

Edoardo Massa, Ph.D.

Edoardo Massa, Ph.D. is a **zoologist** interested on the study of **arthropods** and **micrometazoans** faunas using **innovative integrative approaches for taxonomy, systematics, evolutionary biology, morphofunctional investigations, ecophysiology, and biogeography**. He described nine tardigrade **species new to science** and compiled the checklists of the Finnish, Swedish, and Canadian tardigrades species. His skills include: **Light, Scanning Electron, and Confocal Laser Scanning Microscopies**; molecular biology for **DNA barcoding** and **phylogenetic analyses**; programming with **R and MATLAB**. He **graduated cum laude** and obtained the **Ph.D. cum laude at the school "M3ES"** of UNIMORE (Italy). He has been **visiting invited researcher** at the **Kristianstad University** (Sweden), at the **Chulalongkorn University** (Thailand), and at the **Copenhagen University** (Denmark). He is devoted to **science education** through teaching and outreaching in collaboration with universities, schools, and charities.

Member of Unione Zoologica Italiana [UZI]; Italian Society for Microscopical Science [SISM]; Società Italiana di Biologia Sperimentale [SIBS]. **Reviewer for** Micron, Scientific Reports, European Journal Of Taxonomy, Italian Journal of Zoology, Zoological Science, Zoological Journal of the Linnean Society, Zoosystematics and Evolution, Zootaxa.

EDUCATION

2020–'24 Ph.D. in Zoology (Area 05, SS BIOS-03A-ZOOLOGIA) *cum laude*

CV Att. 1. *Università degli Studi di Modena e Reggio Emilia, Dipartimento di Scienze Chimiche e Geologiche, PhD Course in "Models and Methods for Material and Environmental Sciences" – XXXVI cycle*

•thesis: "Inside Tardigrada's apomorphy: composition, morphofunctional adaptation, and evolution of their cuticular-derived structures."

•advisors: Prof. Roberto Guidetti

2020 Admitted to the Profession of Biologist, Section A, ONB

CV Att. 2. *Università degli Studi di Modena e Reggio Emilia*

2020 University Course "Geologia" (Geology; 12 ECTS)

CV Att. 3. *Università degli Studi di Modena e Reggio Emilia, Dipartimento di Scienze Chimiche e Geologiche, Course of the Bachelor's degree in "Scienze Naturali"*

2019 Training course "Percorso formativo per il conseguimento di 24 CFU (D.M.

CV Att. 4. 616/2017)"(Pedagogy, Anthropology, and Psychology for Teaching; 24 ECTS)

Università Nicolò Cusano

2015–'18 Master's Degree in "Biologia Sperimentale e Applicata" (*Experimental and Applied Biology*) *cum laude*

CV Att. 5. *Università degli Studi di Modena e Reggio Emilia, Dipartimento di Scienze della Vita*

•thesis: "Tardigrade of Victoria Land, Antarctica. Taxonomic, Biogeographical and Evolutionary Results."

•advisors: Prof. Roberto Guidetti & Prof. Lorena Rebecchi; co-advisor: Dr. Michele Cesari

2009–'15 Bachelor's Degree in "Scienze Biologiche" (*Biological Science*)

CV Att. 6. *Università degli Studi "Roma Tre"*

•thesis: "Resistenza agli Stress Ambientali sulla Terra e nel Vacuum. Studi Sperimentali sui Tardigradi." (*Resistance to Environmental Stresses on Earth and on Vacuum. Experimental Studies on Tardigrades.*)

•advisor: Prof. Marco Alberto Bologna; co-advisor: Dr. Leonardo Vignoli

2008–'11 Triennial Professional Course "Corso di Perfezionamento in Erboristeria" (*Advanced Course in Herbal Medicine*)

CV Att. 7. *Scuola d'Arti e dei Mestieri "Scienza e Tecnica" (Dipartimento Turismo Formazione e Lavoro Direzione, Formazione Professionale e Lavoro, Comune di Roma Capitale)*

2004–'09 High School Diploma "Liceo Scientifico – Piano Nazionale d'Informatica [PNI]"

· L.S.S. "Evangelista Torricelli"

