

# Curriculum Vitae

## Stefano Cinti

Associate Professor in Analytical Chemistry  
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Birthdate 23 July 1987

### a) **EDUCATION** (*University of Rome "Tor Vergata"*):

AA 2014-2015: PhD in Chemical Sciences, Excellent Summa cum Laude. (Prof. Palleschi)

AA 2010-2011: Master Degree in Chemistry, 110 Summa cum Laude. (Prof. Palleschi)

AA 2008-2009: Bachelor Degree in Chemistry, 110 Summa cum Laude. (Prof. Monti)

### b) **GRANTS:**

2024: Postdoctoral Fellowship - Fondazione Umberto Veronesi (30k Eur) - **Supervisor**

2023: PRIN, Italian Ministry of University (100k Eur) - **PI**

2023: My First AIRC Grant – AIRC (500k Eur) - **PI**

2023: Marie Skłodowska-Curie Actions Individual Fellowship, Funding scheme: MSCA-IF-EF-ST, Proposal number: 101110684, Proposal acronym: SMART (170k Eur) - **Supervisor**

2023: Marie Skłodowska-Curie Actions Individual Fellowship, Funding scheme: MSCA-IF-EF-ST, Proposal number: 101107015, Proposal acronym: AMP'D (170k Eur) - **Supervisor**

2023: Postdoctoral Fellowship - Fondazione Umberto Veronesi (30k Eur) - **Supervisor**

2022: Postdoctoral Fellowship - MAECI (6k Eur) - **Supervisor**

2022: Postdoctoral Fellowship - Fondazione Umberto Veronesi (30k Eur) - **Supervisor**

2020: Canon Foundation in Europe Research Grant (4k Eur) - **PI**

2019: Marie Skłodowska-Curie Actions Individual Fellowship, Funding scheme: MSCA-IF-EF-ST, Proposal number: 794007, Proposal acronym: SHINE (158k Eur) - **PI**

2018: Postdoctoral Fellowship - Fondazione Umberto Veronesi (27k Eur) - **PI**

2017: Postdoctoral Fellowship - Fondazione Umberto Veronesi (27k Eur) - **PI**

### **HONORS:**

2024: World's Top 2% Scientists List of Stanford University

2024: 2023 ACS Measurement Science Au Rising Star

2023: Premio Levi from Italian Chemical Society

2023: World's Top 2% Scientists List of Stanford University

2023: Sensor Division Early Career Award of Electrochemistry Society (ECS)

2022: World's Top 2% Scientists List of Stanford University

2022: Biosensors MDPI Young Investigator Award

2022: Early Career Analytical Electrochemistry Prize of International Society of Electrochemistry (ISE) Division 1

2021: World's Top 2% Scientists List of Stanford University

2020: World's Top 2% Scientists List of Stanford University

2020: Italia Giovane Award 2020 – Special Mention of Merit for clinical research

2019: Best Young researcher 2019 in Analytical Chemistry from the Analytical Division of Italian Chemical Society.

2018: YERUN Research Mobility Award 2018-2019.

2018: Best Young researcher 2018 in Bioanalytical Chemistry from the Bioanalytical Division of Italian Chemical Society.

2018: Best Poster Award at Swiss Symposium in Point-of-Care Diagnostics 2018.

2018: FameLab 2018, L'Aquila - Winner of the local science communication competition designed to engage and entertain.

2017: Winner of C Travel Award by "Journal of Carbon Research, MDPI".

2016: Best PhD thesis in Electrochemistry 2016 from Italian Chemical Society sponsored by "Fondazione De Nora".

2015: Third prize in "Chemistry and Light Contest" organized by ChemistryViews.org, with an essay titled "Chirality helps light to strike cancer".

## **ITALIAN NATIONAL SCIENTIFIC QUALIFICATION (ASN)**

2022: Area 03/A1, Full Professor, Analytical Chemistry

### **INSTITUTIONAL ROLES**

2024-now: Adjunct Professor of Biology in the College of Science and Technology of Temple University, Philadelphia, USA.

2022-now: Coordinator of the "Diffusion of Chemical Culture" interdivisional group of the Italian Chemical Society

2021-now: Member of the Management committee of "Bioelectronics" task-force at University of Naples "Federico II"

2020-now: Chair of the AMYC-BIOMED Conference

### **c) TEACHING EXPERIENCE:**

10/2021-now: "Analytical Chemistry (CHIM/01)" for Pharmacy, University of Naples "Federico II".

10/2022-now: "Biosensors and bioanalytical methods (CHIM/01)" for Quality Control, University of Naples "Federico II".

10/2019-now: "Environmental Chemometrics and Toxicology Data (CHIM/01)" for Environmental Chemical Toxicology Degree, University of Naples "Federico II".

