



## Edoardo Massa

Born June 4th, 1990 in Rome (RM), Italy

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**Dr. Edoardo Massa** is a **zoologist** mostly interested on the study of **entomological** and **micrometazoan** fauna using **innovative integrative approaches for taxonomy, systematics, evolutionary biology, and biogeography**. He focused his previous work on **micrometazoan diversity** and described some **species new to science**. He is also interested on **applied entomology**. His skills include: **Light, Scanning Electron, and Confocal Laser Scanning Microscopy analysis** for identification and description of species; extraction, purification, and sequencing of genes for **DNA barcoding, metabarcoding, and phylogenetic analyses**.

He **graduated cum laude** at the University of Modena and Reggio Emilia (Italy). He spent four months as **visiting invited researcher** at the **Kristianstad University** (Sweden).

As **President** of the **JobOK Social Cooperative (ONLUS)** he dedicate himself to the **scientific divulgation, conference organization, and science education**.

### EDUCATION

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- 2020 Attachment A Admitted to the Profession o Biologist Sez. A  
Università degli Studi di Modena e Reggio Emilia
- 2020 – ongoing Attachment B PhD Student  
Università degli Studi di Modena e Reggio Emilia, Dipartimento di Scienze Chimiche e Geologiche, PhD Course XXXVI cycle in "Models and Methods for Material and Environmental Sciences"
- 2020 Attachment C Geologia (12 ECTS)  
Università degli Studi di Modena e Reggio Emilia, Dipartimento di Scienze Chimiche e Geologiche, C.d.L. Scienze Naturali
- 2019 Attachment D Pedagogy, anthropology and psychology for the high school teaching (24 ECTS)  
Università Nicolò Cusano
- 2015 – 2018 Attachment E Master's degree in "Biologia Sperimentale e Applicata" (*Experimental and Applied Biology*)  
Università degli Studi di Modena e Reggio Emilia, Dipartimento di Scienze della Vita
- thesis: "Tardigrade of Victoria Land, Antarctica. Taxonomic, Biogeographical and Evolutionary Results."
  - advisor: Prof. Roberto Guidetti & Prof. Lorena Rebecchi; co-advisor: Dr. Michele Cesari
  - final mark 110/110 *cum laude*; weighted average 28.99/30
- 2009 – 2015 Attachment F Bachelor's degree in "Scienze Biologiche" (*Biological Science*)  
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
  - final mark 91/110; weighted average 22.76/30
- 2008 – 2011 Attachment G "Corso di Perfezionamento in Erboristeria" (*Advanced Course in Herbal Medicine*) 750h  
Scuola d'Arti e dei Mestieri "Scienza e Tecnica" (Dipartimento Turismo Formazione e Lavoro Direzione, Formazione Professionale e Lavoro, Comune di Roma Capitale)
- course description: Herbal Medicine, Phytocosmesis, Making of Herbal Topical and Pharmacological Formulation

2004 – 2009 High school's degree "Liceo Scientifico"  
Attachment H L.S.S. "Evangelista Torricelli"  
• final mark 72/100

