05999

66. Mangione G, Pandolfo L, Sambi M, Ligorio G, Nardi MV, Cossaro A., Floreano L, Casarin M. Ligand-Field Strength and Symmetry-Restricted Covalency in Cu-II Complexes - a Near-Edge X-ray Absorption Fine Structure Spectroscopy and Time-Dependent DFT Study. **EUROPEAN JOURNAL OF INORGANIC CHEMISTRY**;2015, p. 2707-2713, ISSN: 1434-1948, doi: 10.1002/ejic.201500222

65. Olivieri G, Cossaro A., Capria E, Benevoli L, Coreno M, De Simone M, Prince KC, Kladnik G, Cvetko D, Fraboni B, Morgante A, Floreano L, Fraleoni-Morgera A. Intermolecular Hydrogen Bonding and Molecular Orbital Distortion in 4-Hydroxycyanobenzene Investigated by X-ray Spectroscopy. **JOURNAL OF PHYSICAL CHEMISTRY. C, NANOMATERIALS AND INTERFACES**, 2015, vol. 119; p. 121-129, ISSN: 1932-7447, doi: 10.1021/jp5100878

64. Balducci G, Romeo M, Stener M, Fronzoni G, Cvetko D, Cossaro A., Dell'Angela M, Kladnik G, Venkataraman L, Morgante A (2015). Computational Study of Amino Mediated Molecular Interaction Evidenced in N 1s NEXAFS: 1,4-Diaminobenzene on Au (111). **JOURNAL OF PHYSICAL CHEMISTRY. C, NANOMATERIALS AND INTERFACES**, 2015, vol. 119; p. 1988-1995, ISSN: 1932-7447, doi: 10.1021/jp512146t

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Invited Paper

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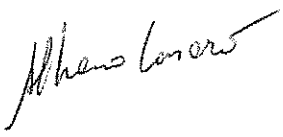

Europass Curriculum Vitae

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Principal subjects/Occupational skills covered	Time-resolved non linear spectroscopy (Transient Grating), pulsed and continuum laser source employment, confined liquids dynamics
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Principal subjects/Occupational skills covered	State of matter: low temperature physics, quantum electronics, optics, spectroscopic techniques
Name and type of organization providing education and training	Università degli studi di Firenze, thesis performed at the European Laboratory for non Linear Spectroscopy (LENS), via N.Carrara 1, 50019 Sesto Fiorentino (FI)

Research Activity

My research activity during the PhD at the European Laboratory for non Linear Spectroscopy (LENS) was devoted to the characterization of acoustic, structural and thermal properties of simple and confined liquids by means of laser-based non linear spectroscopy (see publications 30, 33, 34, 35, 36, 37, 38, 39, 40). After this period, I moved to the Elettra synchrotron Trieste, where I was appointed responsible for the TIMER Laser lab. My main research activity was focused to the extension of a laser-based four wave mixing technique towards the extreme ultraviolet region, developing new optical setups for applying such a technique to free electron lasers (see 31-32), but also extending the actual limits with classical lasers, showing applications to the electronic and acoustic behaviour of liquids and solids (see 14). Following these results, I participated to the planning, the construction, the test and, finally, to the first experiments of a new beamline based on the previous technique (see 1, 2, 5, 8, 12, 15), and also to experiments on warm dense matter based on lasers and free electron lasers (see 3, 13, 16, 26, 28, 29). These experiments were also used for characterization of the FERMI parameters and test its current performances (6, 19, 25, 27). I worked on experiments on liquids with impulsive stimulated Raman scattering (see 20) and continuum Raman scattering (7, 9, 21, 22, 23, 24). Moreover, I worked in synergy with the electronic workshop for the characterization of new electronic devices based on quantum wells (see 10, 11, 18).

After this experience, I moved to the University of Nova Gorica, as responsible of the new high harmonic generation laser based laboratory for the studies of properties of light and application to the gas phase. At the same time, I was also appointed as beam line scientist for the Low Density Matter beamline on a research program devoted to electron photo-emission spectroscopy, ion time of flight and mass spectroscopy on He nanodroplets and sequential ionization of noble gases. I participated to the first and highly challenging experiments on coherent control of light from free electron laser radiation (see 4).

Presently, I am the scientific responsible of the SPRINT lab at CNR-IOM for generation of high harmonics, ultrafast spectroscopy and for time resolved non linear experiments. The research activities range from angle resolved photo-emission spectroscopy, to spin spectroscopy and to generation and detection of spin waves by using four wave mixing techniques on magnetic materials.