

INFORMATION**Ilaria Zanoni**

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Phone +39 0546 69777
Nationality Italiana
Born 02/09/1992

PRESENT POSITION**11/11/2019 – now Post-Doc fellowship**

at ISTECCNR, under the supervision of Dr. Anna Luisa Costa (ISTEC) and as part of the PROTECT H2020-NMBP-PILOTS-2016 research program, No. 720851-2.

Address

ISTEC-CNR: Via Granarolo, 64 - 48018 Faenza (Italy)

EDUCATION**01/11/2016 – 20/02/2020 Ph. D. fellow – XXXII Cycle**

at the Clinical Department of Surgical Medical Sciences and Health of the University of Trieste in collaboration with ISTECCNR, under the supervision of Prof. Francesca Larese Filon (University of Trieste) and Dr. Anna Luisa Costa (ISTEC). Prot. ISTECCNR N. 0000044 of 12/01/2017.

Title of the doctoral project: "Design and characterization of nanomaterials for monitoring of their biological reactivity"

Addresses: University of Trieste, University Department: Strada di Fiume, 447 - 34149 Trieste (Italy); ISTECCNR: Via Granarolo, 64 - 48018 Faenza (Italy)

10/2014 – 10/2016 Master's degree in Industrial Chemistry (LM-71)

at Alma Mater Studiorum University of Bologna (Italy)
Evaluation 110/110 and Praise

"Encapsulation of organometallic and lanthanoid complexes with silica and development as markers of ceramic substrates" supervisor: Prof. Stefano Stagni; co-supervisor: Dr. Anna Luisa Costa, Magda Blosi, Simona Orтели (ISTEC-CNR), Valentina Fiorini (University of Bologna)

Master's curricular internship at the Department of Industrial Chemistry "Toso Montanari", University of Bologna, in collaboration with ISTECCNR of Faenza (10/2015 - 10/2016)

09/2011–10/2014 Bachelor's Degree in Chemistry and Technologies for the Environment and Materials, Curriculum: Traditional and Innovative Materials (L-27)

at Alma Mater Studiorum University of Bologna (Italy)
Evaluation 110/110 and Praise

"Optimization of a basic ceramic mixture for porcelain stoneware through the use of an experimental statistical method (DOE - Design of Experiments)" supervisor: Prof. Stefano Stagni; co-supervisor: Dr. Stefano Maretti

Curricular internship at the SACMI Imola S. C. company, Imola (04/2014 - 06/2014)

WORK EXPERIENCE

- 13/08/2018 – 25/11/2018 Research period abroad - University of South Carolina (USA)**
at the Center for Environmental Nanoscience and Risk (CENR) - Arnold School of Public Health within the University of South Carolina (USA) for research and a collaborative internship in the field of nanotechnology and nano-safety under the supervision of Dr. Jamie Lead, Director of CENR, and in collaboration with ISTECCNR, within the European PATROLS project (n ° 760813 NMBP-2016-2017). Prot. ISTECCNR N. 0001951 of 09/25/2019.
Skills acquired: independent operator for the use of Single Particle and Single Cell ICP-MS equipment (SP / SC-ICP-MS)
- 24/07/2017 – 28/07/2017 Research period abroad - FORTH (Greece)**
at the FORTH Center - Foundation for Research and Technology Hellas, Division of Laser Interactions and Photonics, in Heraklion (Greece) for the development of the NFFA-EU ID-298 project "Characterization of nanostructured luminescent textiles and their interaction with biological targets". Supervisor: Dr. Sotiris Psilodimitrakopoulos.
Prot. ISTECCNR N. 0001951 of 09/25/2019.
- 10/07/2017 – 14/07/2017 Research period abroad - ICN2 and CSIC-ICMAB (Spain)**
at the Fundacio Institut Català de Nanociència i Nanotecnologia (ICN2) and the Consejo Superior de Investigaciones Científicas - Institut de Ciència de Materials de Barcelona (CSIC-ICMAB) at the UAB Campus, Bellaterra (Spain) for the development of the NFFA project EU ID-298 "Characterization of nanostructured luminescent textiles and their interaction with biological targets". Supervisor: Dr. Vidal Gancedo José and Dr. Belén Ballesteros.
Prot. ISTECCNR N. 0001951 of 09/25/2019.
- 21/06/2017 – 23/06/2017 Research period abroad - University of Wageningen (Holland)**
at Wageningen University - RIKILT in Wageningen (Holland) for preliminary training in the use of Single Particle-ICP-MS (SP-ICP-MS) instrumentation.
- 11/2015 – 11/2016 Tutor of the Bachelor's Degree Course in Chemistry and Technologies for the environment and materials (L-27)**
Main tasks:
- tutoring, preparatory and recovery activities
- collaboration in the coordination of students' surveys on teaching and investigations on possible employment opportunities for graduating students
- collaboration with the secretary of the degree course
- 11/2014 – 11/2015 Tutor of the Bachelor's Degree Course in Chemistry and Technologies for the environment and materials (L-27)**
Main tasks:
- tutoring, preparatory and recovery activities
- collaboration in the coordination of students' surveys on teaching and investigations on possible employment opportunities for graduating students
- collaboration with the secretary of the degree course
- 10/2013 – oggi Theatrical mask**
at the A. Masini theater in Faenza with contract on call through the Coop service cooperative. Activate S.C. Arl.
Main tasks:
- person in charge in public management (max 500 people),
- responsible for first aid and fire fighting

