



# Marco Milone

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Email address: [mmilone@unime.it](mailto:mmilone@unime.it)

## WORK EXPERIENCE

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02/09/2022 – 29/11/2022 Messina, Italy

**TERM-CONTRACT WORKER - CONTRATTO DI COLLABORAZIONE "CO.CO.CO."** CHROMALEONT SRL

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Collaboration and scientific advice at Chromaleont, regarding the synthesis and characterization of Psilocin, Psilocybin, and tryptamine structural analogs, with possible applications aimed at pain relief, treatment of anxiety-related disorders, and smoking-cessation.

**Address** Dipartimento di Scienze Chimiche, Biologiche, Farmaceutiche ed Ambientali, Università di Messina, Polo Annunziata, 98168, Messina, Italy

**Email** [chromaleont@chromaleont.it](mailto:chromaleont@chromaleont.it) | **Website** <https://www.chromaleont.it/>

01/06/2022 – 01/07/2022 Messina, Italy

**SELF-EMPLOYMENT - CONTRATTO DI PRESTAZIONE OCCASIONALE** CHROMALEONT SRL

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Professional services and scientific advice for Chromaleont srl concerning the project of "Research and Development" for the synthesis and characterization of psilocybin and other tryptamine derivatives.

**Address** Dipartimento di Scienze Chimiche, Biologiche, Farmaceutiche ed Ambientali, Università di Messina, Polo Annunziata, 98168, Messina, Italy

**Email** [chromaleont@chromaleont.it](mailto:chromaleont@chromaleont.it) | **Website** <https://www.chromaleont.it/>

25/05/2020 – 05/09/2020 Messina, Italy

**TUTOR** UNIVERSITY OF MESSINA

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Tutor activity for Organic Chemistry in PLS ("Piano Lauree Scientifiche) project, whose aim is to foster the acquisition of scientific skills that better meet the challenges of contemporary society and the expectations of the workplace for the students and to strengthen the impact of education on society.

**Business or Sector** Education |

**Department** Department of Chemical, Biological, Pharmaceutical and Environmental Sciences |

**Address** Messina, Italy

09/2017 – 12/2017 Messina, Italy

**INTERN** CNR ITAE

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Sector R&D: design, synthesis, characterization and development of eco-sustainable hydrogen-storage materials and hydrogen-carrier polymers.

## EDUCATION AND TRAINING

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30/10/2018 – 24/02/2022 Messina, Italy

**PH.D. IN CHEMICAL SCIENCES** University of Messina

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Design, synthesis, analysis and properties of functional molecular systems.

**Address** Messina, Italy | **Website** [www.unime.it](http://www.unime.it) | **Field of study** Chemistry | **Final grade** Cum Laude |

**Thesis** Molecular and supramolecular behaviour of tubular macrocycles

2015 – 2018 Messina, Italy

**MASTER DEGREE IN CHEMICAL SCIENCES** University of Messina

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Supramolecular-nanotechnology university course

**Address** Messina, Italy | **Website** [www.unime.it](http://www.unime.it) | **Field of study** Chemistry | **Final grade** 110/110 Cum Laude |

**Thesis** SINTESI DI PILLARARENI POLIMERIZZABILI

2012 – 2016 Messina, Italy

**BACHELOR DEGREE IN CHEMICAL SCIENCES** University of Messina

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**Address** Messina, Italy | **Website** [www.unime.it](http://www.unime.it) | **Field of study** Chemistry | **Final grade** 110/110 Cum Laude |

**Thesis** FUNZIONALIZZAZIONE SELETTIVA DI CALIX[5]ARENI CON GRUPPI VINIL-TERMINALI

Messina , Italy

**24 CFU PER ACCESSO FIT - FORMAZIONE DOCENTI** University of Messina

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**Address** Messina , Italy | **Website** [www.unime.it](http://www.unime.it) | **Field of study** Teacher training without subject specialisation

24/11/2022 Messina, Italy

**ABILITAZIONE ALLA PROFESSIONE DI CHIMICO** University of Messina

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**Address** Messina, Italy | **Website** [www.unime.it](http://www.unime.it)

06/07/2014 Messina, Italy

**DLGS 81/08 E PROBLEMATICHE SULLA SICUREZZA** University of Messina

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**Address** Messina, Italy | **Website** [www.unime.it](http://www.unime.it) | **Field of study** Personal skills and development |

**Type of credits** CFU | **Number of credits** 2

22/10/2014 Messina, Italy

**DEONTOLOGIA ED ATTUALITÀ DELLA PROFESSIONE DI CHIMICO** University of Messina

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**Address** Messina, Italy | **Website** [www.unime.it](http://www.unime.it) |

**Field of study** Generic programmes and qualifications not further defined

2007 – 2013 Messina, Italy

**DIPLOMA DI MATURITÀ CLASSICA** Liceo Classico "Maurolico"

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**Address** Messina, Italy | **Website** [www.maurolicomessina.edu.it](http://www.maurolicomessina.edu.it) |

**Field of study** Generic programmes and qualifications | **Final grade** 100/100

● **LANGUAGE SKILLS**

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Mother tongue(s): **ITALIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	B1	B1	B1	B1	B1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

