

PERSONAL INFORMATION

Antonio Fiorentino



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| Date of Birth 21/07/1996 | Nationality Italian

RESEARCH EXPERIENCE

october 2020-january 2024

PhD Research

University of Bologna, Department of Chemistry "Ciamician", Bologna (IT)

- Involved in the PRIN project "PHOLIES", funded by the Italian Ministry of Education and supervised by prof. Serena Silvi
- Working on the kinetic and thermodynamic characterization of novel light-responsive molecules in solution phase and in lipid bilayer membranes using steady-state and time-resolved spectroscopy techniques (UV-Vis absorption, stopped-flow, circular dichroism)
- Supervised the bachelor thesis of 3 students, and tutored the inorganic laboratory course "Chimica generale ed inorganica" of the bachelor chemistry programme "Chimica e chimica dei materiali" at University of Bologna
- Spent a 5-month research period at the University of Edinburgh (UK) supervised by prof. Scott Cockroft working on electrophysiology experiments through protein nanopores

february-september 2020

Master Thesis Research

University of Bologna, Department of Chemistry "Ciamician", Bologna (IT)

- Master thesis entitled: "Silicon Nanocrystals and their Water-Soluble Derivatives with Long-Lived Luminescence for Bioimaging Applications: a Review" conducted in prof. Paola Ceroni group
- Studied the performances of silicon nanocrystals as bioimaging platforms, gaining skills with the synthesis and characterization via emission spectroscopy of quantum dots

february-july 2018

Erasmus+ Traineeship

Universität zu Köln, Dep. f. Chemie, Cologne (GE)

- Research period at the University of Cologne, financed by the Erasmus+ programme and supervised by prof. Axel Klein
- Synthesized heterocyclic organic ligands and studied their coordination chemistry to Ni(II) ions
- Gained experience with the handling of air-sensitive compounds in inert atmosphere, NMR and single-crystal XRD techniques

june-august 2017

Internship

Aachen-Maastricht Institute for Biobased Materials, Geleen (NL)

- Research internship at Brightlands Chemelot Campus in the Netherlands, supervised by Dr. Dario Romano
- Studied vanadium complexes as catalysts for ethylene polymerization. Gained experience with polymer characterization techniques (FT-IR, TGA, DSC)

EDUCATION

2018-2020 **Master's Degree in Chemistry (LM-54 Scienze Chimiche)**

University of Ferrara, Ferrara (IT)

- Graduation grade: 110/110 e lode
- Main exam subjects: Photochemistry, Electrochemistry, Advanced Inorganic Chemistry

2015-2018 **Bachelor of Science**

Maastricht University, Maastricht (NL)

- GPA: 8.9/10 summa cum laude (Italian equivalent: 110/110 e lode)
- Main exam subjects: Organic Chemistry, Inorganic Chemistry, Quantum Chemistry

PERSONAL SKILLS

Mothertongue Italian

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Writing	Reading	Interaction	Oral Production	
English	C2	C2	C2	C2	C2
TOEFL iBT 106/120					

Computer skills

- Advanced skills with Office 365 package
- Proficiency with data analysis programs (Origin, Berkeley Madonna) and chemistry softwares such as Chemdraw, Specfit, MestReNova
- Experience with the molecular modelling package Gaussian for geometry and energy optimizations of single molecules

ADDITIONAL INFORMATION

Publications and conferences

- L. Kletsch, L. Payen, A. Fiorentino, B. Blom, D. Romano, G. Hoerner, A. Klein, *Organometallics*, **2023**, *42*, 2206-2215, doi: 10.1021/acs.organomet.3c00191
- A. Fiorentino, B. Sachini, S. Corrà, A. Credi, C. Femoni, A. Fraix, S. Silvi, *Chemical Communications*, **2022**, *58*, 11236-11239, doi: 10.1039/d2cc03761
Featured on the front cover of the journal
- A. Fiorentino, P. Panariti, L. van Turnhout, M. Spronck, A. Klein, S. Schmitz, S. Rastogi, B. Blom, D. Romano, *Industrial & Engineering Chemistry Research* **2020**, *59*, 12710-12718, doi: 10.1021/acs.iecr.0c01908
- Italian Photochemistry Meeting 2023 (Sestri Levante, Italy): contributed with an oral presentation
- ECECR EaStCHEM Conference for Young Researchers 2023 (Edinburgh, UK): contributed with an oral presentation; won the prize for the best oral presentation of the conference
- 5th ERC Grantees Conference 2023 (Edinburgh, UK): contributed with a poster presentation
- PhotOnline 2023 (Online): contributed with an oral presentation
- Italian Photochemistry Meeting 2022 (Ferrara, Italy): contributed with an oral presentation
- PhotolUPAC 2022 (Amsterdam, The Netherlands): contributed with an oral presentation
- Kroese-Duijsters Symposium 2022 (Leiden, The Netherlands): contributed with a poster presentation
- Italian Photochemistry Meeting 2021 (Turin, Italy): contributed with an oral presentation

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