

EUROPEAN
CURRICULUM VITAE
FORMAT



PERSONAL INFORMATION

Name	ISABELLA GANDOLFI
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Nationality	Italian
Gender	female

WORK EXPERIENCE

- | | |
|--|---|
| <ul style="list-style-type: none">• Dates (from - to) | November 2024 – today |
| <ul style="list-style-type: none">• Name and address of the employer | University of Milano-Bicocca – Department of Earth and Environmental Sciences |
| <ul style="list-style-type: none">• Type of business or sector | |
| <ul style="list-style-type: none">• Occupation or position held | Associate Professor – General Microbiology (Italian Academic Field: BIOS-15/A) |
| <ul style="list-style-type: none">• Main activities and responsibilities | |
| <ul style="list-style-type: none">• Dates (from - to) | November 2021 – October 2024 |
| <ul style="list-style-type: none">• Name and address of the employer | University of Milano-Bicocca – Department of Earth and Environmental Sciences |
| <ul style="list-style-type: none">• Type of business or sector | |
| <ul style="list-style-type: none">• Occupation or position held | Researcher (RTDb) – General Microbiology (Italian Academic Field: BIO/19) |
| <ul style="list-style-type: none">• Main activities and responsibilities | |
| <ul style="list-style-type: none">• Dates (from - to) | March 2019 – October 2021 |
| <ul style="list-style-type: none">• Name and address of the employer | University of Milano-Bicocca - Department of Earth and Environmental Sciences |
| <ul style="list-style-type: none">• Type of business or sector | |
| <ul style="list-style-type: none">• Occupation or position held | Researcher (RTDa) – General Microbiology (Italian Academic Field: BIO/19) |
| <ul style="list-style-type: none">• Main activities and responsibilities | |
| <ul style="list-style-type: none">• Dates (from - to) | January 2008 – February 2019 |
| <ul style="list-style-type: none">• Name and address of the employer | University of Milano-Bicocca - Department of Earth and Environmental Sciences |
| <ul style="list-style-type: none">• Type of business or sector | |
| <ul style="list-style-type: none">• Occupation or position held | Post Doc – General Microbiology (Italian Academic Field: BIO/19) |
| <ul style="list-style-type: none">• Main activities and responsibilities | |

EDUCATION AND TRAINING

- | | |
|--|---|
| <ul style="list-style-type: none">• Dates (from - to) | 2004 – 2007 |
| <ul style="list-style-type: none">• Name and type of organisation providing education and training | University of Milano-Bicocca |
| <ul style="list-style-type: none">• Principal subjects/occupational skills covered | Development of innovative biological technologies for mercury removal from environmental contaminated media |
| <ul style="list-style-type: none">• Title of qualification awarded | Ph.D. in Environmental Sciences |

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

September 2006 – January 2007
ETH Zurich, Switzerland

Assessment of microbial methane oxidation using in situ techniques and column studies of methanotrophic activity

FEMS Research Fellowship

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

1998 - 2004
University of Milano-Bicocca

Experimental thesis: "Bioremediation of PAH-contaminated soils in slurry phase bioreactors"

Graduated ("Laurea quinquennale") in Environmental Sciences

PERSONAL SKILLS AND COMPETENCES

MOTHER TONGUE
OTHER LANGUAGES

ITALIAN
ENGLISH (C1)

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 keywords): environmental microbiology, microbial ecology, microbiomes, urban microbial biodiversity, bioremediation.
- Scientific skills:
 - o excellent expertise in the analysis of microbiomes by state-of-the art molecular techniques;
 - o good knowledge of bioinformatics pipelines for the analysis of big data from high-throughput sequencing platforms;
 - o good knowledge of bioremediation technologies applied to hydrocarbon removal from environmental matrices, and of bacterial biosurfactant production and potential applications;
 - o expertise in the study of ecological processes that are responsible for the structure and functions of bacterial communities in several anthropic and pristine environments.
- Author of 43 publications (of which 41 with IF) on Scientific Journals.
- Author of 12 chapters of books with ISBN.
- Communications at national and international congresses (approximately 100 communications).
- 2018: habilitated to Associate Professor in Microbiology (Italian SC: 05/I2).

RELEVANT ROLES AND COMPETENCES

Coordination and administration of people, projects and budgets; at work, in voluntary work (for example culture and sports) and at home, etc.

