

Curriculum vitae

Alessio Settineri Messina 22/03/2019 Alesso Seltiveri

PERSONAL INFORMATION

Alessio Settineri



Sex Male | Date of birth.

Nationality ..

POSITION

Physics PhD Student at Messina's University (Supervisor: Prof. S. Savasta)

EDUCATION AND TRAINING

2007-2012

High School Diploma 100/100

Archimede Scientific High School, Messina (Italy)

2012-2015

Three-year Degree in Physics 107/110

Messina's University, Messina (Italy)

Thesis: Inclusion Complex for the Drug Delivery: Stability and thermic behaviour.

Relator: Prof. Valentina Venuti

2015-2017

Master Degree in Physics 110L/110

Messina's University, Messina (Italy)

Thesis: Characterization of the plasmonic behaviour of nano-structured gold films

2018-Present

PhD in Physics

Università di Messina

PhD in Quantum Physics: Quantum Optics and Open quantum systems in the Ultra-Strong

coupling regime

WORK EXPERIENCE

03/11/2014-18/12/2014

University Internship

IR-Raman Spectroscopy

02/11/2016-Present

University Tutor

■ From 2 to 24 November 2016 Didactic Tutoring at Messina's University: Preparation of the students

for the tests.

■ From 11 May to 30 November 2017 Specialistic Tutoring at Messina's

University: Laboratory Assistant

20/01/2018-20/02/2018

Research Student at RIKEN (Wako)

Study of new approaches to describe the dynamics of Open Hybrid Quantum systems in the ultra

strong coupling regime.

Development of a Dressed Master equation Approach for the description of Open Hybrid Quantum

Systems

29/08/2018-29/09/2018

Research Student at RIKEN (Wako)

Alessio Settineri

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Curriculum vitae

Messina 22/03/2019

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Study of new approaches to describe the dynamics of Open Hybrid Quantum systems in the ultra strong coupling regime.

■ Development of a Quantum Trajectory Method in the ultra strong coupling regime

PERSONAL	SKILLS	
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Mother tongue(s)

Italian

Foreign language(s)

English German

UNDERSTANDING		SPEAKING		SPEAKING		WRITING	
Listening	Reading	Spoken interaction	Spoken production				
B2	B2	B 1	B1	B1			
A1	A1	A1	A1	A1			
A1	A1	A1	A 1	A1			

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user Common European Framework of Reference for Languages

Communication skills

- Ability to relate to work and study colleagues and teamwork skills, quality gained during years of study, university labs, and internship periods.
- Ability to expose concepts and personal knowledge learned during: lectures, presentations in Italian and English and conferences.

Organisational / managerial skills

- Organizational, planning and co-ordination skills.
- Good level of flexibility and adaptation to different situations, aptitude to make timely decisions and consistent with the goals set and to tackle and resolve stress situation.

Job-related skills

- Experimental and theoretical knowledge on the study of material properties through Spectroscopic
 Techniques related to the experience gained during laboratory activities and university studies
- Private lessons for high school students in subjects of a predominantly scientific nature such as Mathematics, Physics, Chemistry.

Digital skills

SELF-ASSESSMENT							
Information processing	Communication	Content creation	Safety	Problem solving			
Proficient user	Proficient user	Independent user	Independent user				

Digital skills - Self-assessment grid

- Excellent mastery of Windows and Linux operating systems and their applications
- Excellent knowledge in using data analysis software (Origin, PeakFit)
- Good usage of Graphic Software and 3D modelling (Adobe Photoshop, Rhinoceros, Keyshot and Designer)
- LANGUAGE PROGRAMMING: Python, Mathematica, C++, Fortran
- Familiarity with Android mobile devices (smartphones and tablets) INSTRUMENTS
- Excellent knowledge of the Microsoft Office package, especially Word, Excel and PowerPoint
- Experience navigating the Internet using Different browsers (Internet Explorer, Firefox, Chrome)
- Excellent knowledge of e-mail clients (Windows Live Mail, Outlook Express)

Driving licence

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ADDITIONAL INFORMATION

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Curriculum vitae

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Messina 22/03/2019

Alessio Settineri

Publications and Conferences

- Publication (in Preparation): "Conversion of Mechanical Thermal Noise into photon pairs"
 Settineri Alessio, Macrì Vincenzo, Savasta Salvatore
- Publication (Currently Submitted): "Quantum Coherence in Hybrid quantum Systems: the influence of Temperature" Alessio Settineri, Vincenzo Macrì, Alessandro Ridolfo, Omar Di Stefano, Anton Frisk Kockum, Franco Nori, Salvatore Savasta
- Publication (Currently Submitted): "Interaction of Mechanical Oscillators mediated by the exchange of Virtual photon Pairs" Omar Di Stefano, Alessio Settineri, Vincenzo Macrì, Alessandro Ridolfo, Roberto Stassi, Anton Frisk Kockum, Salvatore Savasta, Franco Nori
- Presentation Poster: "Plasmon vortices around isolated nanoholes cratered on a gold film: polarization dependent coupling of SPPs and excitation beam" Plasmonica 2017
- Presentation Poster: "Interaction of Mechanical Oscillators Mediated by the Exchange of Virtual Photons " WQED 2018

Specialization School

- From 19 to 23 September 2016 National Specialization School "Scienza e Beni Culturali: Dall'Analisi non invasiva alla ricostruzione 3D (Cultural Heritage Science: Non invasive analysis for the 3D reconstruction)"
- From 24 to 29 July 2017 School of Excellence "Modelli di calcolo ispirati ai meccanismi di funzionamento del cervello (Brain inspired computing)". Project Manager prof. Giovanni Finocchio
- From 4 June to 8 June 2018 Workshop on Waveguide QED

Seminars

- 30 May 2013 Appunti di Fisica & Young Minds: 7th Day with the Theoretical Physics
- 26 March 2013 Percorso di eccellenza in Fisica PES (Physics excellence program): passing course "Disg 81/08 e problematiche sulla sicurezza" (Disg 81/08 and security issues)
- From 13 to 15 October 2015 International Symposium. Lepton and Hadron Physics at Meson-Factories
- From 6 to 8 November 2013 International Symposium: Entrance Channel Effect on the reaction Mechanism in heavy ion collisions
- 22 June 2016 Winner of a scolarship for a Language course at the linguistic center (CLAM) of Messina
- 13 May 2016 Symposium on Nanofabrication
- 26 May 2016 9th Day with the Theoretical Physics.
- 16 July 2018 Nanoparticles Engeneering by Pulsed Laser Ablation: concepts and applications

Attachments

copies of all attestations are available upon request

Autorization

I authorize the processing of my personal data contained in my curriculum vitae in art. 13 of Legislative Decree 196/2003