

ANDREA MESSINA

Date of birth: _____ Age _____
Place of birth: _____
Citizenship: _____
Residence: _____
Telephone number: _____
e-mail: _____

EDUCATION

Master's Degree (2019-2022)

Università degli Studi di GENOVA, Department of Chemistry and Industrial Chemistry, Master Course in Chemical Sciences

Curricula: Master Course in Chemical Sciences, Organic Chemistry Applied to Materials and Life Sciences

LM-54 – Master Course in Chemical Sciences

Master's thesis Title: Synthesis of new organic fluorophores through Ugi multicomponent reaction followed by domino Pd-catalysed cascade process

Supervisor: Professor Renata Riva

General Subjects: Advanced Organic Chemistry, Advanced Analytical Chemistry, Advanced Inorganic Chemistry and Theoretical Chemistry

Final mark: 110 with honors

Date of graduation: 25/03/2022

Duration of the course: 2 years

Bachelor's Degree (2016-2019)

Università degli Studi di GENOVA, Department of Chemistry and Industrial Chemistry, Bachelor Course in Chemistry, and Chemical Technologies

Curricula: Bachelor Course in Chemistry and Chemical Technologies

L-27 – Bachelor Course in Chemistry and Chemical Technologies

Bachelor's thesis Title: Preparation of intermediates for the multicomponent synthesis of natural products

Supervisor: Professor Andrea Basso

General Subject: Basic and Intermediate Organic Chemistry, Basic and Intermediate Analytical Chemistry, Basic and Intermediate Inorganic Chemistry, Basic and Intermediate Physical Chemistry, Basic biochemistry

Final mark: 110 with honors

Date of graduation: 25/10/2019

Duration of the course: 3 years

Secondary School Graduation (2011-2016)

Secondary School Institute "Giulio Ciampini" (Novi Ligure)

Curricula: Chemistry, Materials and Biotechnologies for the environmental control

Final mark: 100/100

WORK EXPERIENCE

From 11/2022

PhD student

Doctorate in Science and Technologies of Chemistry and Materials (STCM) XXXVIII Cycle

Università degli Studi di GENOVA, Department of Chemistry and Industrial Chemistry

Curricula: Chemical Science and technologies

Research Projects:

"The use of click chemistry in the functionalization of nanoparticles for the development of magnetorheological electrolytes". Work correlated to the European founded Project REMAP (reusable mask patterning).

"Insertion Of Isocyanides To Inactivated Iodides Through Visible Light Induced Pd Catalysis" Project founded by MIUR with funding coming from PRIN-2022

Acquired Skills: propose and follow and entire multistep synthetic procedure, problem solving for advanced synthesis, ³¹P-NMR, TOCSY NMR, DLS, DSC-TG, working with nanoparticles

06/2022 – 11/2022

Post Degree Research Grant

Università degli Studi di GENOVA, Department of Chemistry and Industrial Chemistry

Grant founded by the European founded project "REMAP".

Research Projects: Synthesis of organic ligands for surface coating of magnetic nanoparticles for the development of magnetorheological electrolytes.

03/2021 – 02/2022

Lab Work for Master's Thesis:

Università degli Studi di GENOVA, Department of Chemistry and Industrial Chemistry

Activity carried out: Advanced organic synthesis and analysis of the experimental results with different analytical techniques.

Acquired Skills: follow multistep synthesis even using advanced procedures, manipulate metals for catalysis, conduct reaction with microwaves, ¹³C-NMR, COSY NMR, HSQC NMR, HMBC NMR, HPLC, GC-MS

06/2019 – 08/2019 (250 hours)

Lab Work for Bachelor's Thesis:

Università degli Studi di GENOVA, Department of Chemistry and Industrial Chemistry

Activity carried out: Basic organic synthesis and analysis of the experimental results with different analytical techniques.

Acquired Skills: start a reaction, follow its evolution using different techniques and purifies it, conduct reaction in inert atmosphere, conduct reaction using light, ¹H-NMR, IR, UV

08/2015 – 09/2015 (80 hours)

Work-related Learning :

Poliresin SRL, private industry

Activity carried out: learning how to control the quality of a manufactured product (quality control)

OTHERS

LANGUAGES COMPETENCE

Italian: native speaker

English: level B2

French: level A1

IT COMPETENCE

ECDL FULL STANDARD, AICA, 2016

AWARD

Winner of scholarship for academic results "Marino Novi" academic year 2016-2017

WORK AND EDUCATION ACTIVITIES

From November 2023 to July 2024 (50 h)

Didactic tutoring activities for courses "General chemistry and Organic chemistry" for Bachelor's degree in "Biotechnology"

From November 2023 to December 2023 (26 h)

Active support to didactic laboratories for the course "Organic chemistry with laboratory" for Bachelor's degree in "Chemistry and Chemical Technologies"

From April 2023 to May 2023 (24 h)

Active support to didactic laboratories for the course "Organic chemistry" for Bachelor's degree in "Biotechnology"

