

Scientific Curriculum Vitae - Emanuele Panizon

Education

2016-current

Post-Doc position in "Theory and Simulation of Nanotribology"
at SISSA, Trieste
Supervisor Prof. Erio Tosatti

2012-2015

Phd in Physics
at the University of Genova,
thesis:
"Equilibrium properties of nanoalloys"
Supervisor Prof. Riccardo Ferrando

2010-2012

Master Degree in Condensed Matter, 110/110 cum Laude
("Laurea Magistrale in Microfisica e Struttura della materia")
at the University of Trieste,
thesis:
"Structural study of small clusters of transitional metals"
Mentors Prof. Maria Peressi, Prof. Alfonso Baldereschi

2007-2010

Bachelor Degree in Physics, 110/110 cum laude
("Laurea Triennale in Fisica")
at the University of Trieste,
thesis:
"Numerical simulation of a mesoscopic model of biomembrane"
Mentor Prof. Giorgio Pastore

2002-2007

Liceo Scientifico "G. Oberdan", Trieste
Secondary School Certificate, 100/100
("Diploma di maturità scientifica, sperimentazione PNI")

Awards and Grants

2011

"Giulio Brautti" Merit Award for the Bachelor Degree in Physics

2010-2011

"Luciano Fonda" Annual merit-based Grant in support of the
Master Degree in Physics,
Collegio Universitario per le Scienze "Luciano Fonda"

2007-2010

"Luciano Fonda" Annual merit-based Grant in support of the
Bachelor Degree in Physics,
Collegio Universitario per le Scienze "Luciano Fonda"

Musical Education

2011

Diploma in Cello

(Master Degree equivalent)

Conservatorio "Tartini" di Trieste

Publications

- "Analytic understanding and control of dynamical friction"

E Panizon, GE Santoro, E Tosatti, G Riva, N Manini

Physical Review B, accepted

- "Friction anomalies at first-order transition spinodals: 1T-TaS 2"

E Panizon, T Marx, D Dietzel, F Pellegrini, GE Santoro, A Schirmeisen, E Tosatti

New Journal of Physics, accepted

- "Phase Separation in AgCu and AgNi Core-Shell Icosahedral Nanoparticles: A Harmonic Thermodynamics Study"

D Bonventre, E Panizon, R Ferrando

Particle & Particle Systems Characterization

DOI: 10.1002/ppsc.201700425

- "Velocity dependence of sliding friction on a crystalline surface"

C Apostoli, G Giusti, J Ciccoianni, G Riva, R Capozza, RL Woulaché, A Vanossi, E Panizon
and N Manini

Beilstein Journal of Nanotechnology 8, 2186

DOI: 10.3762/bjnano.8.218

- "Ballistic thermophoresis of adsorbates on free-standing graphene"
E Panizon, R Guerra, E Tosatti
Proceedings of the National Academy of Sciences 114 (34), E7035-E7044
DOI:10.1073/pnas.1708098114

- "Nanoscale effects on phase separation"
JP Paolmares-Baez, E Panizon, R Ferrando
Nano Letters 17(9), 5394-5401, 2017
DOI:10.1021/acs.nanolett.7b01994

- "Interaction of hydrophobic polymers with model lipid bilayers"
D Bochicchio, E Panizon, L Monticelli and R Ferrando
Scientific Reports 7:6357, 2017
DOI: 10.1038/s41598-017-06668-0

- "Strain-induced restructuring of the surface in core@shell nanoalloys"
E Panizon, R Ferrando
Nanoscale 8 (35) 15911-15919, 2016
DOI: 10.1039/C6NR03560D

- "Structures and segregation patterns of Ag-Cu and Ag-Ni nanoalloys adsorbed on MgO(001)"
D Bochicchio, R Ferrando, E Panizon, G Rossi
Journal of Physics: Condensed Matter 28 (6), 064005, 2016

- "Solid-solid transitions in PdPt nanoalloys"
E Panizon and R Ferrando
Physical Review B 92 (20), 205417, 2015
DOI: 10.1103/PhysRevB.92.205417

- "Calculating the free energy of transfer of small solutes into a model lipid membrane: Comparison between metadynamics and umbrella sampling"
D Bochicchio, E Panizon, R Ferrando, L Monticelli and G Rossi
J. Chem. Phys. 143, 144108, 2015
DOI: 10.1063/1.4932159

- "MARTINI Coarse-Grained Models of Polyethylene and Polypropylene"
E Panizon, D Bochicchio, L Monticelli and G Rossi
Journal of Chemical Physics B, 119 (25), 8209-8216, 2015
DOI: 10.1021/acs.jpcc.5b03611

- "Study of structures and thermodynamics of CuNi nanoalloys using a new DFT-fitted atomistic potential"

E Panizon, JA Olmos-Asar, M Peressi, R Ferrando
Physical Chemistry Chemical Physics, 17, 28068-28075, 2015
DOI: 10.1039/C5CP00215J

- "Preferential faceting of coherent interfaces in binary nanocrystals"
E Panizon, R Ferrando
Physical Review B 90, 201410(R), 2014
DOI: 10.1103/PhysRevB.90.201410

