



SIYAO XIAO

Work : NanoDelivery Lab Department of Molecular Medicine Sapienza University of Rome, 00185, Rome, Italy

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Gender: Female

ABOUT ME

An industrial PhD student with a strong foundation in biological sciences, currently pursuing doctoral research focusing on the application of fluorescence lifetime technology to study micro- and nano-plastics. Proficient in interdisciplinary research to address micro- and nano-plastics' environmental and health risks.

EDUCATION AND TRAINING

[01/2021 – Current] **Ph.D. Candidate in Biology and Molecular Medicine**

Sapienza University of Rome

City: Rome | **Country:** Italy | | **Thesis:** Detection of Micro- and Nano- Plastics in Water and Assessment of their Potential Health Effects

[10/2019 – 10/2021] **Master's Degree in Biological Sciences**

University of Camerino

City: Camerino | **Country:** Italy | | **Final grade:** 110/110 cum laude | **Thesis:** Development of DNA Vaccines against SARS-CoV-2 variants.

[09/2014 – 02/2020] **Bachelor's Degree in Biology and Biotechnology**

University of Camerino (Italy) & Jilin Agriculture University (China)

LANGUAGE SKILLS

Mother tongue(s): Chinese

Other language(s):

English

LISTENING B2 READING B2 WRITING B2

SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2

Italian

LISTENING A1 READING A1 WRITING A1

SPOKEN PRODUCTION A1 SPOKEN INTERACTION A1

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

COMMUNICATION AND INTERPERSONAL SKILLS

Communication skills

Good communication skills gained through my participation in scientific conferences, seminars and symposia.

DIGITAL SKILLS

My Digital Skills

Data analysis (FlowJo, exc.) and statistical analysis (GraphPad Prism) | Microsoft Office

EXPERIENCES

[07/2023 – 11/2023]

Experiences

International visiting PhD student at the Immunology Laboratory of UCL Great Ormond Street Institute of Child Health (University College London) under the supervision of Prof. Tessa Crompton.

CONFERENCES AND SEMINARS

[02/09/2024 – 07/09/2024]

The Next Generation of Nanomedicine Rüdeshheim am Rhein (Germany)

Poster presentation.

[22/03/2023 – 30/06/2023]

Science communication: sharing knowledge and creating connections

Madrid (Spain)

BIP Program Course.

PUBLICATIONS

[2024]

[Fast and portable fluorescence lifetime analysis for early warning detection of micro- and nanoplastics in water](#)

[2024]

[Protein corona alleviates adverse biological effects of nanoplastics in breast cancer cells](#)

[2023]

[Enhancing Immune Responses against SARS-CoV-2 Variants in Aged Mice with INDUK: A Chimeric DNA Vaccine Encoding the Spike S1-TM Subunits](#)

[2022]

[Insights into the effect of polyethylene terephthalate \(PET\) microplastics on HER2 signaling pathways](#)

[The protein corona reduces the anticancer effect of graphene oxide in HER-2-positive cancer cells](#)