

Felice Carlo Simeone

Research Scientist

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I am a physical-chemist with a knack for nano. I worked in the USA, Germany, and the Netherlands, where I conducted research on nano-science and nanotechnology for energy production, electronics, biology. Currently, I work on the safety of nano-materials and design methods to control their toxicity. I am firmly convinced that Science is a process and not a clunk of inherited knowledge; aware of the limits of the frequentist statistics, I explore Bayesian approaches to scientific investigation. I think that clear scientific communication manifests sharp thinking and deep understanding, and that is why I spend a lot of time revising my papers and honing my talks.

Education

 <p>University of Ulm (Germany)</p>	<p>PhD in Natural Sciences (Physical Chemistry-Nano-Electrochemistry; cum laude) Advisor: Dieter M. Kolb</p> <p>Thesis: Local Modification and Characterization of Surfaces by the in-situ STM.</p>
 <p>UNIVERSITÀ DEGLI STUDI FIRENZE (Italy)</p>	<p>Laurea Degree (Bachelor of Science + Master) in Physical Chemistry. (Highest Grade.) Advisors: R. Guidelli; M. L. Foresti.</p> <p>Thesis: Electrochemical Behavior of Self-Assembled Monolayers on Single Crystals.</p>

Research experience

 <p>WAGENINGEN UR For quality of life (The Netherlands)</p>	<p>Wageningen University-RIKILT Institute Project Leader-Senior Scientist</p> <p><i>In collaboration with companies, I developed methods of analysis that combined material science and data science; I contributed to projects about the characterization of nano-particles in complex matrices.</i></p>
 <p>HARVARD UNIVERSITY (USA)</p>	<p>Dep. of Chemistry and Chemical Biology Postdoctoral Fellow</p> <p><i>As a member of the Whitesides' group, I investigated the effects of chemical functional groups on the electrical behavior of Self-Assembled Monolayers; I invented a method for rapid fabrication of nano-fibers electrodes; I used electrochemical techniques to study the metabolism of artificial tumors.</i></p> <p><i>In addition, I delved into Academic and Technical writing and attended the course "Innovation and Entrepreneurship" at the Harvard Business School, which gave me access to the Harvard i-Lab Incubator, where some of my friends launched their companies.</i></p>

 <p>C.N.R. Italian National Research Council</p>	<p>Institute for Nanostructured Materials Postdoctoral Fellow</p> <p><i>I investigated the electrical behavior organic semi-conductors; I exploited plasmonic resonance of nanoparticles in bio-sensing. I used Local Anodic Oxidation to pattern functional nanoparticles on semiconductive surfaces.</i></p>
 <p>University of Ulm (Germany)</p>	<p>Institute for Electrochemistry Research Associate</p> <p><i>As a member of the Kolb's group, I developed methods for the precise fabrication of nano-structured electro-catalysts for Hydrogen Evolution; I investigated faceting, self- assembling, reconstructions, and ionic adsorption at surfaces and interfaces; I resolved, down to the atomic scale, structures of electrified interfaces.</i></p>

Additional Trainings

Description	Institute
Effective Communication and Technical Writing. <i>Series of courses</i>	Harvard University-USA
Responsible and Ethical Conduct of Research	Harvard University-USA
Innovation and Entrepreneurship <i>Course designed for people with a scientific background.</i>	Harvard Business School-USA
Multivariate Data Analysis	CAMO Software
Bayesian Statistics	Autodidact

Languages

	Spoken	Written
English	Full professional proficiency	Full professional proficiency
Italian	Native speaker	Native speaker
German	Very Good	Good

Teaching

Organisation	Description
University of Ferrara (Italy)	Chemistry of nano-structured materials
University of Ulm (Germany)	Applied Physical-Chemistry and Surface Science