

EUROPEAN  
CURRICULUM VITAE  
FORMAT



**PERSONAL INFORMATION**

Name **SOLVEIG TOSI**

Address **DIPARTIMENTO DI SCIENZE DELLA TERRA E DELL'AMBIENTE, UNIVERSITA' DEGLI STUDI DI PAVIA  
VIA S. EPIFANIO 14, 27100 PAVIA**

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E-mail **solveig.tosi@unipv.it**

Nationality Italian

Date of Birth 20/09/1963

Gender female

**WORK EXPERIENCE**

- Dates (from - to) January 2021 - today
- Name and address of the employer Università degli Studi di Pavia Dipartimento di Scienze della Terra e dell'Ambiente
  - Type of business or sector
  - Occupation or position held **Full professor – Systematic Botany (BIO/02)**
- Main activities and responsibilities Teaching, Research, member of PhD council, President of professor council of Natural Science Degree Course
  
- Dates (from - to) November 2014 – December 2020
- Name and address of the employer Università degli Studi di Pavia Dipartimento di Scienze della Terra e dell'Ambiente
  - Type of business or sector
  - Occupation or position held **Associate professor – Systematic Botany (BIO/02)**
- Main activities and responsibilities Teaching, Research, President of professor council of Natural Science Degree Course, member of PhD council
  
- Dates (from - to) December 1998 – October 2014
- Name and address of the employer Università degli Studi di Pavia Dipartimento di Ecologia del Territorio e degli Ambienti Terrestri
  - Type of business or sector
  - Occupation or position held **Researcher – Systematic Botany (BIO/02)**
- Main activities and responsibilities Research, Teaching
  
- Dates (from - to) November 1992 – November 1998
- Name and address of the employer Università degli Studi della Tuscia, Viterbo
  - Type of business or sector
  - Occupation or position held **Botanical Garden Technician**
- Main activities and responsibilities Research assistance

**EDUCATION AND TRAINING**

- Dates (from - to) September 1988 - February 1989

- Name and type of organisation providing education and training
- Principal subjects/occupational skills covered
- Title of qualification awarded
- Dates (from - to)
- Name and type of organisation providing education and training
- Principal subjects/occupational skills covered
- Title of qualification awarded

Biology Institute, Department of Zoology and Marine Chemistry, University of Oslo (Norway)

Research, study on heavy metal bioaccumulation

**Associate researcher with a grant of National Council of Norwegian Research**

Academic year from 1982-83 to 1986-87

Università degli Studi di Roma "La Sapienza"

Experimental degree thesis on the Study of the shrimp reproduction

**Graduate in biology**

**PERSONAL SKILLS AND COMPETENCES**

MOTHER TONGUE  
OTHER LANGUAGES

ITALIAN  
ENGLISH

SCIENTIFIC SKILLS  
AND COMPETENCES

*Living and working with other people, in multicultural environments, in positions where communication is important and situations where teamwork is essential (for example culture and sports), etc.*

- Research interests (5 Key words): fungal biodiversity, mycoremediation, beneficial fungi for plants and soil, organic matter degradation, biological control agents
- Author of 57 publications on Scientific Journals.
- Lecturer of 43 academic courses or modules since the academic year 2003-2004 (i.e. Systematic Botany, Botany, Mycology, Microbial biodiversity). Lecturer for the PhD course in Earth and Environmental Sciences of Pavia University from 2013 to 2017.
- Organization and Communication at national and international congresses. More than 50
- Supervisor of more than 100 university theses (bachelor's and master's); scientific tutor of 6 doctoral theses.
- Teaching abroad: "The Kingdom of Fungi: Biology and Taxonomy" and "Introduction to Applied Mycology" at the University of Quito and Loja (Ecuador); Conference Cycles on Botanical Topics for the Dante Alighieri Association of Norway.

RELEVANT ROLES AND  
COMPETENCES

- Appointed as a member of the Commission for the award of the National Scientific Qualification 2023-2025 to the functions of full and associate Professor for 05/A1-BOTANICA.
- President of professor council of Natural Science Degree Course Bachelor and Master, member of PhD council
- Coordinator of the following projects as principal investigator or working package leader. The most important ones:
- 2019-2023: Programma Nazionale di Ricerca in Antartide. Title "MicrobioMA-S. Funding body: MIUR -FIRST.. Role: Principal Investigator
- 2019-2023 ASI n° DC-VUM-2017-080 "Bando di Ricerca per missioni future di esplorazione umana dello spazio - Area tematica "Sistemi Biorigenerativi", Principal Investigator Stefania De Pascale. Funding body Italian Space Agency. Role: U.O. Coordinator;
- "Catalase in Antarctic fungi: antioxidant role, localization, regulation and properties" funding body: Bulgarian Ministry of Education and Science. U.O. coordinator
- "CE4WE" (Circular Economy for water and energy). Funding body: Lombardy Region, 2020-23. Role: participant
- Responsible of the research funded by ENI with title "Creazione di una collezione di ceppi fungini con capacità biodegradativa di molecole inquinanti e studio del loro potenziale uso per attività di bioremediation". Role : coordinator
- "Agromatrici Bioattive" Progetti di Ricerca industriale e sperimentale. Funding Body Lombardy Region and MIUR.Decreto 7128 luglio 2011. Role: participant