- "Chemical ordering in magic-size Ag-Pd nanoparticles"
D Bochicchio, R Ferrando, R Novakovic, E Panizon, G Rossi
Phys. Chem. Chem. Phys. 16 (48), 26478-26484, 2014
DOI: 10.1039/C4CP02143F

- "Tuning the structure of nanoparticles by small concentrations of impurities"
E Panizon, D Bochicchio, G Rossi, R Ferrando
Chemistry of Materials, 26 (11), pp 3354-3356, 2014
DOI: 10.1021/cm501001f

- "Competition between Icosahedral Motifs in AgCu, AgNi, and AgCo Nanoalloys: A Combined Atomistic-DFT Study"
K Laasonen, E Panizon, D Bochicchio, R Ferrando
The Journal of Physical Chemistry C, 117 (49), 26405-26413, 2013
DOI: 10.1021/jp410379u

Teaching experiences

- Teaching Assistant (Attività Formativa Complementare) - 2017
for Master Degree class "Computational Laboratory"
at the University of Trieste

- Tutor in physics - 2015
for students attending the Bachelor Degree in Biology and Chemistry of Materials
at the University of Genova

- Tutor in physics - 2014
for students attending the Bachelor Degree in Biology and Chemistry
at the University of Genova

- Tutor in mathematics - 2013
for students attending the Bachelor Degree in Informatics

at the University of Genova

- Tutor in physics - 2011-2012
for students attending the Bachelor Degree in Physics
at the University of Trieste

Workshops, Conferences and Seminars

- FisMat 2017
1 October - 6 October 2017, ICTP, Trieste, Italy
(oral contribution)

- Trends in Nanotribology
26 June - 30 June 2017, ICTP, Trieste, Italy
(oral contribution)

- European Materials Society - Spring Meeting
22 May - 24 May 2017, Convention Center, Strasbourg, France
(oral contribution)

- Deutsche Physikalische Gesellschaft - Spring Meeting
19 March - 24 March 2017, Technische Universität, Dresden
(oral contribution)

- International Conference on Multiscale Materials Modeling,
9 October - 14 October 2016, Palais des Congres, Dijon, France
(oral contribution)

- Workshop in Nanocluster Synthesis, Characterization and Applications
Okinawa Institute of Science and Technology Graduate University
16 May - 19 May 2016, Okinawa, Japan
(poster contribution)

- Quantum Espresso Spring School
Department of Chemical Sciences, University of Cordoba
28 September - 2 October 2015, Cordoba, Argentina
(poster contribution)

- Gordon Research Conference - Clusters and Nanostructures
Melia Golf Vichy Catalan Business and Convention Center
5 August - 10 August 2015, Girona, Spain
(poster contribution)

- International Workshop on Biomembranes - From Fundamentals to Applications
CSC - IT Center for Science
19 August - 22 August 2014, Helsinki, Finland
(poster contribution)

- Understanding the interaction of nano-sized synthetic materials with biological membranes
CECAM - EPFL
1 September - 3 September 2014, Lausanne, Switzerland,
(poster contribution)

- Final Conference for Cost Action MP0903
5 April - 9 April 2014, Santa Margherita Ligure, Italy
(oral contribution)

- China-Europe International Workshop on Alloy Nanoparticles (CEIWN13)
Beijing University of Chemical Technology
17 November - 21 November 2013, Beijing, China
(poster contribution)

- Nanoalloys and Biomaterials in Biomedicine and Stem Cell Research
Joint Cost Actions MP0903 and MP1005
7 October - 8 October 2013, Santa Margherita Ligure, Italy
(poster contribution)

- 7th International Conference on Theory of Atomic & Molecular Clusters (TAMC VII)
15 September - 20 September 2013, Birmingham, UK
(poster contribution)

- Nanoalloys as advanced materials: from structures to properties and applications
COST Action MP0903
7 April - 9 April 2013, Domain de Valpre, Lyon, France
(poster contribution)

- International Training School on NanoAlloys (ISNA)
COST Action MP0903
20 May - 26 May 2012, Tirrenia, Pisa
(poster contribution)

- Quantum MonteCarlo methods at work for novel phases of matter
23rd of January - 3rd February 2012
CECAM-sponsored school
ICTP Trieste

Trieste, March 15th 2017



**Richiesta copertura/esenzione assicurativa INAIL per incarichi di attività formativa
complementare**

Dipartimento di FISICA A.A. 2017/2018

Cognome e nome del titolare del contratto PANIZON EMANUELE

Attività conferita AFC LABORATORIA di FISICA COMPUTAZIONALE

L'incarico comporta lo svolgimento di attività rientranti tra quelle previste le attività nell'art.1 del DPR 30.06.1965 n.1124

SI

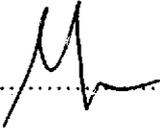
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Indicare le attività svolte individuandole tra quelle descritte nel citato art.1 del DPR 30.06.1965 n.1124 (compreso l'utilizzo non saltuario nell'ambito dell'incarico di apparecchiature informatiche o elettriche):

e **barrare** nell'allegata "Tabella delle sostanze, materie e degli elementi impiegati nelle lavorazioni" il numero che individua le eventuali sostanze utilizzate.

FIRMA 

Visto: Il Direttore: 

Trieste,.....