NATIONAL & INTERNATIONAL RESEARCH EXPERIENCES

- Sept '24–ongoing** Postdoctoral Researcher
CV Att. 8. Università degli Studi di Modena e Reggio Emilia, Dipartimento di Scienze della Vita, Laboratory of Evolutionary Zoology
- Jun '24–ongoing** Freelance Research and Monitoring Services
CV Att. 9. Research, monitoring, and indexing of soil microarthropods – *Ente di gestione per i Parchi e la Biodiversità Emilia Centrale*
- Feb–Aug '24** Laureato Frequentatore (*Frequenting Graduate Student*)
CV Att. 10. Università degli Studi di Modena e Reggio Emilia, Dipartimento di Scienze della Vita, Laboratory of Evolutionary Zoology
- Jan–Apr '23** Visiting Researcher in Denmark
CV Att. 11. Invited at Copenhagen University (Denmark), Department of Biology by Prof. Nadja Mobjerg
- Jun–Jul '22** Visiting Researcher in Thailand for the Research Project: "DRYNET"
CV Att. 12. Invited at Chulalongkorn University (Thailand), Faculty of Veterinary Science by Prof. Theerawat Tharasanit
- May–Oct '20** Self-employed collaborator in the Research Project: "Tardigrades in Norwegian forests"
CV Att. 13. Università degli Studi di Modena e Reggio Emilia, Dipartimento di Scienze della Vita, Laboratory of Evolutionary Zoology
- Dec '19–Feb '20** Supply of services in the Research Project: "Identificazione di specie di insetti e loro allevamento con fonti alimentari atipiche" (*"Identification of insect species and breeding of them with atypical food supply"*)
CV Att. 14. Università degli Studi di Modena e Reggio Emilia, Dipartimento di Scienze della Vita, Laboratory of Evolutionary Zoology
- Aug '19** Visiting Researcher in Sweden
CV Att. 15. Invited at Kristianstad University (Sweden), Department of Life and Environmental Science by Prof. K. Ingemar Jönsson
- Jun–Sep '19** Supply of services in the Research Project: "Identificazione di specie di insetti e loro allevamento con fonti alimentari atipiche" (*"identification of insect species and breeding of them with atypical food supply"*)
CV Att. 16. Università degli Studi di Modena e Reggio Emilia, Dipartimento di Scienze della Vita, Laboratory of Evolutionary Zoology
- Jen–Apr '19** Laureato Frequentatore (*Frequenting Graduate Student*)
CV Att. 17. Università degli Studi di Modena e Reggio Emilia, Dipartimento di Scienze della Vita, Laboratory of Evolutionary Zoology
- Oct '18–Mar '19** Visiting Researcher in Sweden
CV Att. 18. Invited at Kristianstad University (Sweden), Department of Life and Environmental Science by Prof. K. Ingemar Jönsson
- 2013–'14** Internship in Taxidermy 250h
Museo Civico di Zoologia di Roma Capitale

TEACHING ACTIVITIES FOR UNIVERSITY

- Oct–Nov '24** Strumenti e percorsi didattici per le scienze biologiche - BIO/05 – 20h
CV Att. 19. Corso di formazione iniziale insegnanti ai sensi del DPCM del 4 agosto 2023 pubblicato sulla G.U. serie generale no. 224 del 25-09-2023
Università degli Studi di Modena e Reggio Emilia, Centro Multidisciplinare per la Formazione degli Insegnanti

PUBLICATIONS (*:corresponding author; ":co-first author)

