

## Curriculum Vitae Europass

### Personal information

First name / Surname

Address

Telephone

E-mail

Nationality

Date of birth

Gender

**Martina Fracchia**

via Fornace 2, 15040, Rivarone, (AL), Italy

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Italian

17/03/1992

F

### Education and training

Dates

*November 2016 up to now*

Title of qualification awarded

Currently enrolled in my first year of **PhD in Chemistry**

**Research Programme:** Study of the mechanisms of electrochemical reactions at the interface

The research work is carried out in collaboration with the E.S.R.F. (European Synchrotron Radiation Facility, Grenoble, France) and with the University of Milan.

Name and type of organisation providing education and training

University of Pavia, Faculty of Mathematical, Physical and Natural Sciences, Via Taramelli 12 27100 Pavia

Dates

*October 2014 – June 2016*

Title of qualification awarded

**Master's Degree** (specialization in **Chemistry of Materials**) - final grades **110/110 cum laude**

Thesis Title: "Water splitting photo-catalysis: mechanisms of reaction".

G.P.A.: 30/30

Name and type of organisation providing education and training

University of Pavia, Faculty of Mathematical, Physical and Natural Sciences, Via Taramelli 12 27100 Pavia

Dates

*October 2011 – July 2014*

Title of qualification awarded

**Bachelor's Degree (Chemistry)** - final grades **110/110 cum laude**

Thesis Title: "The oxides as thermoelectric materials"

G.P.A.: 30/30

Name and type of organisation providing education and training

University of Pavia, Faculty of Mathematical, Physical and Natural Sciences, Via Taramelli 12 27100 Pavia

Dates	<i>September 2006- July 2011</i>
Title of qualification awarded	Secondary School Diploma (Scientific Studies) – final grades <b>100/100</b>
Name and type of organisation providing education and training	Liceo Scientifico Galileo Galilei, Spalto Borgoglio 49, Alessandria, Italy
<b>Abroad Experience</b>	
Dates	<i>September 2015 up to now</i>
Title of qualification awarded	Participation in the experiments:  IH-CH 1005 “Dynamics of photoelectrochemical water splitting in iridium oxide”  08-01-1004: “Understanding Charge Transfer and Redox Cascade Phenomena in Photoelectrode Architectures by in-operando XAS  MA 3050 “In-operando HERFD XANES and RIXS of semiconductor/electrocatalyst junction for water splitting photoanodes”
Name and type of organisation providing education and training	ESRF, European Synchrotron Radiation facility, Grenoble, France
Dates	July 2008 and July 2009
Title of qualification awarded	Participation in the English Language Course at Alpha College in Dublin– Upper Intermediate Level  Participation in the English Language Course at UIC-London– Upper Intermediate Level
Name and type of organisation providing education and training	Alpha College of English, 4 N Great George’s St, Dublin 1, Ireland  Language House, 76-78 Mortimer Street, London, W1W 7SA, United Kingdom
<b>Awards and scholarships</b>	
Dates	May 2015
Title of qualification awarded	Winner of the scholarship “Matteo Bertero”, awarded to the most worthy graduated student in Chemistry
Name and type of organisation providing education and training	University of Pavia, Faculty of Mathematical, Physical and Natural Sciences Via Taramelli 12 27100 Pavia

Dates	<i>January 2016 up to now</i>
Title of qualification awarded	Educational Workshops tutor in the Course ‘‘Laboratory of Physical Chemistry III’’ Educational Workshops tutor in the Course ‘‘Laboratory of Analytical Chemistry I’’ Educational Workshops tutor in the Course ‘‘Laboratory of Analytical Chemistry II’’
Name and type of organisation providing education and training	Università degli studi di Pavia
Dates	<i>September 2016</i>
Title of qualification awarded	Participation in the summer school ‘‘Polymorphism, stability and phase transitions in crystals: theory, experiments, applications’’
Name and type of organisation providing education and training	Associazione italiana di cristallografia (AIC)
Dates	<i>January 2016</i>
Title of qualification awarded	Participation in the course ‘‘Methods, databases and application of X-ray powder diffraction’’ held by Prof. Habib Boughzala (Université de Tunis El Manar)
Name and type of organisation providing education and training	University of Pavia

### Publications

- [1] E. Achilli, A. Minguzzi, A. Visibile, C. Locatelli, A. Vertova, A. Naldoni, S. Rondinini, F. Auricchio, S. Marconi, **M. Fracchia**, P. Ghigna, ‘‘3D-printed photo-spectroelectrochemical devices for in situ and in operando X-ray absorption spectroscopy investigation’’, *J. Synchrotron Radiat.*, (2016), 23, 622-628
- [2] Tomasz Baran, **Martina Fracchia**, Alberto Vertova, Elisabetta Achilli, Alberto Naldoni, Francesco Malara, Giacomo Rossi, Sandra Rondinini, Paolo Ghigna, Alessandro Minguzzi, Francesco D’Acapito, ‘‘Operando and Time-Resolved X-Ray Absorption Spectroscopy for the Study of Photoelectrode Architectures’’, *Electrochim Acta.*, (2016), 207, 16-21

[3] Tomasz Baran, Szymon Wojtyla, Cristina Lenardi, Paolo Ghigna, Elisabetta Achilli, **Martina Fracchia**, Sandra Rondinini, Alessandro Minguzzi, “An Efficient CuxO Photocathode for Hydrogen Production at Neutral pH: New Insights from Combined Spectroscopy and Electrochemistry”, *ACS Appl. Mater. Interfaces*, (2016), 8 (33), 21250–21260

**Personal skills and competences**

Mother tongue Italian

Other languages English (level C1), German (level A2)

In May 2010 I took the FIRST certification (University of Cambridge, ESOL Examinations) and I was awarded level A

**Computer skills and competences**

Good knowledge of standard software (Word, Excel, Power Point, Sigmaplot)  
Knowledge of Excurve, Athena (Ifeffit), Atoms, Vesta, Fullprof, Maud, Eva, Gsas, Topas.

Driving licence Driving Licence (type B)

Personal interests Reading, trekking

I allow the use and processing of my personal data according to the D. Lgs 196/2003

Updated February 2017

Martina Fracchia