

PERSONAL INFORMATION

Aldo Eugenio Rossini



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Skype aldug87

Sex Male | Date of birth 5 Oct 1987 | Nationality Italian

POSITION

Ph.D. Student in Engineering

WORK EXPERIENCE

2015–Present

Engineering Doctorate (Eng.D.)

Semiconductor Physics lab., SBAI "La Sapienza" University, Rome (Italy)

Nano-Devices of Graphene

- *ab initio* quantum chemistry methods
- Density Functional Theory, DFT
- Electronic Transport

Supervisor:

- prof. Giuseppe Zollo
- dott. Fabrizio Gala

Assistant Professor

Clinical and Biomedical Engineering, "La Sapienza" University, Roma (Italy)

Physics

- Timing 6 months

Supervisor:

- prof. Andrea Bettucci

Research Engineer

MicroFluidics lab., I.I.T. Center for Life Nanoscience, Rome (Italy)

Peptide Translocation through Biological Nanopores: a molecular dynamics simulation study

- Design of bio-sensors to study the behaviour of folding pathways proteins through nanopores into a cellular membrane
- HPC systems (High Performance Computing) of CINECA
- Timing 12 months

Supervisor:

- dott. Mauro Chinappi

Research Engineer

Cristallization lab., DICMA "La Sapienza" University, Rome (Italy)

Depuration of Olive Oil vegetation waters

- Membrane pilot plant
 - Production of nanoparticles for photocatalysis
 - Timing 12 months
- Supervisor:
- prof. ing. Angelo Chianese
 - dott. Marco Stoller

EDUCATION AND TRAINING

2015–Present	Doctor of Philosophy (Ph.D.), Mathematical Models for Engineering, Electromagnetics and Nanosciences "La Sapienza" University via A. Scarpa, 16, Rome (Italy) www.sbai.uniroma1.it ▪ curriculum: Electromagnetics	EQF level 8
Aug 2016	The 2016 CAMD Summer School on Electronic Structure Theory and Materials Design "DTU" Technical University of Denmark Department of Physics, Copenhagen (Denmark) http://www.fysik.dtu.dk/english/Research/CAMD/Events/Summer-school-2016 ▪ co-sponsored by Psi-k and The Danish Agency for Science, Technology and Innovation	ECTS 2.5
2012–2015	Master of Science (M.Sc.), Engineering of Nanotechnology "La Sapienza" University via Eudossiana, 18, Rome (Italy) http://w3.uniroma1.it/cnis/ ▪ curriculum: Biotechnology	EQF level 7
2007–2011	Bachelor of Science (BSc), Chemical Engineering "La Sapienza" University via Eudossiana, 18, Rome (Italy) http://dicma.ing.uniroma1.it/ ▪ curriculum: Materials	EQF level 6
2001–2006	High school leaving qualification in classical studies "Matteo Tondi" Classic Liceum via Marconi, 71016 San Severo (Italy) http://www.liceorispolitondi.it/scuola.html ▪ curriculum: Physics, Mathematics and Informatics	EQF level 4

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B1	B2	B1	B1	B2
certificato di lingua inglese "la Sapienza"					

certificato di lingua inglese "British Center"

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 Very high competences in relationships with adults and children as volunteer.
Sports and outdoor activities: foot-ball, basket and ski.

Organisational / managerial skills Very high abilities and capabilities for team work through different situations and experiences of study, and, moreover ability to adapt very easily to different situations and teams, thanking to personal high flexibility and hard work resistance.

Job-related skills Chemical Processes
Science of Materials
Membrane and Photocatalysis Processes
Nano-Engineering and Nano-Sciences:

- Nanotechnology
- Nanomaterials
- Nanomedicine

Electronic and Photonic Microscopy
Surfaces and Thin Films Study
Simulations Models and Technics of Quantum and Molecular Dynamics
Macro-Micro Fluidodynamic and Thermodynamics
Micro Electro-Mechanic Systems (MEMS)

Digital competence

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

Digital competences - Self-assessment grid

Operating System:

- Mac-OS, Linux, Windows

Software:

- NAMD - NANoscale Molecular Dynamics
- Quantum ESPRESSO and WanT - WANNier Transport
- SIESTA - Spanish Initiative for Electronic Simulations with Thousands of Atom and TranSIESTA - Transport SIESTA
- GPAW

Program of Visualization:

- VMD - Visual Molecular Dynamics, XCrySDen - Crystalline Structures and Densities, Avogadro, Jmol
- GNUplot, Xmgrace

Programming Language:

- FORTRAN - FORMula TRANslation, Python

Editor:

- VIM, LATEX, Microsoft-Office

Driving licence A, B