



Europass Curriculum Vitae



Personal information

Surname(s) / First name(s)

BAGNIS Diego

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Nationality Italian

Date of birth 12 September 1973

Gender Male

Work experience

Dates **01 February 2007 – until now**

Occupation or position held **Research**

Main activities and responsibilities Research on Organic Solar Cells and Carbon Nanotubes : characterization of organic materials, measurements and development of photoactive material for final devices.

Name and address of employer **Materials Science and Technology - NIPLAB - INSTM UdR Perugia
University of Perugia – Faculty of engineering
Terni - Italy**

Type of business or sector Research, development, projecting for materials characterization.

Dates **01 February 2009 – 31 July 2009**

Occupation or position held **Research**

Main activities and responsibilities Research on Organic Solar Cells: Study on new materials for Organic solar cell's applications. Construction and characterization to final devices. Characterization and construction of OFETs (Organic Field Effect Transistors) for determination of charge carrier's mobility into the organic blend system.

Name and address of employer **Department of Chemistry – Catalysis Center Labs Marks Group
NorthWestern University
Evanston [IL] - USA**

Type of business or sector Research, development, projecting for materials characterization.

Dates	01 June 2006 - 30 November 2006
Occupation or position held	Research
Main activities and responsibilities	Research on OLEDs (Organic Light Emitting Diode): characterization of organic materials, measurements of photoluminescent and electroluminescence effect. Energy transfer in a system PVK/PBD with a different Iridium Complexes.
Name and address of employer	Technical University of Lodz – Department of molecular Physics – Lodz – Poland
Type of business or sector	Research, development, projecting for materials characterization .
Dates	04 September 2004 - 03 May 2005
Occupation or position held	Research and development in a photometric laboratory.
Main activities and responsibilities	Research, projecting and approving national and international headlights.
Name and address of employer	Tri.o.m. spa - Via dei prati 20 - Cambiano (To) ITALY
Type of business or sector	Research and development in new kinds of motor vehicle lighting. The research has had an excellent result in a university environment and the new headlight was commercialized by Piaggio _{spa} in June 2005 around the world. Research on the application of new kind of light source (inorganic LED) on roadlights in collaboration with Osram and HP.
Dates	03 November 2003 - 03 September 2004
Occupation or position held	Project manager
Main activities and responsibilities	Studying, projecting and exhibiting research work on a new motor vehicle headlight to improve road lighting.
Name and address of employer	Research was funded by U.E. and Piemonte Region. Project coordinate by Soc. Sinapsi -Turin- ITALY
Type of business or sector	Research, development, projecting in photometrical measurement.

Education and training

Dates	01 November 2006 – until now
Title of qualification awarded	International PhD in Materials Nanotechnology
Principal subjects/occupational skills covered	Development and characterization of optoelectronic devices based on organic materials. OPVs (Organic PhotoVoltaics).
Name and type of organization providing education and training	Materials Science and Technology NIPLB – INSTM UdR Perugia University of Perugia – Strada Pentima Bassa, 4 05100 Terni – ITALY
Dates	23-27 September 2007 / 22-26 September 2008
Title of qualification awarded	ISOPHOS – International School of Organic Photovoltaics
Principal subjects/occupational skills covered	Recent advances in science and technology of organic and hybrid photovoltaic devices, including small molecules, polymers and dye solar cells as main topics.
Name and type of organization providing education and training	University of Rome “Tor Vergata”, CHOSE c/o Ventotene Island (Lt), ITALY

Dates **February 2006 – November 2006**

Title of qualification awarded **II Level European Master in Polymeric Nanotechnology for mechanical and electronic Industry**

Principal subjects/occupational skills covered
 Deposition Techniques :
 For inorganics material : Thermal evaporation, sputtering, plasma deposition and CVD
 For organics material : spin coating, dip coating, self-assembled monolayers.
 Techniques for surface's analysis : AFM.
 Types of Spectroscopy : IR, Visible and UV
 Photovoltaic cells, organic and inorganic, Oled e Pled principles.

Name and type of organisation providing education and training
 University of Perugia – Terni Faculty of engineering – ITALY
 Technical University of Lodz Department of Molecular Physics Łódź - POLAND

Dates **April 2005**

Title of qualification awarded **Physic Degree**

Topics of thesis
 Study, planning and measurement of a floodlight with contained dimensions for motorcycles of any piston displacement with low-beam and high-beam service with photometric distributions apt to satisfy whichever valid demand accredited to you and for every sense of march.

