





PERSONAL INFORMATION

Edoardo Torti

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Sex Male | Date of birth 08/11/1990 | Nationality Italian

WORK EXPERIENCE

November 2014 - Today

Ph.D. Student

University of Pavia – Department of Chemistry – PhotoGreen Lab

- Ph.D. student in Chemistry and Drug Sciences under supervision of Prof. Maurizio Fagnoni. The Ph.D. project focuses on development of new caged compounds for acids photorelease, with particular regards to application in material science and microelectronics.
- Visiting graduate student in the Faculty of Science of Masaryk University (Brno, Czech Republic) from February 2017 to June 2017. The project focused on the study of phototriggered oxidations for radical photopolymerizations.

EDUCATION AND TRAINING

October 2012 – July 2014

Master's Degree in Chemistry (with honours)

University of Pavia – Department of Chemistry

- Advanced knowledge of organic chemistry, focusing mainly on photochemistry and organic chemistry applied to materials. Other theoretical and practical skills acquired in analytical chemistry, inorganic chemistry and material science.
- Experimental thesis (11 months of internship) with the title: "Aryl sulfonates and *N*-arylsulfonimides as PhotoAcid Generators (PAGs) for photoresists".

October 2009 – July 2012

Bachelor's Degree in Chemistry (with honours)

University of Pavia – Department of Chemistry

- Fundamental knowledge about chemistry. Other skills acquired regarding work in laboratory.
- Thesis with the title: "Aryl cations: chemical properties and potential uses as PhotoAcid Generators (PAGs)".

September 2004 – July 2009

High School degree (with honours)

Liceo Classico Benedetto Cairoli con annessa sezione di Liceo Scientifico – Vigevano (PV)

PERSONAL SKILLS

Mother tongue Italian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C1	C1	C1	C2
French	A2	A2	A1	A1	A1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
[Common European Framework of Reference for Languages](#)

Communication skills

- Good relational skills acquired during laboratory internships (working with other people).
- Good communication skills achieved during lectures held at university and participations at national and international congresses.

Organisational / managerial skills

- Leadership attitude (as an example: senior class president at High School).
- Good management skills and target oriented attitude acquired in laboratory.

Job-related skills

- Very good skills as an organic synthetic chemist.
- Good skills in analytical chemistry.
- Practical knowledge of many areas of organic photochemistry, in particular: photoinitiators for polymerization, radical reactions, radical photochemistry, UV curing, surfactants, ionizing radiations, solar filters, photodegradation of compounds, polymers and materials.
- Ability to use analytical chemistry instruments. In particular: HPLC, pHmeter, GC-FID, UV-vis spectrometer, fluorometer, NMR, FT-IR (also on materials).
- Good knowledge about sol-gel processes and micro/nanolithography.
- Basic knowledge about GC-MS, cyclic voltammetry and Laser Flash Photolysis techniques.

Digital competence

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

Levels: Basic user - Independent user - Proficient user
[Digital competences - Self-assessment grid](#)

- Good command of Office (Word, Excel and PowerPoint).
- Good command of ChemDraw.
- Good knowledge about Origin software.

Extra-work interests

- Sports, in particular cycling, swimming and fitness.
- Leisure boating.

Driving licence Car: Category B
 Boat: motorboat (limit of 12 nmi off the coast).

ADDITIONAL INFORMATION

- Publications**
- E. Torti, S. Protti, M. Fagnoni, G. Della Giustina "N-Arylsulfonimides as Photoinitiators for Cationic Polymerization of Epoxy Sol-Gel Materials" *ChemistrySelect* **2017**, 2, 3633-3636.
- E. Torti, S. Protti, D. Merli, D. Dondi, M. Fagnoni "Photochemistry of N-Arylsulfonimides. An Easily Available Class of Nonionic Photoacid Generators (PAGs)." *Chem. Eur. J.* **2016**, 22, 16998-17005 ***(highlighted in ChemistryViews website as new frontiers in chemistry)***.
- E. Torti, G. Della Giustina, S. Protti, D. Merli, G. Brusatin, M. Fagnoni "Aryl tosylates as non-ionic photoacid generators (PAGs): photochemistry and applications in cationic photopolymerizations." *RSC Adv.* **2015**, 5, 33239-33248.
- Projects**
- Part of the research project: "New materials for direct nanopatterning and nanofabrication by EUV and soft X-rays exposures", Principal Investigator: Prof. Maurizio Fagnoni.
- Others**
- Abilitation to pursue the profession as a chemist.
Vehicle ownership.