- Paper In Extenso* **Massa, E.*** & Vecchi, M. (2024)
CV Att. 20. Description of *Macrobiotus kathyae* sp. nov. (Parachela: Macrobiotidae) and first records of tardigrades from Indiana (USA) *Zootaxa*, 5471 (3), 301–317. (IF 2023: 0.8)
- Paper In Extenso* **Massa, E.***, Guidetti, R. & Rebecchi, L. (2024)
CV Att. 21. Composition and structural organization of tardigrades feeding apparatus focusing on chitin and other autofluorescent molecules. *Zoological Journal of the Linnean Society*, 200(1), 186–199. (IF 2023: 3.0)
- Paper In Extenso* Brandoli, S., Cesari, M.*, **Massa, E.**, Vecchi, M., Rebecchi, L., & Guidetti, R. (2024)
CV Att. 22. Diverse eggs, diverse species? Production of two egg morphotypes in *Paramacrobiotus bifrons*, a new eutardigrade species within the *areolatus* group. *The European Zoological Journal*, 91 (1), 274–297. (IF 2023: 1.6)
- Paper In Extenso* **Massa, E.***, Vecchi, M., Calhim, S., & Choong, H. (2024).
CV Att. 23. First records of limnoterrestrial tardigrades (Tardigrada) from Haida Gwaii, British Columbia, Canada. *The European Zoological Journal*, 91(1), 1–20. (IF 2023: 1.752)
- Paper In Extenso* Camarda, D.", **Massa, E."***, Guidetti, R. & Lisi, O. (2023)
CV Att. 24. A new, simplified, drying protocol to prepare tardigrades for scanning electron microscopy. *Microscopy Research and Technique*, jemt.24460, 1–11. (IF 2023: 2.0)
- Paper In Extenso* **Massa, E.***, Guidetti, R. & Rebecchi, L. (2023).
CV Att. 25. Effects of synthetic acid rain and organic and inorganic acids on survival and CaCO₃ piercing stylets in tardigrades. *Journal of Experimental Zoology Part A: Ecological and Integrative Physiology*, 339(6), 578–589. (IF 2023: 1.9)
- Paper In Extenso* Guidetti, R., Schill, R. O., Giovannini, I., **Massa, E.**, Goldoni, S. E., Rebecchi*, L., Ebel, C., Förschler, M. I. & Cesari, M. (2021).
CV Att. 26. Phylogenetic position of *Crenubiotus* within Macrobiotidea (Eutardigrada) and integrative description of *Crenubiotus ruhesteni* sp. nov. *Journal of Zoological Systematics and Evolutionary Research*, 59(3), 576–587. (IF 2023: 2.0)
- Paper in Extenso* **Massa, E.**, Guidetti, R.*, Cesari, M., Rebecchi, L. & Jönsson, K.I. (2021).
CV Att. 27. Tardigrades of Kristianstad Vattenrike (Skane, Sweden) with Description of Four New Species. *Scientific Reports*, 11(1), 1–19. (IF 2023: 3.8)
- Paper in Extenso* Vuori, T.", **Massa, E."**, Calhim, S. & Vecchi, M.* (2020).
CV Att. 28. Tardigrades of Finland: an Annotated Checklist and New Record. *Zootaxa*, 4851(3), 477–521. (IF 2023: 0.8)
- Paper in Extenso* Guidetti, R.", **Massa, E."**, Bertolani, R., Rebecchi, L.* & Cesari, M. (2019).
CV Att. 29. Increasing Knowledge on Antarctic Biodiversity: New Endemic Taxa of Tardigrades (Eutardigrada; Ramazzottiidae) and Their Evolutionary Relationships. *Systematics and Biodiversity*, 17(6), 573–593. (IF 2023: 1.8)

PRESENTATION AT CONGRESSES (*presenting author)

- Abstract* **Massa, E.**, Hohberg, K., Devetter, M., & Guidetti, R. (2024).
Poster Session Strengthening Soil Meiofauna Expertise: The SoilMATs (Soil Meiofauna Advanced Taxonomy School) Project 83° *Congresso Nazionale Unione Zoologica Italiana* (September 11st – 14th, 2024 Pisa, Italy)
CV Att. 30.