- Actively involved in several research projects as member of the principal investigator unit or working package unit. The three most recent ones:
 - o 2025-2026 – ECORoads – Innovative barriers for mitigation of noise and Chemical pollution from Roads, PON 2014-2020, (cod. ARS01_00752), funded by MIUR. Scientific project coordinator.
 - o 2022-2025 – National Recovery and Resilience Plan (PNRR) – National Biodiversity Future Center (NBFC), Spoke 5 – Urban Biodiversity. Member of the UNIMIB unit (University of Milano-Bicocca).
 - o 2022-2025 – Development of a product consisting of biologically activated biochar to be used for the remediation of hydrocarbon-contaminated soils, Joint Research Agreement ENI-BICOCCA. Responsible for WP2.
- From 2024: contributor member of Working Group "Antibiotic-Resistance Genes", within the environmental surveillance network AMR (Anti-Microbial Resistance) of Italian National Institute of Health.
- Teaching activities:
 - o 2023-today: Marine Environmental Microbiology, M.Sc. in Marine Sciences
 - o 2023-today: Laboratory of Biological Quality Analysis, B.Sc. in Environmental Sciences and Technologies
 - o 2020-today: Environmental Microbiology, M.Sc. in Sciences and Technologies for Environment and Landscape

- 2019-2020: Applied Microbiology, M.Sc. in Sciences and Technologies for Environment and Landscape, and M.Sc. in Industrial Biotechnologies.
- Supervisor and co-supervisor of 51 theses of B.Sc. and M.Sc. degrees in Environmental Sciences, Biotechnologies e Biological Sciences.
- Supervisor of 4 Ph.D. projects within PhD Course in Chemical, Geological and Environmental Sciences of the University of Milano Bicocca (XXXVIII and XXXIX Cycle).

PUBLICATION INDEXES (SCOPUS)

- NUMBER OF PUBLICATIONS: 43
- TOTAL NUMBER OF CITATIONS: 3145
- H-INDEX: 28

10 MOST RELEVANT PUBLICATIONS

1. I. Gandolfi, C. Canedoli, A. Rosatelli, S. Covino, D. Cappelletti, B. Sebastiani, V. Tatangelo, D. Corengia, F. Pittino, E. Padoa-Schioppa, X. Báez-Matus, L. Hernández, M. Seeger, Z. Saati-Santamaría, P. García-Fraile, R. López-Mondéjar, R. Ambrosini, M. Papacchini, A. Franzetti. 2024. *Microbiomes of urban trees: unravelling contributions to atmospheric pollution mitigation* – Front Microbiol 15, 1470376
2. V. Nava, B. Leoni, M.M. Arienzo, Z.S. Hogan, I. Gandolfi, V. Tatangelo, E. Carlson, S. Chea, S. Soum, R. Kozloski, S. Chandra. 2024. *Plastic pollution affects ecosystem processes including community structure and functional traits in large rivers* – Water Res 259, 121849.
3. A. Costanzo, R. Ambrosini, A. Franzetti, A. Romano, J.G. Cecere, M. Morganti, D. Rubolini, I. Gandolfi. 2022. *The cloacal microbiome of a cavity-nesting raptor, the lesser kestrel (Falco naumanni)* – PeerJ 10:e13927
4. W. Smets, L. Spada, I. Gandolfi, K. Wuyts, M. Legein, B. Muyschondt, R. Samson, A. Franzetti, S. Lebeer. 2022. *Bacterial succession and community dynamics of the emerging leaf phyllosphere in spring* – Microbiol Spectr 10: e02420-21
5. C. Petroselli, E. Montalbani, G. La Porta, S. Crocchianti, B. Moroni, C. Casagrande, E. Ceci, R. Selvaggi, B. Sebastiani, I. Gandolfi, A. Franzetti, E. Federici, D. Cappelletti. 2021. *Characterization of long-range transported bioaerosols in the Central Mediterranean* – Sci Total Environ 763, 143010
6. A. Franzetti, I. Gandolfi, G. Bestetti, E. Padoa Schioppa, C. Canedoli, D. Brambilla, D. Cappelletti, B. Sebastiani, E. Federici, M. Papacchini, R. Ambrosini. 2020. *Plant-microorganisms interaction promotes removal of air pollutants in Milan (Italy) urban area* – J Hazard Mater 384, 121021
7. R. Ambrosini, M. Corti, A. Franzetti, M. Caprioli, D. Rubolini, V.M. Motta, A. Costanzo, N. Saino, I. Gandolfi. 2019. *Cloacal microbiomes and ecology of individual barn swallows* – FEMS Microbiol Ecol 95, f061
8. I. Gandolfi, C. Canedoli, V. Imperato, I. Tagliaferri, P. Gkorezis, J. Vangronsveld, E. Padoa Schioppa, M. Papacchini, G. Bestetti, A. Franzetti. 2017. *Diversity and hydrocarbon-degrading potential of epiphytic microbial communities on Platanus x acerifolia leaves in an urban area* – Environ Pollut 220, 650-658.
9. I. Gandolfi, V. Bertolini, G. Bestetti, R. Ambrosini, E. Innocente, G. Rampazzo, M. Papacchini, A. Franzetti. 2015. *Spatio-temporal variability of airborne bacterial communities and their correlation with particulate matter chemical composition across two urban areas* - Appl Microbiol Biotechnol 99, 4867-4877.
10. I. Gandolfi, V. Bertolini, R. Ambrosini, G. Bestetti, A. Franzetti. 2013. *Unravelling the bacterial diversity in the atmosphere* – Appl Microbiol Biotechnol 97, 4727-4736.

PATENTS

- 1 National Patent: *Microbiological mercury removal from contaminated materials* – Italian Patent ITRM20080183

Milano, 30/06/2025