Personal information

Name / Surname

Address

Telephone

Personal Email

Nationality

Date of birth

Ilario Gelmetti

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

+34 675223010

iochesonome@gmail.com, ilario@sindominio.net

Italian

March 1988, Verona, Italy

Occupational field

Work experience

July 2020 - present

Project

Post-Doc researcher. Prof. J. R. Galán Mascarós group, Institute of Chemical Research of Catalonia (ICIQ), Tarragona, Spain.

Distributed chemicals and fuels production from CO₂ in photoelectrocatalytic devices. Development of anodes for ethanol oxidation.

Materials chemist, Laboratory technician, Data scientist, SysAdmin

June 2019 - Aug. 2019

Project

Student in Google Summer of Code grant, Freifunk and LibreMesh organizations. Load-correlated distributed bandwidth analysis for LibreMesh networks.

Education

Jan. 2015 - July 2019

Thesis Title Internship

Oct. 2007 - Oct. 2013

Sept. 2010 - Oct. 2013

Thesis Title Thesis Supervisor Thesis Laboratory

Sept. 2007 - July 2010

Thesis Title Thesis Supervisor

Sept. 2002 - June 2007

Pre-Doc researcher. Prof. Emilio Palomares group, Institute of Chemical Research of Catalonia (ICIQ) and Universitat Rovira i Virgili (URV), Tarragona, Spain. PhD final evaluation excellent *cum laude* and international mention.

Advanced Characterization and Modelling of Charge Transfer in Perovskite Solar Cells. 3 months, Dr. Piers Barnes Group, Dept. of Physics, Imperial College London, UK.

Diploma of Science Class. Final evaluation 70/70. Scuola Normale Superiore di Pisa, Italy.

Master Degree in Organic Chemistry. Final evaluation 110/110 cum laude. Dept. of Chemistry and Industrial Chemistry, University of Pisa, Italy.

Synthesis and Characterization of Chiral Polythiophenes.

Dr. Silvia Destri; Prof. Lorenzo Di Bari

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

Bachelor of Science in Chemistry. Final evaluation 110/110 cum laude. Dept. of Chemistry and Industrial Chemistry, University of Pisa, Italy.

Synthesis of Conjugated Polymers and Quantum Dots for Photovoltaics Applications.

Dr. Valter Castelvetro

Secondary school diploma. Final evaluation 100/100. ITIS G. Ferraris, Verona, Italy.

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

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
C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user

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

Language certificates

Certificat de nivell suficiència de català (level C1), Universitat Rovira i Virgili, July 2020.

Computer skills

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

Coding skills

BASH scripting (medium); coding in Python (medium, e.g. PyPV data acquisition software and data processing for electrochemistry data), coding in R (advanced, e.g. data processing for photovoltaics), coding in Matlab (medium, e.g. contributions to Driftfusion), coding in Lua (medium, e.g. contributions to LibreMesh).

Driving license

Driving license class B.

Volunteering

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–), TGNU Tarragona hacklab (co-founder, 2016–2018), No BoardGames (game developer, 2014–).

Hobbies and Interests

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

Publications

Destri, S.; Barba, L.; **Gelmetti, I.**; Di Bari, L.; Porzio, W. *Macromol. Chem. Phys.* **2015**, *216* (7), 801–807.

Gelmetti, I.; Cabau, L.; Montcada, N. F.; Palomares, E. *ACS Appl. Mater. Interfaces* **2017**, *9 (26)*, 21599–21605.

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

Contacts

Prof. **Emilio Palomares**, Institute of Chemical Research of Catalonia (ICIQ), Tarragona, Spain.

Contacts

epalomares@iciq.es +34 977 920 245