

PERSONAL INFORMATION


Chiara Domestici


Sex: _____ | Date of birth: ____/____/1995 | Nationality: _____

ATTUAL POSITION

PhD's student in Chemical Sciences, with address in *Method and materials for catalysis, energy, environment and cultural heritage* (University of Perugia)

WORK EXPERIENCE

11/2019 – 2/2020 **Student's tutor / University of Perugia**
 Supervisors: Cristiano Zuccaccia (University of Perugia, Italy)
 Subject: General and Inorganic Chemistry
 Main activities: frontal lessons, exercises, teacher's support during the exams.

11/2017 – 7/2018 **Student's tutor / University of Perugia**
 Supervisors: Cristiano Zuccaccia (University of Perugia, Italy)
 Subject: General and Inorganic Chemistry
 Main activities: frontal lessons, exercises, teacher's support during the exams.

EDUCATION AND TRAINING

1/11/19 – Present **Doctoral Degree in Chemical Science XXXV cycle (University of Perugia)** EQF level 8
 Title: Iridium-based molecular and material catalysts for processes related to the production of renewable energy
 Curriculum: Method and material for catalysis, energy, environment and cultural heritage.
 Tutor: Alceo Macchioni (University of Perugia, Italy)
 Co-tutor: Cristiano Zuccaccia (University of Perugia, Italy)

10/2017 – 09/2019 **Second Level Degree in Chemical Sciences** EQF level 7
Final Mark: 110/110 cum laude
 Supervisors: Alceo Macchioni (University of Perugia, Italy), Christian Müller (Freie Universität Berlin, Germany)
 Address: Organometallic Chemistry; Phosphinines ligands; Coordination Chemistry; Catalysis.
 Thesis Title: "Iridium and rhodium complexes bearing pyridine – and phenyl – phosphinine ligands".

3/2019 – 8/2019 **Erasmus+ Traineeship**
 Berlin, Germany
 Hosting Institution: Freie Universität Berlin
 Supervisor: Christian Müller
 Address: Organometallic Chemistry; Phosphinines ligands; Coordination Chemistry; Catalysis.

- 10/2014 – 09/2017 **Frist Level Degree in Chemistry** EQF level 3
Final Mark: 110/110 cum laude
 Supervisors: Alceo Macchioni, Cristiano Zuccaccia (University of Perugia, Italy)
 Address: Inorganic Chemistry, Catalysis, Organometallic Chemistry
 Thesis Title: "Hydrogen generation from formic acid catalyzed by an iridium pyridine-amidate organometallic complex".
- 9/2009 – 7/2014 **Scientific high school** EQF level 4
Final Mark: 100/100
 "Renato Donatelli" Scientific high school, Terni, Italy.

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2*	B2*	B2*	B2*	B2*

**Certificated by CLA (University Languages Center – University of Perugia)*

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

Communication skills Excellent team spirit; ability to interact with colleagues also in English; ability to adapt in cultural contexts very different from mine (Germany).

Job-related skills

- Synthesis of organic and organometallic compounds
- Characterization of organic and organometallic compounds by means of NMR's spectroscopy
- Expert in the use of differential manometry
- Good knowledge in the use of gas chromatography
- Basic knowledge in the of autoclave system
- Good knowledge of the Schlenk Line technique
- Good knowledge in the use of the glovebox

Digital skills

- Good command of SO based on Windows
- Expert in the use of Origin
- Good knowledge of Microsoft Office
- Good command in the use of MestReNova
- Good command in the use of Top Spin
- Good knowledge in the use of Chemdraw

Other skills Competitive swimmer for 8 years; I love hang out with friends; I am passionate about books, music and art; I love traveling, also alone, and meeting people and cultures different from mine.