## ADDITIONAL INFORMATION

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### HONOURS AND AWARDS

12/05/2016

**Carreer Award - "Onore al Merito" - University of Messina** Awarding of the 300 most deserving students of the University of Messina

14/05/2017

**Carreer Award - "Onore al Merito" - University of Messina** Awarding of the 300 most deserving students of the University of Messina

13/05/2018

**Carreer Award - "Onore al Merito" - University of Messina** Awarding of the 300 most deserving students of the University of Messina

### SCIENTIFIC ACTIVITY

#### Publications

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- **Proton transfer mediated recognition of amines by ionizable macrocyclic receptors**; Gattuso, G.; Crisafulli, D.; Milone, M.; Mancuso, F.; Pisagatti, I.; Notti, A.; Parisi, M. F.; *Chem. Commun.*, **2022**, 58, 10743–10756. DOI: 10.1039/d2cc04047f.
- **Which DFT factors influence the accuracy of <sup>1</sup>H, <sup>13</sup>C and <sup>195</sup>Pt NMR chemical shift predictions in organopolymetallic square-planed complexes? New scaling parameters for homo- and hetero-multimetallic compounds and their direct applications**; Bella, G.; Milone, M.; Bruno, G.; Santoro, A.; *Phys. Chem. Chem. Phys.*, **2022**, 24, 26642–26658. DOI: 10.1039/D2CP02773A.
- **Tetracationic-to-dianionic tetraamino-dihydroxy-tetraoxacalix[4]arene: a paraquat receptor for all seasons**; Mancuso, F.; Crisafulli, D.; Milone, M.; Irto, A.; Cigala, R. M.; Lando, G.; Pisagatti, I.; Notti, A.; Gattuso, G.; *J. Mol. Liq.*, **2022**, 297, 112038; DOI: 10.1016/j.molliq.2022.120670.

#### Oral Contributions

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- **2nd DoctoChem Convention**: Internal conference of PhD students. Oral Contribution: "*Synthesis of Pillararene-based smart material*" (2019).
- **Mini-Symposium: from Chemistry to Biochemistry; from Synthetic to Supramolecular Chemistry**: international Italy-Netherlands scientific meeting. Oral Contribution: "*Pillararene-based smart materials*" (2019).
- **3rd DoctoChem Convention**: Internal conference of PhD students. Oral Contribution "*Water-soluble pillar[6]arene-based functional materials*" (2020).
- **Società Chimica Italiana - Workshop della Sezione Sicilia**: Oral Contribution: "*Pillar[n]areni per la costruzione di polimeri autodiagnostici e superfici antimicrobiche*" (2020).
- **Convegno "CINMPIS Days Messina" del Consorzio Interuniversitario Nazionale sui Metodi e Processi Innovativi di Sintesi**: international conference hosted by University of Messina. Oral Contribution: "*Tuning the self-assembly of calix[4]tube derivatives*" (2021).
- **4th DoctoChem Convention**: Internal conference of PhD students. Oral Contribution: "The chemistry of tubular calixarenes derivatives" (2021).

#### Poster Contributions

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- **XXVII Congresso Nazionale Della Società Chimica Italiana**: "*The self-assembly and disassembly of octatolylurea calix[4]tube*" (2021).

#### Conventions

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- **1<sup>st</sup> Virtual Symposium on Pericyclic Reactions and Synthesis of Carbo- and Heterocyclic Systems**: Member of Scientific and Organizing committee for "Centro Interuniversitario di Ricerca sulle reazioni Pericicliche e sintesi di sistemi etero e carbociclici" (C.I.R.P.). Date: November 24-25, 2020.

- **Supramol 2015:** Università degli studi di Messina, Atahotel Naxos Beach Resort Hotel. Congresso internazionale sulla progettazione e sintesi di composti supramolecolari, e loro applicazioni in vari ambiti. A cura di: Prof. Luigi Monsù Scolaro, Data: 12/09/2015.
- **Calixarenes 2015:** Università degli studi di Messina Atahotel Naxos Beach Resort Hotel. Congresso internazionale con tema incentrato sui Calixareni, loro sintesi e applicazioni. A cura di: Prof. Melchiorre F. Parisi, Data: 04/07/2015.

### **Schools/Training**

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- ***XLV "A. Corbella" International Summer School on Organic Synthesis- ISOS 2020 (2021):*** Participation to international summer school on advanced organic synthesis, with worldwide invited speakers.

### **SKILLS**

#### **Digital Skills**

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- Microsoft Power Point
- Microsoft Word
- Microsoft Excel
- Pages
- Keynote
- Numbers
- MestReNova
- ChemDraw
- Gimp
- Origin
- Gaussian
- GaussView
- Avogadro
- Mercury

#### **Instrument Skills**

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- Varian NMR Spectrometer
- Bruker NMR Spectrometer
- Agilent NMR Spectrometer
- PerkinElmer Lambda 45 UV/VIS Spectrometer
- Agilent Cary WinUV 50 Spectrometer
- PerkinElmer LS 45 Spectrophotometer
- NIMA DipCoater