PRICE

- Projects** Call winner for JRC Open Lab proposal (2019-1-RD-NanoBiotech)
Winner of the Call NFFA.EU project (section I, year 2017) with the project ID-298 "Characterization of nanostructured luminescent textiles and their interaction with biological targets"
- Contests** Winner of the European selection for the first nano-Olympiad "The First International Nanotechnology Olympiad" (INO 2018). <https://statnano.com/event/1309>

PUBLICATIONS

- h-index: 3 (Scopus)
1. "CuO nanoparticles penetration through intact and damaged human skin". I. Zanoni, M. Crosera, S. Ortelli, M. Blosi, G. Adami, F. Larese Filon, A. L. Costa, *New Journal of Chemistry*, **43**, **2019**, 17033-17039.
 2. "Innovative synthesis of nanostructured composite materials by a spray-freeze drying process: efficient catalysts and photocatalysts preparation". A. Lolli, M. Blosi, S. Ortelli, A. L. Costa, I. Zanoni, F. Carella, D. Bonincontro and S. Albonetti, *Catalysis Today*, **2019**, **334**, 193 - 202.
 3. "NanoTiO₂@DNA complex: a novel eco, durable, fire retardant design strategy for cotton textiles". S. Ortelli, G. Malucelli, M. Blosi, I. Zanoni and A.L. Costa, *Journal of Colloid and Interface Science*, **2019**, **546**, 174-183.
 4. "Encapsulation of cationic iridium(III) tetrazole complexes into a silica matrix: synthesis, characterization and optical properties". I. Zanoni, V. Fiorini, M. Rosado, B. Ballesteros, M. Androulidaki, M. Blosi, S. Ortelli, S. Stagni, M. Dondi and A. L. Costa, *New Journal of Chemistry*, **2018**, **42**, 9635-9644.
 5. "Coatings made of proteins adsorbed on TiO₂ nanoparticles: a new flame retardant approach for cotton fabrics". S. Ortelli, G. Malucelli, F. Cuttica, M. Blosi, I. Zanoni and A. L. Costa, *Cellulose*, **2018**, **25**(4), 2755-2765.
 6. "Methylation of Ir(III)-tetrazolato complexes: an effective route to modulate the emission outputs and to switch to antimicrobial properties". V. Fiorini, I. Zanoni, S. Zacchini, A. L. Costa, A. Hochkoepler, V. Zanotti, A. M. Ranieri, M. Massi, A. Stefan and S. Stagni, *Dalton Transaction*, **2017**, **46**, 12328.