10/2020-06/2021: "Analytical chemistry applied to evaluation of olive oil and wine quality (CHIM/01)" delivered to inmates at Secondigliano Penitentiary, University of Naples "Federico II".

### **d) CHRONOLOGY OF EMPLOYMENT AND RESEARCH EXPERIENCES**

04/2022-now: Associate Professor in Analytical Chemistry at Department of Pharmacy, University of Naples "Federico II". Biosensors for liquid biopsy

08/2022: Visiting Professor at Department of Bioengineering, University of Pennsylvania.

04/2019-04/2022: Assistant Professor in Analytical Chemistry at Department of Pharmacy, University of Naples "Federico II". Biosensors for clinical and environmental application

01/2019-04/2019: EU-MSCA Fellow at Institut Català de Nanociència i Nanotecnologia at Autonomous University of Barcelona, Spain (Prof. Merkoci). Point of Care for breast cancer diagnosis

01/2018-12/2018: Fondazione Umberto Veronesi Postdoc Fellow at University of Rome "Tor Vergata" (Prof. Palleschi). Paper-based point of care for cancer application

02/2018: Visiting Postdoc at University of the West of England, Bristol, UK (Prof. Killard). Paper-based for serum thrombin detection

06/2017: Visiting Postdoc at Chemnitz University of Technology, Chemnitz, Germany (Prof. Baumann). Printing biosensors for food application

01/2017-12/2017: Fondazione Veronesi Postdoc Fellow at University of Rome "Tor Vergata" (Prof. Palleschi). Point of care for cancer detection

06/2016-09/2016: Visiting Postdoc at University of California Santa Barbara, USA (Prof. Plaxco). DNA aptamer for drugs monitoring

01/2016-12/2016: Postdoc Fellow at University of Rome "Tor Vergata" (Prof. Moscone). Paper-based devices for clinical and industrial application

06/2014-12/2014: Visiting PhD at University of California San Diego, USA (Prof. Wang). Wearable devices

06/2013-12/2013: Visiting PhD at University of the West of England, Bristol, UK (Prof. Killard). Cholesterol diagnostics with biosensors

04/2012-06/2012: Visiting Researcher at Oulu University of Applied Science, Finland (Dr. Nissinen). Glucose strips for diabetes

### **e) RESEARCH ACTIVITIES:**

My research interests include the development of electrochemical sensors, Paper-Based devices, Nanomotors, and Nanomaterials, applied to user-friendly analytical chemistry in the clinical, pharmaceutical, environmental, and agri-food sectors. I am author of 110 articles, 6 chapters in books, and 2 proceedings, with an H-Index of 37, > 6000 citations.

Some of my research activities have been focused on:

- Development of a hand-held electrochemical microfluidic paper-based analytical device that enables the rapid detection of breast cancer, and other cancers e.g., lung, pancreas
- Development and characterization of tattoo-sensor to detect bio-markers in sweat;
- Development of sensors and biosensors based on the recognizing of biomarkers related to the occurrence of proteins, i.e., nFL chain, in blood of MS patients;
- Rare diseases;

- Paper-based colorimetric and electrochemical diagnostics;
- Chemometrics applied to sensors and biosensors.

**List of papers:** 110 papers. For brevity check the full list on [uninanobiosensors.com](http://uninanobiosensors.com)

**Participation to conferences:** I have been invited to present my research ca. 30 times (15 nationals, 15 internationals), and I have participated as speaker to 50 conferences in various countries (30 nationals, 20 internationals).

#### **f) EDITORIAL ACTIVITIES**

- ECS Journal of Solid State Science and Technology, ECS Journal of the Electrochemical Society - Sensor technical Editor
- Biosensors and Bioelectronics X (Elsevier) - Advisory Board Editor
- ACS Measurement Science au (ACS) - Editorial Board
- Chemistry Open (Wiley) - Early Career Advisory Board
- ECS Sensor Plus (IOPscience) - Editorial Board
- MethodsX (Elsevier) - Editorial Board
- Frontiers in Sensors (Frontiers) - Review Editor
- Frontiers in Analytical Science (Frontiers) - Review Editor

#### **g) PUBLIC ENGAGEMENT**

**TV:** Author of "Science behind the excellence" on Cusano Italia TV (Channel 264 DTT).

**Radio:** Radio guest, Radio Cusano Campus 89.1 FM, "Ethic and Label" and "Culture and Kitchen".

**Blog:** AbitareaRoma.net "Writing of educational essays regarding chemistry. Explanation of "everyday" phenomena from a chemical point of view", Skuola.net "Providing tips to study and understand chemistry for high school and university students."

**Books:** "**Chimica coatta**" Momo Edizioni, 2022; "**La chimica nel monolocale**" TAB Edizioni, 2022

January 2025

Stefano Cinti