Name and type of organization providing education and training
 University of Turin Faculty of Mathematics, Physics and Natural Sciences
 Physic Department Turin – ITALY

Dates **01 January 2004 - 26 April 2004**

Title of qualification awarded Certificate of participation to the **courses of Project Management**

Principal subjects/occupational skills covered
 Project Management : project development and resources management.

Name and type of organization providing education and training
 Apro - A.F.P. Alba Barolo sede Castello di Barolo Alba (Cn) ITALY

Dates **July 1993**

Title of qualification awarded **Diploma in Industrial Expert and technician master.**

Principal subjects/occupational skills covered
 Skilled in Electronic Technician: system, installation and energy.

Name and type of organization providing education and training
 Istituto Tecnico Industriale Statale "G. Vallauri" via S.Michele 12045 Fossano (Cn) - ITALY

Mother tongue(s)	Italian				
Self-assessment	Understanding		Speaking		Writing
<i>European level (*)</i>	Listening	Reading	Spoken interaction	Spoken production	
English	B1 Independent user	B1 Independent user	A2 Basic user	A2 Basic user	A2 Basic user

(*) *Common European Framework of Reference for Languages*

Social skills and competences
 Good attitude to work in group, ability in communication and usually to adjust to new conditions, achieved from work experience in research team, sales and human resources and in travel experience.

Organizational skills and competences	Fairly good experience in project management. in the 1996 Summer, I've managed with a friend of mine restaurant and bar in an International tourist village in Rossano Calabro (Cs) Italy.
Technical skills and competences	Skilled in use and manage a Photometric laboratory (I've co-managed the laboratory of TRI.O.M. S.p.a.). Scientific and technological knowledge achieved by Phisic degree and Superior School Diploma. I worked for INSTM (Italian Interuniversity Consortium on Materials Science and Technology) at Laboratory of Molecular Physics of Lodz associate in international net excellent NanoFun-Poly as practice conclusion of European Master in Nanotechnology. Now I'm working at Northwestern University for the University of Perugia as practice conclusion of International PhD.
Computer skills and competences	Very good knowledge of Microsoft operating system and his application (Word, Excel, Power Point); good competence in graphic application (Adobe Photoshop, Adobe Illustrator); finest knowledge of Internet navigation. Expert in creation of Static Web Site using Macromedia Flash; Dreamweaver. Familiarity with 3D modelling and simulating (CATIA V4) and Origin for data elaboration. Background acquired working.
Hobbies	Travel, Motorcycle, Photography, Theatre, Mountain.
Additional information	In 1997-1998 I've done civilian duties (instead of national service) in Human Resources office (for young people) of Bra (CN) – Italy - municipal administration.



- Publications** **“A Novel Anthracene-Core Molecule for the Development of Efficient PCBM-based Solar Cells”**
L. Valentini, D. Bagnis, A. Marrocchi, M. Seri, A. Taticchi, J. M. Kenny.
Chemistry of Materials **20 (2008) 1, 32-34.**
- “Organized fluidic assembly of single-walled carbon nanotubes onto fluorine-doped tin-oxide surface with modified wettability”**
L. Valentini, D. Bagnis, J. M. Kenny.
Carbon **46 (2008) 2, 372-375.**
- “Electrodeposition of carbon nanotube semi-transparent thin films: a facile route for preparing photoactive polymeric hybrid materials”**
Luca Valentini, Diego Bagnis, Rita Cagnoli, Adele Mucci, Luisa Schenetti, Josè Kenny.
Diamond and Related Materials **17 (2008) 7-10, 1573-1576.**
- “Solution casting of transparent and conductive carbon nanotubes/poly(3,4 - ethylenedioxythiophene) – poly(styrenesulfonate) films under a magnetic field”**
Luca Valentini, Marta Cardinali, Diego Bagnis, Jose` Maria Kenny
Carbon **46 (2008) 11, 1513-1517**
- “New Anthracene Containing Phenylene- or Thienylene-Vinyle Copolymers: Synthesis, Characterization, Photophysics and Photovoltaics”**
Panagiotis D. Vellis, John A. Mikroyannidis, Diego Bagnis, Luca Valentini, Josè M. Kenny
Journal of Applied Polymer Science **113 (2008) 2, 1173-1181**
- “Nanofibrillar self-organization of regioregular poly (3-hexylthiophene) and [6,6]-phenyl C₆₁butyric acid methyl ester by dip-coating: a simple method to obtain efficient bulk heterojunction solar cells”**
Luca Valentini, Diego Bagnis, Josè M. Kenny
Nanotechnology **20 (2009) 095603**