

# SPERANZA CLAUDIA PANICO

**Email:** [spe.panico@gmail.com](mailto:spe.panico@gmail.com); [speranzaclaudia.panico@unina.it](mailto:speranzaclaudia.panico@unina.it)

**Birth date:** 10 July, 1990

**Current location:** Berlin, Germany

**ResearchGate:** Speranza C. Panico

## Current Position

### February 2023 – University of Udine, Italy

3 years Post-Doc Research fellowship: Assessment of Soil Carbon Storage in Forest Ecosystems.  
Founded by: European Union - Next generation EU and National Biodiversity Future Center (NBFC)

## Work experience

### September 2022 / December 2022 – Umweltbundesamt (UBA), Berlin

Traineeship at the stream and pond facility (FSA) of the German environment agency (UBA)  
Project Horaizon2020 AQUACOSM+: “Risk assessment of fungicides on non-target organisms in aquatic mesocosms”  
*Advisor: Dr. Silvia Mohr*

### March 2022 / September 2022 – European Chemicals Agency (ECHA), Helsinki

- Training in the main process of active substance approval and Union authorization;
- Scientific and administrative support in ECHA activities in regards to biocides approval;
- Scientific support in the development of assessment methodologies for active substances;
- Contribution and participation at the Working Groups (WGs) of the Biocidal Products Committee (BPC);
- Guidance development, including a guidance on the assessment of risk for bees and other pollinators to biocidal product;
- Assessment of Technical Equivalence applications;
- Ecotoxicology and risk assessment of biocidal active substances and products.

### April/October 2020 - Naples/Bruxelles

Scientific coordinator for Nisida Environment & IDRABEL biotechnology working closely with customers to design and implement environmental remediation projects.

- Managing database and case studies for producing regular progression reports about the application of the bio technology;
- Good experience in writing EU LIFE 2020 funding project (SEDREMED and SuWater)
- Scientific support in communication activities on social networks (LinkedIn, Facebook, Twitter)

## Academic background

### 2017-20 PhD in Ecology at University of Naples “Federico II”, Faculty of Science

Thesis project: “Effects of Anthropogenic Impact on Soil Abiotic and Biotic Properties”  
*Advisors: Dr. Anna De Marco and Dr. Giulia Maisto*

### 2019 Visiting at Vrije Universiteit (VU) of Amsterdam, Department of Ecological sciences (6 months)

Project: "Ecotoxicological bioassays on soils invertebrates to assess the toxicity of pesticides mixture in conventional agriculture" *Advisor: Dr. Kees Van Gestel*

**2018 Visiting at University of Florence,  
Department of Agriculture, Food, Environment and Forestry (2 months)**

Project: "Effects of different vegetation types on burnt soil properties and microbial communities" *Advisors: Dr. Giacomo Pietramellara and Dr. Mariateresa Ceccherini*

**2016-17 Scholarship at University of Naples "Federico II",  
Faculty of Science**

Project: "Anthropic impact derived by tourism in protected areas: interference on territory and biodiversity-PedoInc" *funded by The Italian Ministry of the Environment, the Care of the Land and the Sea*

**2013-15 Master Degree in Biology at University of Naples "Federico II",  
Faculty of Science**

Thesis Project: "Biochemical and molecular study of chestnut biodiversity in Roccamonfina and Foce Garigliano Park (IT)" *in collaboration with National Research Council of Naples*  
110/110 cum laude

**2011-13 Bachelor Degree in Biology at University of Naples "Federico II",  
Faculty of Science**

Thesis Project: "Microalgal culture in flat bioreaction for Biodiesel production"  
110/110 cum laude

**Languages**

- Italian mother tongue
- Excellent knowledge of English
- Excellent knowledge of Spanish
- Basic knowledge of German and French

**Recent publications on ISI Journal**

(Total 24, H- index 7)

- 1) **Panico, S.C.**, C.A.M. van Gestel, R. A. Verweij, M. Rault, C. Bertrand, C. A. Menacho Barriga, M. Coeurdassier, C. Fritsch, F. Gimbert, C. Pelosi. 2022 Field mixtures of currently used pesticides in agricultural soil pose a risk to soil invertebrates. *Environmental Pollution* 305, 119290  
<https://doi.org/10.1016/j.envpol.2022.119290>
- 2) De Marco, A., **Panico, S.C.**, Memoli, V., Santorufo, L., Zarrelli A., Barile R., Maisto, G. 2022. Differences in soil carbon and nitrogen pools between afforested pine forests and natural shrublands in a Mediterranean area. *Applied Soil Ecology* 170, 104262.  
<https://doi.org/10.1016/j.apsoil.2021.104262>
- 3) **Panico, S.C.**, Memoli, V., Santorufo, L., Aiello S., Barile, De Marco, A., Maisto, G. 2022. Soil Biological Responses under Different Vegetation Types in Mediterranean Area. *International Journal of Environmental Research and Public Health* 19,903. <https://doi.org/10.3390/ijerph19020903>
- 4) Santorufo, L., Memoli, V., **Panico, S.C.**, Santini, G., Barile, R., Di Natale, G., Trifuoggi, M., De Marco, A., Maisto, G. 2021. Early post-fire changes in properties of Andosols within a Mediterranean area. *Geoderma* 394,115016. <https://doi.org/10.1016/j.geoderma.2021.115016>
- 5) **Panico, S.C.**, Memoli, V., Santorufo, L., Esposito, F., De Marco, A., Barile, R., Maisto, G., 2021. Linkage Between Site Features and Soil Characteristics Within a Mediterranean Volcanic Area. *Frontiers in Forests and Global Change* 3:621231. doi: 10.3389/ffgc.2020.621231.

