




Stefano Gianvittorio

Date of birth: 30/06/1998


Nationality: Italian

Gender: Male

CONTACT

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EDUCATION AND TRAINING

01/11/2022 - CURRENT

PhD in industrial chemistry (38th cycle) Alma Mater Studiorum-University of Bologna

Research project: "Industrial scale printing of nanomaterials for electrochemical sensors".

Supervisor: Prof. Andreas Lesch.

Co-supervisor: Prof.ssa Domenica Tonelli.

19/10/2020 - 21/10/2022 Bologna, Italy

LM71-Master degree in industrial chemistry Alma Mater Studiorum-University of Bologna

Master degree thesis focused on the manufacture of electrochemical biosensors built on commercial screen-printed electrodes for the detection of pesticides in water.

The aim of such thesis work is to functionalize commercial screen-printed electrodes to build ready-to-use biosensors (based on enzyme inhibition) to detect pesticides in aqueous matrices.

Supervisor: Prof. Domenica Tonelli.

Co-supervisor: Dr. Isacco Gualandi.

Acquired skills: research methodologies, electrochemical techniques of analysis and characterization (CV, chronoamperometry, DPV, potentiometry), biosensors, electrode modification techniques (drop-casting, electropolymerization), study of nanomaterials (MWCNTs, AuNPs).

Field of study Analytical chemistry, Electrochemistry | **Final grade** 110/110 cum

laudae | **Thesis** "Sviluppo di biosensori reagentless basati sull'enzima fosfatasi alcalina"

Supervisor: Prof.ssa Domenica Tonelli. Co-supervisor: Dr. Isacco Gualandi.

01/10/2017 - 14/10/2020 Bologna, Italy

L27-Bachelor degree in industrial chemistry Alma Mater Studiorum-University of Bologna

Bachelor degree thesis focused on the development and validation of computational calculation methodologies based on the DFT theory for the study of the luminescent properties of organic molecules.

Acquired skills: organic synthesis methodologies (Schlenk technique, use of pyrophoric reagents), computational chemistry (HF, DFT, TD-DFT method, Gaussian09 software), spectroscopic techniques (NMR, UV-VIS, spectrofluorimetry, mass spectroscopy), chromatographic techniques (HPLC, TLC, LPC).

Field of study Organic chemistry, Computational chemistry, Spectroscopy |

Final grade 110/110 con lode | **Thesis** "Studio computazionale sulla fluorescenza di

borano-carbazoli e borano-benzocarbazoli" Supervisor: Prof. Andrea Mazzanti. Co-supervisors: Dr. Michele Mancinelli, Dr. Daniel Pecorari.

07/09/2012 - 06/07/2017 PESCARA, Italy

High school leaving qualification in chemistry IIS Alessandro Volta

Address 65124, PESCARA, Italy | **Field of study** Chemistry, Materials chemistry,

Analytical chemistry | **Final grade** 100/100 | **Thesis** Idrogenazione catalitica degli oli

vegetali

WORK EXPERIENCE

15/06/2016 - 15/07/2016 PESCARA, Italy

Scientific laboratory technician-school-job exchange LACI srl.

Preparation and analysis of environmental samples (water, soil, etc.).

Preparation and analysis of food samples (vegetable oils etc.).

Atmospheric sampling on industrial discharges.

Microbiological analysis.

Calibration and instrumentation control (chromatographs, spectrophotometers, scales, etc.).

LANGUAGE SKILLS

MOTHER TONGUE(S): Italian

Other language(s):

English

Listening
B2

Reading
B2

Spoken production
B2

Spoken interaction
B2

Writing
B2

French

Listening
A1

Reading
A1

Spoken production
A1

Spoken interaction
A1

Writing
A1

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

DIGITAL SKILLS

Padronanza del Pacchetto Office (Word Excel PowerPoint ecc) | Uso dei programmi Origin®, MestReNova, ChemDraw | Gaussian09

ADDITIONAL INFORMATION

Honours and awards

21/10/2022 Alma-Mater-Studiorum-Università di Bologna

"Lorenzo Geminiani" prize

09/09/2021 Alma Mater Studiorum-University of Bologna

"Magelli prize" for deserving students

08/09/2017 IIS Alessandro Volta (PE)

"Bruno Di Marzio prize" for deserving students

Publications

[Print-Light-Synthesis for Single-Step Metal Nanoparticle Synthesis and Patterned Electrode Production](#) 2023

First author

Nanomaterials, 2023, 13,1915, pp. 1 - 21

[Print-Light-Synthesis of Gold Thin Film Electrodes for Electrochemical Sensing](#) 2023

Co-first author

Advanced Materials Technologies, 2023, 2202039, pp. 1 - 12

[ALP-Based Biosensors Employing Electrodes Modified with Carbon Nanomaterials for Pesticides Detection](#)

2023

First author

Molecules, 2023, 28, pp. 1532 - 1532-1

[Highly twisted carbazole-borane derivatives: B-N stereodynamic analysis and consequences on their emission properties](#)

2021

Projects

31/01/2016 – 06/05/2017

Tecnicamente 2017 (Adecco Pescara) Member of the team for the development of the project "A new polymer for a new circular economy"

03/2014 – 05/2014

Giochi della chimica 2014 Regionali Abruzzo (11° classificato)

03/2016 – 05/2016

Giochi della chimica 2016 Regionali Abruzzo (16° classificato)

Certifications

08/2021 – 09/2023

IELTS level B2 certification (released by British Council)

01/2017 – 02/2020

ECDL (European Computer Driving Licence) full standard certificate (released by AICA-Associazione Italiana per l'Informatica e il Calcolo Automatico)

01/2017 – CURRENT

ECDL (European Computer Driving Licence) standard certificate (released by AICA-Associazione Italiana per l'Informatica e il Calcolo Automatico)

05/2016 – CURRENT

ECDL (European Computer Driving Licence) IT-Security certificate (released by AICA-Associazione Italiana per l'Informatica e il Calcolo Automatico)

03/2015 – CURRENT

PET certificate (released by University of Cambridge)

Communication and interpersonal skills

Teamwork I believe in teamwork and I always try to be available and ready to listen and deal to the people I work with.

Organizational skills I have a particular interest towards the organization and coordination of working groups.

Teaching

I find it fascinating to pass my knowledge in the field of chemistry to other people and have the opportunity to help them in case of difficulties with the subject, for this reason, at the same time as my university activity, I give private lessons of general chemistry.

Problem solving Personally I consider problems as stimulating challenges and opportunities for growth rather than as simple obstacles, for the resolution of problems and inconveniences I try to use an approach as methodical and rational as possible.

Driving Licence

Driving Licence: B

Hobbies and interests

Theater and improvisation Currently I attend a course in theater and improvisation at the cultural association "Dive rtatro" in Bologna. During the high school years I attended the theater school "Florian metateatro" for 2 years (2014-2016) and I had the opportunity to act in several Shakespearean-themed shows.

Cinema I am a cinephile, and a great lover and admirer of Italian and international contemporary cinema

Cooking

Sport Since I was a child (since 2002) I practice free swimming.

Mechanics and engines

Autorizzo il trattamento dei miei dati personali presenti nel CV ai sensi dell'art. 13 d. lgs. 30 giugno 2003 n. 196 - "Codice in materia di protezione dei dati personali" e dell'art. 13 GDPR 679/16 - "Regolamento europeo sulla protezione dei dati personali".

Bologna, 11/07/2023

A handwritten signature in black ink, appearing to read "Stefano Gianvittorio", is displayed within a light blue rectangular box.

Stefano Gianvittorio