PUBLICATION INDEXES (SCOPUS)

- NUMBER OF PUBLICATIONS: 57
- TOTAL NUMBER OF CITATIONS: 1233
- H-INDEX: 21

10 MOST RELEVANT  
PUBLICATIONS  
*In the last 10 years.*

1. Cognigni, F., Temporiti, M.E.E., Nicola, L. et al. Exploring the infiltrative and degradative ability of *Fusarium oxysporum* on polyethylene terephthalate (PET) using correlative microscopy and deep learning, 2023. *Sci Rep* 13, 22987. <https://doi.org/10.1038/s41598-023-50199-w>
2. Vezzola, M., Tosi, S., Doria, E., (...), Alvaro, M., Sanfilippo, A., 2023. Interaction between a Martian Regolith Simulant and Fungal Organic Acids in the Biomineralization Perspective. *Journal of Fungi*, 9(10),976.
3. Ciaramelli, C., Palmioli, A., Brioschi, M., (...), Zucconi, L., Airoidi, C., 2023. Antarctic Soil Metabolomics: A Pilot Study. *International Journal of Molecular Sciences* 24(15),12340
4. Temporiti, M.E.E.; Nicola L.; Girometta C.E.; Roversi A.; Daccò C.; Tosi S. 2022. The Analysis of the Mycobiota in Plastic Polluted Soil Reveals a Reduction in Metabolic Ability. *Journal of Fungi* 1247
5. Delgado, E.F.; Valdez, A.T.; Covarrubias, S.A.; Tosi, S.; Nicola, L. Soil Fungal Diversity of the Aguarongo Andean Forest (Ecuador). *Biology* 2021, 10, 1289. <https://doi.org/10.3390/biology10121289>.
6. Nicola, L.; Landínez-Torres, A.Y.; Zambuto, F.; Capelli, E.; Tosi, S. The Mycobiota of High Altitude Pear Orchards Soil in Colombia. *Biology* 2021, 10, 1002. <https://doi.org/10.3390/biology10101002>.
7. Daccò C., Nicola L., Temporiti M.E.E., Mannucci B., Corana F., Carpani G., Tosi S., 2020. Trichoderma: Evaluation of its degrading abilities for the bioremediation of hydrocarbon complex mixtures. *Applied Sciences*, 10, 3152; doi:10.3390/app10093152.
8. Daccò, C., Girometta, C., Asemoloye, M.D., Carpani, G, Picco, A.M., Tosi, S., 2020. Key fungal degradation patterns, enzymes and their applications for the removal of aliphatic hydrocarbons in polluted soils: A review. *International Biodeterioration and Biodegradation* 147, doi:10.1016/j.ibiod.2019.104866.
9. Landinez-Torre A, Panelli S, Picco AM, Comandore F, Tosi S, Capelli E, 2019. A meta-barcoding analysis of soil mycobiota of the upper Andean Colombian agro-environment. *Scientific Reports* volume 9, Article number: 10085. [doi.org/10.1038/s41598-019-46485-1](https://doi.org/10.1038/s41598-019-46485-1).
10. Spina F., Cecchi G., Landinez-Torres A., Pecoraro L., Russo F., Wu B., Cai L., Liu X.Z., Tosi S., Varese G.C., Zotti M., Persiani A.M., 2018. Fungi as a toolbox for sustainable bioremediation of pesticides in soil and water. *Plant Biosystems*, 152: 474-488.
11. Panelli S., Comandatore F., Landinez-Torres A., Granata M.U., Tosi S., Picco A.M., 2017. A metagenomic-based, cross-seasonal picture of fungal consortia associated with Italian soils subjected to different agricultural managements. *Fungal Ecology* 30: 1-9.

PATENTS

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**According to law 679/2016 of the Regulation of the European Parliament of 27th April 2016, I hereby express my consent to process and use my data provided in this CV**

Pavia, 12/01/2024

Solveig Tosi