PRESENTATIONS

- Oral
- "Synthesis and characterization of luminescent silica". I. Zanoni, A. L. Costa, WCCE 2019 - 3rd World Chemistry Conference And Exhibition, June 13-15, 2019, Brussels, Belgium. (invited)
 - "Nano-photo-induced-self-marker systems". I. Zanoni, Second NFFA Europe Science Workshop, February 20-21, 2019, Milan, Italy. (invited)
- Poster
- "Silver nanoparticles 300K characterization in biological compartments for high and low exposure range". I. Zanoni, PATROLS 2018 General Assembly, December 4-5, 2018, Faenza, Italy;
 - "Silver nanoparticles 300K characterization in biological compartments for high and low exposure range". I. Zanoni, JRC Summer School on "Non-Animal Approaches in Science: Challenges and Future Directions", May 21-24, 2019, Ispra, Italy.

TECHNICAL SKILLS

Scientific operator of the research activity at the Nanotechnologies and NanoSafety department at ISTEC-CNR within the European research projects PATROLS (N. 760813), BIORIMA (N. 760928), PROTECT (N. 720851-2) and NANOINFORMATIX (No. 814426) within the research areas of safe-by-design and nano-safety. Prot. ISTEC-CNR N. 0001951 of 09/25/2019.

Responsible for scientific disclosure and data management for ISTEC-CNR (Work Package (WP) 1 leader) within the European PATROLS project. Prot. ISTEC-CNR N. 0001951 of 09/25/2019.

Independent operator for characterization techniques such as DLS / ELS, FEG-SEM (with EDX probe), ICP-OES, ICP-MS (with SP and SC applications), FT-IR, Spectrophotometer and Spectrofluorimeter. Good knowledge of MatLAB calculation programs and DOE (Design Of Experiments) statistical analysis.

TRAINING ACTIVITY

Training and support for the scientific activity of three-year, master and doctoral students in ISTECCNR: supervisor of 1 three-year thesis at the University of Bologna, Bachelor's degree in Chemistry and Technologies for the environment and materials, supervisor of 1 master thesis at the University of Bologna, Master of Science in Industrial Chemistry, tutor of 1 foreign student for international exchange from the Sorbonne University, degree in Chemistry (Paris - France).

Actively involved in the scientific dissemination to children and students during the opening days of the institute and as scientific responsible for the Docenze-Laboratori_PG PON_Torricelli project in collaboration with the Torricelli High School in Faenza. Prot. ISTECCNR N. 0000188 of 01/02/2019 and

PERSONAL SKILLS

MOTHER TONGUE **ITALIAN**

OTHER **ENGLISH**

Reading VERY GOOD

Writing GOOD

Speaking EXCELLENT

FRANC AND SPANISH

Reading ELEMENTARY

Writing ELEMENTARY

Speaking ELEMENTARY

RELATIONAL SKILLS Good communication skills developed during the recent experiences of international exchange, during the part-time activity as a mask of the Teatro Comunale Masini in Faenza with the public and theater companies, and the course of studies through group experiences in the laboratory and during internships at the various national and foreign institutions I went to.

ORGANIZATIONAL SKILLS Excellent organizational and managerial skills developed by coordinating an NFFA project in 2017 involving six institutes between Italy, Spain and Greece.
During the doctoral period I had the opportunity to assist, coordinate and manage the preparation of teleconferences and meetings for the organization of the European PATROLS, BIORIMA, PROTECT and NANOINFORMATIX projects.

DRIVING LICENCE AND VARIOUS LICENSES Driving license B
First aid license
Medium-high risk fire license

Aware that, pursuant to art. 76 of the Presidential Decree 445/2000, false declarations, falsehood in the deeds and use of false deeds are punished pursuant to the Criminal Code and the special laws in force on the matter, declares under her own responsibility that what stated in the following curriculum Vitae et Studiorum corresponds to truth.

The undersigned authorizes the processing of the data contained in this Curriculum pursuant to Regulation (EU) 2016/679.

Faenza, 29/03/2020  _____

Ilaria Zanoni