## NATIONAL & INTERNATIONAL RESEARCH EXPERIENCES

- May 2020 – October 2020 Self-employed collaborator in the Research Project: "Tardigrades in Norwegian forests"  
Attachment I Contratto di lavoro autonomo at Università degli Studi di Modena e Reggio Emilia, Dipartimento di Scienze della Vita, Laboratory of Evolutionary Zoology
- December 2019 – February 2020 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*")  
Attachment J Prestazione d'opera occasionale at Università degli Studi di Modena e Reggio Emilia, Dipartimento Scienze della Vita, Laboratory of Evolutionary Zoology
- 16th – 24th August 2019 Visiting Researcher in Sweden  
Attachments K, L Invited at Kristianstad University (Sweden), Department of Life and Environmental Science by Prof. K. Ingemar Jönsson
- June 2019 – September 2019 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*")  
Attachment M Prestazione d'opera occasionale at Università degli Studi di Modena e Reggio Emilia, Dipartimento Scienze della Vita, Laboratory of Evolutionary Zoology
- March 2019 – February 2020 Laureato Frequentatore (*Frequenting Graduate Student*)  
Attachment N Università degli Studi di Modena e Reggio Emilia, Dipartimento Scienze della Vita, Laboratory of Evolutionary Zoology  
Reference: Prof. Roberto Guidetti, roberto.guidetti@unimore.it, tel. +39 0592055555
- October 2018 – March 2019 Visiting Researcher in Sweden  
Attachments N, O Invited at Kristianstad University (Sweden), Department of Life and Environmental Science by Prof. K. Ingemar Jönsson
- October 2016 – February 2018 Internship in Zoology 750h  
Università degli Studi di Modena e Reggio Emilia, Dipartimento Scienze della Vita, Laboratory of Evolutionary Zoology  
• The aim of the internship was to study the populations of tardigrades from Victoria Land (Antarctica) with an approach based on morpho-molecular taxonomy
- 2013 – 2014 Taxidermy Apprenticeship for the Bachelor's Curricular Internship 250h  
Attachment P Museo Civico di Zoologia  
• Vertebrate dry skins for study and ostension
- July 2013 – September 2014 Internship in Zoology 250h  
Università degli Studi "Roma Tre", Dipartimento di Scienze  
• The aim of the internship was the making of a photographic catalogue of the 150 pinned specimens of beetles (Coleoptera) from the Republic of Namibia (Africa)

## SCIENTIFIC RESPONSIBILITY ON PROJECTS GRANTED BY FUNDING OF PUBLIC COMPETITION NOTICES

- JobOk Soc. Coop. Soc. 2020 Start Up Innovativa a Vocazione Sociale [SIAVS]  
Attachment Q  
• Main aim of this **Start Up** is to create and divulge **formative** and **cultural contents** via use of **innovative approaches and technologies** in order to reduce the socio-economic vulnerability index.  
• Granted by Camera di Commercio di Roma, competition notice "**Bando StartUp - Edizione 2020**"

- JobOk Project*  
2020  
*Attachment R*
- JobOk – Back To The Uni – Nucleo di Gravità Permanente
- Main aim of this **scientific divulgation project** is to allow to young **NEETs, inmates, and invisible disabled** the access to the **academic culture** via use of **innovative approaches and technologies** in order to increase the university populations.
  - rank: 73th on more then 1000 presented projects
  - Granted by *Presidenza del Consiglio dei Ministri*, competition notice "**FERMENTI 2019**"

## PUBLICATIONS

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- Bachelor's Thesis*  
*Attachment S*
- Massa, E.** (2015).  
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*). Università degli Studi "Roma Tre", pp. 32.
- Master's Thesis*  
*Attachment T*
- Massa, E.** (2018).  
Tardigrades of Victoria Land, Antarctica. Taxonomic, Biogeographical and Evolutionary Results. Università degli Studi di Modena e Reggio Emilia, pp. 92.
- Paper in Extenso*  
*Attachment U*
- Guidetti, R., **Massa, E.**, Bertolani, R., Rebecchi, L. & Cesari, M. (2019).  
Increasing Knowledge on Antarctic Biodiversity: New Endemic Taxa of Tardigrades (Eutardigrada; Ramazzottiidae) and Their Evolutionary Relationships. *Systematics and Biodiversity*, 17(6), 573–593. (IF: 2.215)
- Paper in Extenso*  
*Attachment V*
- Vuori, T., **Massa, E.**, Calhim, S. & Vecchi, M. (2020).  
Tardigrades of Finland: an Annotated Checklist and New Record. *Zootaxa*, 4851 (3), 477–521. (IF: 0.931)
- Paper in Extenso*  
*Attachment W*
- Massa, E.**, Guidetti, R., Cesari, M., Rebecchi, L. & Jönsson, K.I. (2020).  
Tardigrades of Kristianstad Vattenrike (Skane, Sweden) with Description of Four New Species. *Scientific Reports*. (IF: 4.576) - Submitted
- Paper In Extenso*  
*Attachment X*
- Guidetti, R., Schill, R. O., Giovannini, I., **Massa, E.**, Goldoni, S. E., Rebecchi, L., Ebel, C., Förschler, M. I. & Cesari, M. Phylogenetic position of *Crenubiotus* within Macrobiotidea (Eutardigrada) and integrative description of *Crenubiotus ruhesteni* sp. nov. *Journal of Zoological Systematics and Evolutionary Research*. (IF: 2.500) - Submitted