- Abstract* Fontanili, E.*, Giovannini, I., **Massa, E.**, Landini, A., Guidetti, R., Rebecchi, L., & Altiero, T. (2024).
Poster Session
 CV Att. 31. The Citizen Science project "Tardigrades go to school!" enreaches tardigrade biodiversity through schools and researchers' collaboration *83° Congresso Nazionale Unione Zoologica Italiana* (September 11st – 14th, 2024 Pisa, Italy)
- Abstract* Giovannini, I.*, **Massa, E.**, Fontanili, E., Landini, A., Rebecchi, L., Guidetti, R., & Altiero, T. (2024).
Poster Session
 CV Att. 32. Tardigrades go to school! A Citizen Science project to foster our and students' awareness of hidden biodiversity *Forum Nazionale della Biodiversità* (May 20th – 22nd, 2024 Palermo, Italy)
- Abstract* Camarda, D.*, **Massa, E.**, Guidetti, R., & Lisi, O.* (2023).
Poster Session
 CV Att. 33. SEM en tardígrados: resultados preliminares sobre la aplicación de una nueva técnica *1er Encuentro Latinoamericano de Tardigradología* (October 3rd – 13th, 2023 Mexico City, Mexico)
- Abstract* **Massa, E.***, Marcantognini, A., Guidetti, R., Rebecchi, L. & Møbjerg, N. (2023).
Poster Session
 CV Att. 34. Integrating nerves and muscles: deciphering the evolution of the tardigrade head. *82° Congresso Nazionale Unione Zoologica Italiana* (September 19th – 22nd, 2023 Palermo, Italy)
- Abstract* Brandoli, S.*, Cesari, M., **Massa, E.**, Vecchi, M., Rebecchi, L., & Guidetti, R. (2023).
Poster Session
 CV Att. 35. Deceptive morphology: production of two different egg morphotypes in a new tardigrade species. *82° Congresso Nazionale Unione Zoologica Italiana* (September 19th – 22nd, 2023 Palermo, Italy)
- Abstract* **Massa, E.**, Camarda, D., Lisi, O., & Guidetti, R.* (2023).
Poster Session
 CV Att. 36. A new, simplified, protocol to prepare micrometazoans for scanning electron microscopy *82° Congresso Nazionale Unione Zoologica Italiana* (September 19th – 22nd, 2023 Palermo, Italy)
- Abstract* **Massa, E.***, Rebecchi, L. & Guidetti, R. (2022).
Poster Session
 CV Att. 37. Assessment of the environmental acidification lethal effect: tardigrades exposure to synthetic acid rain and its principal components. *81° Congresso Nazionale Unione Zoologica Italiana* (September 20th – 23rd, 2022 Trieste, Italy)
- Abstract* **Massa, E.***, Rebecchi, L. & Guidetti, R. (2022).
Talk Session
 CV Att. 38. New Insights on Chemical Composition and Morpho-functional Adaptations of Tardigrades Feeding Apparatus. *15° International Symposium on Tardigrada* (August 22nd – 26th, 2022 Krakow, Poland)
- Abstract* **Massa, E.***, Rebecchi, L. & Guidetti, R. (2022).
Talk Session
 CV Att. 39. Overcoming Size in Microscopic Animals: New Approach To Study Tardigrades With Confocal Laser Microscopy. *94° Congresso Nazionale della Società di Biologia Sperimentale* (April 6th – 9th, 2022 Online)
- Abstract* **Massa, E.***, Rebecchi, L. & Guidetti, R. (2021).
Talk Session
 CV Att. 40. Insight of the structural organization of the feeding apparatus of tardigrades. *Simposio «Giovani Ricercatori Under 35» dell'Unione Zoologica Italiana ETS* (September 15th, 2021 Online)
- Abstract* **Massa, E.***, Guidetti, R. & Rebecchi, L. (2021).
Poster Session
 CV Att. 41. Feeding apparatus of microscopic animals: new approach to study tardigrades with confocal laser microscopy. *Joint Meeting of Dreiländertagung Multinational Congress on Microscopy* (August 22nd – 26th, 2021 Online)

Abstract **Massa, E.***, Guidetti, R. & Rebecchi, L. (2021).
Poster Session Effects of the Environment Acidification: Tardigrade Exposure to Increasing Acid
 CV Att. 42. Concentrations. *93° Congresso Nazionale della Società di Biologia Sperimentale*
 (April 22nd – 25th, 2021 Palermo, Italy)

Abstract **Massa, E.***, Jönsson, K.I., Rebecchi, L. & Guidetti, R. (2019).
Poster Session A Faunistic Survey of Tardigrades in Kristianstad Vattenrike Biosphere Reserve
 CV Att. 43. (Sweden). *80° Congresso Nazionale Unione Zoologica Italiana* (September 23rd –
 26th, 2019 Rome, Italy)

Abstract Guidetti, R.*, **Massa, E.**, Cesari, M., McInnes, S. & Rebecchi, L. (2018).
Poster Session Tardigrades of Victoria Land (Antarctica). *14th International Symposium on Tardi-*
 CV Att. 44. *grada* (July 30th – August 3rd, 2018 Copenhagen, Denmark)

PRESENTATION AT SEMINARS and WORKSHOPS

Apr 12th, 2025 "La biodiversità impercettibile"
 CV Att. 45. Entomodena (Modena, Italy)
 •Workshop aim: To introduce the informative role of soil fauna in assessing biodiversity health, with reference to the SoilMATs and BioBeRoots projects)

Dec 12th, 2018 "Morphomolecular Taxonomy on Tardigrade, Two Case Studies"
 CV Att. 46. Kristianstad University (Kristianstad, Sweden)
 •Seminar aim: introduce the integrated morphological and molecular taxonomy and its application on systematic and phylogenetic studies, with the report of cases from Antarctica and Sweden

AWARDS

Travel **Massa, E.**, Rebecchi, L. & Guidetti, R. (2022).
Scholarship 2022 Assessment of the environmental acidification lethal effect: tardigrades exposure to synthetic acid rain and its principal components. *81° Congresso Nazionale Unione Zoologica Italiana* (September 20th – 23rd, 2022 Trieste, Italy). Granted by Unione Zoologica Italiana & Stazione Zoologica Anton Dohrn
 CV Att. 47.