6) **Panico, S.C.**, Ceccherini, M.T., Memoli, V., Maisto, G., Pietramellara, G., Barile, R., De Marco, A., 2020. Effects of different vegetation types on burnt soil properties and microbial communities. *International Journal of Wildland Fire* 29(7), 628-636. doi: 10.1071/WF19081.

### **Others scientific publication**

Hätönen M., Kantner C., Lopez i Losada R., Ludwig N., Benavent González A., Caroline Riedhammer C., Kunz P., **Panico S. C.**, Laakkonen E., Parramon Dolcet L., Vangheel M., Carlon C., Gutierrez Alonso S., 2022. European arthropods and their role in pollination: scientific report of their biodiversity, ecology and sensitivity to biocides. ECHA.

### **Participation in scientific meetings**

**2020 on line congress- Society of Environmental Toxicology and Chemistry** with poster: Pelosi C., Bertrand C., Fritsch C., Verweij R., **Panico S. C.**, van Gestel C.A.M. "A combined field and laboratory approach to assess pesticide effects on soil invertebrates".

**2018 Cagliari - Congress of Italian Society of Ecology** with oral communications:

**Panico S.C.**, Memoli V., Esposito F., Maisto G., Barile R., De Marco A. "The influence of environmental factors on soil characteristics".

**2018 Royat - France ACE (Association of Chemistry and Environment)** with poster:

**Panico S.C.**, Memoli V., Esposito F., Maisto G., Barile R., De Marco A. "Microclimatic conditions, vegetation cover and human impact as drivers of soil quality".

**2017 Vienna - Congress of European Geosciences Union (EGU)** with Pico- oral presentation:

**Panico S.C.**, Memoli V., Maisto G., De Marco A. "Soil quality in degraded urban area around the Fusaro lake within Campi Flegrei Area".

**2017 Naples - Congress of Italian Society of Ecology** with posters:

Napoletano P., **Panico S.C.**, Memoli V., Esposito F., Colombo C., Maisto G., De Marco A. "Variation of the characteristics of technosols after seven years from the mesocosm setting up".

**2017 Naples - Congress of Italian Society of Ecology** with oral communication:

**Panico S.C.**, Memoli V., Esposito F., Maisto G., De Marco A. "Soil quality of two Mediterranean areas affected by different human managements".

**2017 Florence - Congress of Italian Society of Soil Sciences** with posters:

**Panico S.C.**, Memoli V., Esposito F., Maisto G., Barile R., De Marco A. "Characterization of soils subjected to different tourist impact in the Vesuvius National Park".

**2016 Milan, Bicocca University - Congress of Italian Society of Ecology** with poster:

Memoli V., **Panico S. C.**, Esposito F., De Marco A., Arena C., Maisto G. "Soil quality along two roads of the Vesuvius National Park exposed to different vehicular traffic".

### **Other scientific activities**

Editorial Guest for the Special Issue of the *International Journal of Environmental Research and Public Health*: "*Organisms as Bioindicators of Soil Quality in Human Affected Environments*"

### **Other skills**

- Extensive knowledge of Microsoft Office (Excel, Word and Power Point);
- Good knowledge of R software;
- Good analytical and IT skills;
- Proficient in statistical analysis and strong ability to process data on environmental issues;
- Proactive attitude;
- Excellent ability in team-working;
- Strong capacity to manage multiple projects;
- An eye for detail;
- Goal-orientation;
- Good communication and interpersonal skills;
- Aptitude for team work;
- Comprehensive knowledge of communication tools.

## **Volunteer activity**

**2020** Scientific social media communicator for “Un Futuro per Bagnoli” documentary supporting crowdfunding campaign;

**2019** LIFE ESC 360: Monitoring of forest biodiversity in the Italian Natura 2000 Network;

**2017** Organization of the national Congress of Italian Society of Ecology, Naples;

**2015/18** After school for children at “Je so’ Pazzo”, Naples.