## PRESENTATION AT CONGRESSES

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- Abstract*  
*Attachment Y*
- Guidetti, R., **Massa, E.**, Cesari, M., McInnes, S. & Rebecchi, L. (2018).  
Tardigrades of Victoria Land (Antarctica). *14th International Symposium on Tardigrada* (July 30th – August 3rd, 2018 Copenhagen, Denmark)
- Abstract*  
*Attachment Z*
- Massa, E.**, Jönsson, K.I., Rebecchi, L. & Guidetti, R. (2019).  
A Faunistic Survey of Tardigrades in Kristianstad Vattenrike Biosphere Reserve (Sweden). *80° Congresso Nazionale Unione Zoologica Italiana* (September 23rd – 26th, 2019 Rome, Italy)

## PRESENTATION AT SEMINARS

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- December 12th, 2018*  
*Attachment AA*
- "Morphomolecular Taxonomy on Tardigrade, Two Case Studies"  
Kristianstad University (Kristianstad, Sweden)
- The aim of the seminar was to introduce the integrated morphological and molecular taxonomy and its application on systematics and phylogenesis studies, with a report of cases from Antarctica and Sweden

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### ATTENDING TO SCIENTIFIC MEETINGS

- September 23rd – 26th, 2019  
Attachment AB 80th Congress of the Unione Zoologica Italiana  
Rome, Italy
- September 18th – 23th, 2017  
Attachment AC Second Joint Meeting of Société Zoologique de France and Unione Zoologica Italiana  
Turin, Italy

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### ATTENDING TO COURSES

- June 23rd, 2020  
Attachment AD Predatory journals e valutazione della qualità delle riviste: il punto di vista della bibliometria  
Dr. Nicola De Bellis, Università di Modena e Reggio Emilia, Italy
- September 11th – 12th, 2019  
Attachment AE 15th Course for Confocal Microscopy  
SISM at Università di Modena e Reggio Emilia, Modena, Italy

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### ATTENDING TO WEBINARS

- June 11th, 2020  
Attachment AF Biodiversity, resilience, and biocontrol  
Società Entomologica Italiana, Italy
- May 29th, 2020  
Attachment AG Applicazioni della biologia molecolare nello studio delle specie aliene  
Dr. Lucia Piemontese PhD, Università di Modena e Reggio Emilia, Italy
- May 27th, 2020  
Attachment AF I tessuti connettivi mutabili degli echinodermi: dalla ricerca di base alle applicazioni biotecnologiche  
Prof. Michela Sugni, Università di Milano, Italy
- May 7th, 2020  
Attachment AH Orologi Molecolari in Zoologia  
Prof. Omar Rota Stabelli, Edmund Mach Foundation, Italy
- April 23th, 2020  
Attachment AI Tassonomia Molecolare  
Prof. Diego Fontaneto, CNR, IRSA: Water Research Institute, Verbania, Italy

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### ATTENDING TO WORKSHOPS

- October 10th, 2019  
Attachment AJ Brain-Inspired Computing: From Neuroscience to Artificial Intelligence  
Università di Modena e Reggio Emilia, Modena, Italy
- September 13th, 2019  
Attachment AK Reversible Drying: Lessons from Anhydrobiontes  
Università di Modena e Reggio Emilia, Modena, Italy

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### MEMBERSHIP IN SCIENTIFIC SOCIETIES

Unione Zoologica Italiana [UZI] (*Italian Zoological Society*)  
Italian Society for Microscopical Science [SISM]