Young **Massa, E.**, Rebecchi, L. & Guidetti, R. (2022).
Investigator Overcoming Size in Microscopic Animals: New Approach To Study Tardigrades
Best Presentation With Confocal Laser Microscopy. *94° Congresso Nazionale della Società di Biologia Sperimentale* (April 6th – 9th, 2022 Turin, Italy)
 CV Att. 48.

Best Poster **Massa, E.** (2021).
 CV Att. 49. Structure and Chemical Composition of the Tardigrade Feeding Apparatus. *PhD Day 2021* (October 25th, 2021 Modena, Italy)

Young **Massa, E.**, Guidetti, R. & Rebecchi, L. (2021).
Investigator Effects of the Environment Acidification: Tardigrade Exposure to Increasing Acid
Best Videoposter Concentrations. *93° Congresso Nazionale della Società di Biologia Sperimentale*
 CV Att. 50. (April 22nd – 25th, 2021 Palermo, Italy)

CO-TUTORING FOR THESIS PROJECT

Academic Year Bachelor's Degree Internship and Thesis of Davide Spallina
2023–2024
 CV Att. 51. •Thesis: "Analisi della pedofauna e valutazione del qbs-ar in ambienti di prati pascolo di alta quota e vacciniati dell'appennino modenese"
 •Tutor: Prof. Roberto Guidetti
 •Co-tutors: Dr. Edoardo Massa

- Academic Year 2023–2024**
CV Att. 52. **Bachelor's Degree Internship and Thesis of Elena Fontanili**
•Thesis: "I tardigradi vanno a scuola!": Un progetto di Citizen Science per la caratterizzazione morfologica e molecolare della biodiversità dei tardigradi italiani"
•Tutor: Dr. Ilaria Giovannini
•Co-tutors: Prof. Tiazina Altiero & Dr. Edoardo Massa
- Academic Year 2020–2021**
CV Att. 53. **Bachelor's Degree Internship and Thesis of Martina Salvioli Mariani**
•Thesis: Acidificazione ambientale: risposte dei tardigradi in seguito alla esposizione a soluzioni acide"
•Tutor: Prof. Roberto Guidetti
•Co-tutor: Edoardo Massa

OUTREACHING ACTIVITIES

- Apr 12–13th, '25**
CV Att. 54. **FAUNE IM-PERCETTIBILI**
Laboratory at 62° Entomodena, Polisportiva Saliceta San Giuliano, Modena
- Mar 1st–2nd, '25**
CV Att. 55. **Faune im-percettibili**
Laboratory at Verdi Passioni 2025, Modena
- Sep 27th, '24**
CV Att. 56. **Il sistema bosco: alla scoperta dell'atmobios**
Laboratory at Notte Europea della Ricerca 2024 – San Geminiano, UNIMORE, Modena
- Sep 27th, '24**
CV Att. 57. **Il sistema bosco: alla scoperta dell'hydrobios**
Laboratory at Notte Europea della Ricerca 2024 – San Geminiano, UNIMORE, Modena
- Sep 21–22nd, '24**
CV Att. 58. **Mondi Microscopici**
Laboratory at 60° Entomodena, Polisportiva Saliceta San Giuliano, Modena
- Jun 26–30th, '24**
CV Att. 59. **Mondi Microscopici**
Laboratory at Youth Festival 2024, Sassuolo
- May 18th, '24**
CV Att. 60. **Lo zoo in un francobollo: alla scoperta dei piccoli animali del suolo**
Laboratory at Giardino e Orto Officinale di Gabrina nel Parco delle Acque Chiare, Reggio Emilia
- May 14th, '24**
CV Att. 61. **Prova ad uccidermi! Diario di un Tardigrado**
Talk at the Pint of Science 2024 session "Racconti Estremi" – Bologna
- Apr 13–14th, '24**
CV Att. 62. **Lo zoo in un francobollo**
Laboratory at 59° Entomodena, Polisportiva Saliceta San Giuliano, Modena
- Mar 9–10th, '24**
CV Att. 63. **Safari al Microscopio**
Laboratory at Verdi Passioni 2024, Modena
- Sep 29th, '23**
CV Att. 64. **La vita dove non ti aspetti: alla ricerca dei tardigradi!**
Laboratory at Notte Europea della Ricerca 2022 – Complesso San Paolo, UNIMORE, Modena
- Sep 23–24th, '23**
CV Att. 65. **Non è solo una manciata di terra: rispettiamo!**
Laboratory at 58° Entomodena, Polisportiva Saliceta San Giuliano, Modena
- May 23rd, '23**
CV Att. 66. **Opening event of "Pomario del Rio – Tenuta Ca' del Rio"**
Didactic guide for Azienda agricola Piombini Ivo, Casinalbo di Formigine, Modena & Dipartimento di Scienze della Vita, UNIMORE, Modena
- Apr 8th, '22**
CV Att. 67. **Dalla Magistrale al Dottorato**
Talk at Biomeeting 2022 – Dipartimento di Scienze della Vita, UNIMORE, Modena
- Sep 30th, '22**
CV Att. 68. **I tardigradi: falsi miti, curiosità e ricerca**
Laboratory at Notte Europea della Ricerca 2022 – Complesso San Geminiano, UNIMORE, Modena

