Personal information

Surname / First name

Gelmetti, Ilario

Address

Carrer Pere Martell, 13, 10°, 1a 43001, Tarragona, Spain

Telephone

+34 675223010

Personal Email

iochesonome@gmail.com, ilario@sindominio.net

Nationality

Italian

Date of birth

March 1988

Occupational field

Materials chemist; Laboratory technician

PhD. Final evaluation excellent *cum laude* and international mention.

Advanced Characterization and Modelling of Charge Transfer in Perovskite Solar Cells.

Synthesis of organic and inorganic semiconductors; fabrication of perovskite solar cells (clean room, glovebox, spin coating, and thermal evaporation); characterization of materials (FTIR, PL, TEM, XRD, NMR), thin films (UV-vis, TAS, TRPL, AFM, SEM, ESEM-EDX, optical microscopy, profilometer) and complete devices (EIS, TPV, solar simulator, oscilloscope); coding for numerical modeling, data acquisition, and data analysis.

3 months, Barnes Group, Department of Physics, Imperial College London, UK.

Institute of Chemical Research of Catalonia (ICIQ), Tarragona, Spain.

Non-academic grants

Dates

June 2019 - August 2019

Type of grant

Google Summer of Code

Title of the project Supervisors

Load-correlated distributed bandwidth analysis for LibreMesh networks Marcos Gutierrez, Jésica Giudice

Name of organization

Freifunk and LibreMesh.

January 2015 - July 2019

Prof. Emilio José Palomares Gil

Education

Dates

Qualification awarded

Thesis Title

Supervisor

Principal subjects

International Internship Name of organization

Dates

Qualification awarded Name of organization

Thesis Title

Dates

Qualification awarded

September 2010 - October 2013

October 2007 - October 2013

Master Degree in Organic Chemistry. Final evaluation 110/110 cum laude.

Synthesis and Characterization of Chiral Polythiophenes.

Scuola Normale Superiore di Pisa, Italy.

Diploma of Science Class. Final evaluation 70/70.

Thesis Supervisor Dr. Silvia Destri; Prof. Lorenzo Di Bari

Institute for Macromolecular Studies, Consiglio Nazionale delle Ricerche, Milan, Italy.

Department of Chemistry and Industrial Chemistry, University of Pisa, Italy.

Dates

September 2007 – July 2010

Qualification awarded

Name of organization

Thesis Laboratory

Thesis Title

Name of organization

Thesis Supervisor

Bachelor of Science in Chemistry. Final evaluation 110/110 cum laude. Synthesis of Conjugated Polymers and Quantum Dots for Photovoltaics Applications.

Department of Chemistry and Industrial Chemistry, University of Pisa, Italy.

Dates

September 2002 - June 2007

Qualification awarded Name of organization

Secondary school diploma. Final evaluation 100/100.

ITIS G. Ferraris, Verona, Italy.

Dr. Valter Castelvetro

Page 1 / 2 - Curriculum vitæ of Ilario Gelmetti For more information go to http://europass.cedefop.eu.int © European Communities, 2003.

Awards

National Chem. Olympiads

National Physics Olympiads

National Math. Olympiads

Fourth position in ranking of category C, Italian national selections, 2007.

Best experimental solution, Italian national selections, 2007.

Honourable mention, Italian national selections, 2006.

Personal skills

Mother tongue Self-assessment European level(*)

English

Spanish

Catalan

Language certificates

General computer skills and competences

> Coding skills and competences

> Driving license(s)

Volunteering

Personal Interests

Publications

216 (7), 801-807.

Organization Contacts

Department of Physics, Imperial College London (ICL), London, UK. piers.barnes@imperial.ac.uk +44 (0)20 7594 7609

Organization Contacts Institute of Chemical Research of Catalonia (ICIQ), Tarragona, Spain. +34 977 920 245

Italian

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C1	Proficient user	C2	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user
C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user
B2	Independent user	C1	Proficient user	C1	Proficient user	B2	Independent user	B2	Independent user

^(*) Common European Framework of Reference (CEF) level

Certificat de nivell intermedi de català (level B2), Direcció General de Política Lingüística, September 2019

Git version control (advanced); Debian and Arch Linux system administration (advanced); cabled and wireless networks setup and administration using OpenWrt (advanced): LATEX markup (advanced); LibreOffice Writer, Calc and Impress (medium); GIMP and Inkscape drawing (medium); prototyping with Arduino; assembling and repairing PCs and electronic hardware in general.

BASH scripting (medium); coding in Python (medium, e.g. development of PyPV acquisition data software), coding in R (advanced, e.g. development of data processing scripts). coding in Matlab (medium, e.g. contributions to Driftfusion), coding in Lua (medium, e.g. contributions to LibreMesh).

Driving license class B.

Operazione Mato Grosso (2004-2007), eigenLab Pisa and eigenNet wireless community network (2009-2013), Manitese (2013), NinuxVerona wireless community network (founder, 2014), LibreMesh.org modular firmware for community networks (developer and community manager, 2013-present), TGNU Tarragona hacklab (co-founder, 2016-2018).

Renewable energy sources, open source software, computer security, wireless community networks, activism, cycling, climbing, problem solving, board games design.

Destri, S.; Barba, L.; Gelmetti, I.; Di Bari, L.; Porzio, W. Macromol. Chem. Phys. 2015,

Gelmetti, I.; Cabau, L.; Montcada, N. F.; Palomares, E. ACS Appl. Mater. Interfaces

Moia, D.; Gelmetti, I.; et al. Energy Environ. Sci. 2019, 12 (4), 1296-1308.

Gelmetti, I.; Montcada, N.; et al. Energy Environ. Sci. 2019, 12 (4), 1309-1316.

References Dr. Piers R. F. Barnes

Prof. Emilio José Palomares Gil

epalomares@iciq.es