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### TEACHING ACTIVITIES

- September 2009 – June 2010 Teacher of "Fitocosmesi ed Erboristeria nell'Ambito del Progetto GAIA 2" (*Phytocosmetic and Herbal Medicine within the GAIA 2 Project*) 20 hours  
L.S.S. "Evangelista Torricelli"
- September 2009 – ongoing Home Schooling  
Home teaching and tutoring for primary school, secondary school and university students
- September 2011 – ongoing Acting Coach  
Linearmente, Cinema America Occupato, Teatro Argot Studio

## PROFESSIONAL SKILLS

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Microscopy skills <i>Attachment AL</i>	<p>Digitalization and Production of <b>MultiSteps Images</b></p> <ul style="list-style-type: none"> <li>• macroscope: Leica Z16 APO; camera: Leica DFC 420</li> </ul> <p>Digitalization and Production of Images with <b>Light Microscope (LM)</b></p> <ul style="list-style-type: none"> <li>• microscope: Leica DM RB; camera: Nikon DS-Fi</li> </ul> <p>Digitalization and Production of Images with <b>Scanning Electron Microscope (SEM)</b></p> <ul style="list-style-type: none"> <li>• microscope: Nova Nano SEM 450</li> </ul> <p>Digitalization and Production of 3D Video-Reconstruction and Image with <b>Confocal Laser Scanning Microscope (CLSM)</b></p> <ul style="list-style-type: none"> <li>• microscope: Leica TCS SP2 (AOBS), Leica TCS SP8 (AOBS, WLL, STED 3X, FLIM), Nikon A1</li> </ul>
Molecular skills	<p><b>Extraction of Genomic DNA</b> from animals</p> <p><b>PCR</b> of nuclear and mitochondrial genes</p> <p><b>Gel Purification</b> with Wizard Gel and PCR cleaning (Promega, Madison, WI, USA) kit</p> <p><b>Sequencing Reaction for Genomic DNA</b> with ABIPRISM Big Dye Terminator v. 1.1 Sequencing Kit (Applied Biosystems, Foster City, CA, USA)</p>
Zoological Specimen Preservation and Culturing skills	<p><b>Vertebrate Dry Skins</b> for study and ostension (Taxidermy)</p> <p><b>Entomological Pinned Specimens</b></p> <p><b>Microscope Slide</b> mounted specimens for observation with Light and Confocal Laser Scanning Microscope</p> <p><b>Microscope Stub</b> mounted specimens for observation with Scanning Electron Microscope</p> <p><b>Slide Staining</b> for observation with Light Microscope</p> <p><b>Collecting &amp; Culturing</b> insects, tardigrades, and micrometazoans</p>
Computer Skills	<p><b>Operating Systems:</b> MAC, Windows, Linux</p> <p><b>Imaging:</b> Leica Application Suite LAS vers. 3.7, NIS elements vers. 3.0, Fiji, Huygens Professional 4.1, Adobe Creative Suite</p> <p><b>Genetic:</b> BLAST, MEGA X, FinchTV, FigTree, R</p> <p><b>Geography:</b> QGIS</p> <p><b>Document Preparation System:</b> LaTeX, Office 365 Suite</p>

## LANGUAGES SKILLS

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Languages <i>Attachment AM</i>	<p><b>Italian</b> – Mother Tongue</p> <p><b>English</b> – 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")</p> <p><b>French</b> – A1</p> <p><b>Spanish</b> – A1</p> <p><b>German</b> – A1</p>
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## OTHER SKILLS

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SCUBA <i>Attachment AN</i>	PADI Open Water Diver
Social Skills	Group work predisposition, good teaching, and communication skills
Organizational Skills	Leadership, good ability in the management of groups and projects

## OTHER WORK EXPERIENCES

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<i>June 2020 – Ongoing</i>	<p>President of the JobOk Società Cooperativa Sociale [EX-ONLUS]</p> <p>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</p>
<i>April 2018 – June 2018</i>	<p>Herbalist</p> <p>L'Isola Verde Erboristerie s.r.l. (Via A. Moro, 31, 56010 Lugano di Vicopisano PI, at Centro Commerciale "Torresina", Roma RM, Italy)</p>

Autorizzo il trattamento dei dati personali contenuti nel mio curriculum vitae in base all'art. 13 GDPR 679/16.  
Attachments on request

Modena, December 9th, 2020