SCIENTIFIC RESPONSIBILITY ON PROJECTS GRANTED BY FUNDING OF PUBLIC COMPETITION NOTICES

- JobOk Project 2020*
CV Att. 69. **JobOk – Back To The Uni – Nucleo di Gravità Permanente**
•**Scientific education project** aim: ease young **NEETs, inmates, and invisible disabled** the access to **academic culture** via use of **innovative approaches and technologies** to increase university populations.
•Rank: 43rd on more than 1000 presented projects
•Suitable for grant by *Presidenza del Consiglio dei Ministri*, competition notice **"FERMENTI 2019"**

ATTENDING TO COURSES

- Sep 9–13th, '24*
CV Att. 70. **International Summer School – High mountain ecosystems by soil survey and GIS-based mapping – 5d**
Prof. Livia Vittori Antisari, Università di Bologna, Italy
- Jun 4–5th, '24*
CV Att. 71. **X-ray tomography and image data analysis – 14h**
Dr. Gabriele Lanzafame & Prof. Alberto Viani, Università di Modena e Reggio Emilia, Italy
- Jun 26–30th, '23*
CV Att. 72. **Biodiversity of Ciliophora and morphological techniques to characterize them – 40h**
Dr. Valentina Serra, Università di Pisa, Italy
- May 8–22nd, '23*
CV Att. 73. **Geographic Information System (GIS) – 16h**
Dr. Giuseppe Ciccicarese, Università di Modena e Reggio Emilia, Italy
- 2021–'22*
CV Att. 74. **BI-62 Microscopie e biofisica per le biotecnologie – 6 ECTS**
Prof. Ciro Cecconi, Università di Modena e Reggio Emilia, Italy
- Apr 11–12th, '22*
CV Att. 75. **Modern Analytical Science needs Modern Data Analysis Approach. Artificial Intelligence in scientific data analysis – 12h**
Dr. José Amigo, Università di Modena e Reggio Emilia, Italy
- Mar, '22*
CV Att. 76. **Numerical recipes for environmental sciences with MATLAB – 20h**
Dr. Fabio Durastante, Università di Modena e Reggio Emilia, Italy
- Jun–Jul, '21*
CV Att. 77. **R for biology: data analysis introduction – 20h**
Dr. Matteo Vecchi, Università di Modena e Reggio Emilia, Italy
- May 22–26th, '21*
CV Att. 78. **Introduction to multivariate data analysis with exercise (PCA and PLS basic) – 8h**
Dr. Caterina Durante, Università di Modena e Reggio Emilia, Italy
- Feb 22nd, '21*
CV Att. 79. **La progettazione razionale degli esperimenti (Design of Experiments, DoE): sviluppo e ottimizzazione in sintesi organica e nella formulazione farmaceutica – 4h**
Dr. Giorgio Marrubini, Università di Modena e Reggio Emilia, Italy
- Sep 11–12th, '19*
CV Att. 80. **15th Course for Confocal Microscopy – 14h**
Italian Society for Microscopical Sciences at Università di Modena e Reggio Emilia, Modena, Italy