Driving licence B

ADDITIONAL INFORMATION

- Publications
- C. Domestici, L. Tensi, E. Boccalon, F. Zaccaria, F. Costantino, C. Zuccaccia, A. Macchioni. "Molecular and Heterogenized Cp*Ir Water Oxidation Catalysts Bearing Glyphosate and Glyphosine as Ancillary and Anchoring Ligands". *Eur. J. Inorg. Chem.*, **2021**, 2021, 229.
- C. Domestici, T. Tensi, F. Zaccaria, N. Kissimina, M. Valentini, R. D'Amato, F. Costantino, C. Zuccaccia, A. Macchioni. "Molecular and Heterogenized Dinuclear Ir-Cp* Water Oxidation Catalysts Bearing EDTA and EDTMP as Bridging and Anchoring Ligands". *Sci. Bull.*, **2020**, 65, 1614-1625.
- G. Menendez Rodriguez, C. Domestici, A. Bucci, M. Valentini, C. Zuccaccia, A. Macchioni. "Hydrogen Liberation from Formic Acid Mediated by Efficient Iridium (III) Catalysts Bearing Pyridine-carboxamide Ligands". *Eur. J. Inorg. Chem.*, **2018**, (2018) 20-21, 2247-2250.
- Contributions to Congresses
- "Molecular and Heterogenized Dinuclear Ir-Cp* Water Oxidation Catalysts Bearing EDTA or EDTMP as Bridging and Anchoring Ligands". C. Domestici, T. Tensi, F. Zaccaria, N. Kissimina, M. Valentini, R. D'Amato, F. Costantino, C. Zuccaccia, A. Macchioni. International School of Chemistry "Chemistry for Every Day Life", Camerino, Italy, September 1st, **2020**.
 - "Strategies for the Development of Efficient Ir-based Water Oxidation Catalysts". F. Zaccaria, I. Fagiolari, L. Tensi, C. Domestici, R. Viviani, F. Costantino, C. Zuccaccia, A. Macchioni, 2nd Congress of the Interdivision Group on Chemistry for Renewable Energy of the Italian Chemical Society, Padua, Italy, February 12-14th, **2020**.
 - "Half-sandwich Ir(III) Complexes Bearing Pyridine-carboxamide Ligands as Efficient Catalysts for Formic Acid Dehydrogenation". G. Menendez Rodriguez, C. Domestici, F. Zaccaria, P. Belanzoni, A. Macchioni, 2nd Congress of the Interdivision Group on Chemistry for Renewable Energy of the Italian Chemical Society, Padua, Italy, February 12-14th, **2020**.
 - "Iridium Pyridine Carboxylate and Amidate Complexes as Efficient Catalysts for Energy Applications". G. Menendez Rodriguez, C. Domestici, S. van Dijk, G. Gatto, L. Tensi, G. Bellachioma, P. Belanzoni, C. Zuccaccia, A. Macchioni, 23rd Conference on Organometallic Chemistry, Helsinki, Finland, June 16- 20th, **2019**.
 - "Hydrogen Evolution from Formic Acid Mediated by Iridium Catalyst Bearing Pyridine-Carboxiamide Ligands". G. Menendez Rodriguez, C. Domestici, A. Bucci, M. Valentini, C. Zuccaccia, A. Macchioni, 43rd International Conference on Coordination Chemistry, Sendai, Japan, July 30- August 4th, **2018**.
 - "Hydrogen Evolution from Formic Acid Mediated by Iridium Catalysts Bearing Pyridine-Carboxiamide Ligands". G. Menendez Rodriguez, C. Domestici, A. Bucci, M. Valentini, C. Zuccaccia, P. Belanzoni, A. Macchioni, XLVI Congresso Nazionale di Chimica Inorganica, Bologna, Italy, September 10-13rd, **2018**.
 - "An Efficient Iridium Catalyst for Hydrogen Generation from Formic Acid". G. Menendez Rodriguez, C. Domestici, C. Zuccaccia, A. Macchioni, 24th International School of Organometallic Chemistry, Camerino, Italy, September 2-6th, **2017**.
- Certifications
- EChemTest (ECTNA) in Inorganic Chemistry, Level 3, evaluation optimum.