ATTENDING TO WEBINARS & WORKSHOP

- 2023*
CV Att. 81. **The Tardigrade Story – 250th Anniversary of the Discovery**
Series of 12 webinars on tardigrades held by 12 leading international scientists from Denmark, Germany, Italy, Japan, Poland, Sweden, and USA
- Jun 10th, '22*
CV Att. 82. **Centro Interdipartimentale Grandi Strumenti– Open Day**
Hands-on activities on advanced microscopies
Università di Modena e Reggio Emilia, Modena, Italy

Oct 10th, '19 Brain-Inspired Computing 2019

CV Att. 83. The workshop explores different aspects of neuromorphic computing: from biologically realistic models to synaptic and neuromorphic electronics to drive the latest generation of artificial neural networks
Università di Modena e Reggio Emilia, Modena, Italy

Sep 13th, '19 Reversible Drying: Lessons from Anhydrobiontes

CV Att. 84. The workshop explores DRYNET. The first network engaged in turning biobanking into a widespread and accessible technology with considerable cost saving and low environmental impact
Università di Modena e Reggio Emilia, Modena, Italy

TEACHING ACTIVITIES FOR PUBLIC AND NON-PROFIT ORGANIZATIONS**Oct 21st, '23 La vita in una goccia d'acqua – 2h**

CV Att. 85. Hands-on class on aquatic micrometazoans for 6-12 years old pupils
Proloco Castelfranco Emilia & Accademia del Naturale A.P.S. – Ente di formazione e promozione sociale per la diffusione della Naturopatia e Discipline Olistiche Naturali

Feb–Mar, '23 PrINClpi di Cosmetica – 8h

CV Att. 86. Training course on phytocosmetic for holistic counselors
Accademia del Naturale A.P.S. – Ente di formazione e promozione sociale per la diffusione della Naturopatia e Discipline Olistiche Naturali

Sep–Nov, '21 Corso Completo di Erboristeria – 16h

CV Att. 87. Training course on herbal medicine for holistic counselors
Accademia del Naturale A.P.S. – Ente di formazione e promozione sociale per la diffusione della Naturopatia e Discipline Olistiche Naturali

SOCIAL CHARGES IN NON-PROFIT ORGANIZATIONS**Mar '23–Ongoing Councilor of the Accademia del Naturale A.P.S.**

Ente di formazione e promozione sociale per la diffusione della Naturopatia e Discipline Olistiche Naturali

Jun '20–Dec '21 President of the JobOk Società Cooperativa Sociale [ONLUS]

JobOk Società Cooperativa Sociale - Startup Innovativa A Vocazione Sociale ad Alta Intensità di Applicazione di Conoscenza - Ente del Terzo Settore - Impresa Sociale, Femminile e Giovanile

MAIN SKILLS

Microscopy	Digitalization and Production of MultiSteps Imaging Digitalization and Production of Images with Light Microscope (LM) Digitalization and Production of Images with Scanning Electron Microscope (SEM) Digitalization and Production of 3D Render and Image with Confocal Laser Scanning Microscope (CLSM)
Molecular biology	Extraction of Genomic DNA from microarthropods and micrometazoans PCR amplification of nuclear and mitochondrial genes Gel Purification with Wizard Gel and PCR cleaning (Promega, Madison, WI, USA) kit Sequencing Reaction for Genomic DNA
Specimens Preservation, Culturing, and Taxonomy	Vertebrate Dry Skins preparation for study and ostension (Taxidermy) Micrometazoans and vertebrate preservation for museology Micrometazoans preparation for Light, Confocal Laser Scanning, and Scanning Electron Microscopy Chemical and immunohistochemical staining of micrometazoans for morphofunctional studies Collecting & Culturing insects, tardigrades, nematodes, rotifers, and microarthropods Taxonomy of tardigrades, nematodes, rotifers, and microarthropods
Computer	Operating Systems: MAC, Windows, Linux Programming Platforms: R, MATLAB Imaging: Leica Application Suite LAS, NIS elements, Fiji, Huygens Professional, Adobe Creative Suite Genetic: BLAST, MEGA, FinchTV, FigTree Geography: QGIS, ArcGIS Document Preparation System: LaTeX, Office 365 Suite

Languages **Italian** – Mother Tongue

CV Att. 88. **English** – speak, read, and write fluently (C1); certificated level: B1 (sustained in 2010 - certified in 2018 by Centro Linguistico di Ateneo [CLA], Università degli Studi "Roma Tre")