

LIVIA TOLVE, Curriculum Vitae (ENG)

EDUCATION

2019/2020 Master graduated in *Conservazione ed Evoluzione* at the University of Pisa (110/110 cum laude), with the thesis *Drone aerial survey: a new method for monitoring sea turtles in offshore areas*; supervisor Prof Paolo Casale

2014/2015 Bachelor graduated in *Scienze Biologiche* (Class L-13) at the University of Florence (110/110 cum laude), with the thesis *Struttura genetica e origine di popolazioni adriatiche della tartaruga marina comune (Caretta caretta) mediante analisi di sequenza del DNA mitocondriale*; supervisor Prof Claudio Ciofi

2011/2012 High school graduated at *Liceo Classico Niccolò Forteguerri*, Pistoia (100/100)

WORKING EXPERIENCE

PhD PON in Evolutionary Biology and Ecology, project title *Sequenziamento di genomi di riferimento di specie non modello per la conservazione della biodiversità e dei servizi ecosistemici Europei*
(Gennaio 2022 – ongoing)

Employee in Ministero della Transizione Ecologica (MITE)
(marzo 2022 – ongoing: at the moment off work for attending the PhD)

Research grant at the Department of Biology (University of Florence), *Analisi di genomica di popolazione di tartaughe marine*
(Febbraio 2021 – Dicembre 2021)

Principal Investigator at Tethys Research Institute –CSR project (Cetacean Sanctuary Research)
(August 2020; July - August 2019; July 2018)

Main activities:

- Data collection about spatial distribution, behaviour and bioacoustics of Delphinidae, Ziphiidae, Mysticeti
- Logistic and administrative coordination of the life on board
- Scientific teaching of the volunteers on board

Part-time collaboration at the University of Pisa, Ludoteca Scientifica
(September – December 2019)

Continuative Autonomous Collaboration as Dialoger at Amnesty International
(January - February 2019)

SCIENTIFIC RESEARCH EXPERIENCES IN LABORATORY

Molecular Ecology Laboratory, University of Florence

Main activities:

- Genomic DNA extraction from animal necropsies and biopsies
- Polymerase Chain Reaction of mitochondrial DNA
- Electrophoresis on agarose gel
- Mitochondrial DNA sequencing by means of capillary electrophoresis (ABI3130 Genetic Analyzer)
- Genomic libraries preparation and sequencing on Illumina platforms
- Bioinformatic analysis of genetic data

FIELDWORK EXPERIENCES

Within the master thesis internship, data collection about distribution at sea of marine turtles by means of aerial drone survey
(September – October 2017; June – September 2018)

Fieldwork in Lampedusa, within the Life project *Euroturtles: collective actions for improving the conservation status of the EU sea turtles populations*
(September - October 2017, June – September 2018)

Main activities:

- Cooperation with fishermen, diving centers and touristic boats for the sharing of capture data and position data of turtles at sea
- Divulcation among tourists and locals about conservation and biology of sea turtles
- Data collection by means of questionnaires, about public perception and willingness to pay for marine environment conservation

Research assistant at Tethys Research Institute – CSR project (Cetacean Sanctuary Research)
(summer 2014, 2015, 2016, 2017, 2018)

Principali attività:

- Collaboration in the data collection about spatial distribution, behaviour and bioacoustics of Delphinidae, Ziphiidae, Mysticeti
- Logistic coordination of the volunteers activities and the life on board

SCIENTIFIC PUBLICATIONS

Agabiti et al. Combining UAVs and multi-sensor dataloggers to estimate fine-scale sea turtle density at foraging areas: a case study in the central Mediterranean. *Endang Species Res.* 2024; 54:395-408. <https://doi.org/10.3354/esr01350>

Ballini et al. Early detection of rare and elusive endangered species using environmental DNA: a case study for the Eurasian otter and the white-clawed crayfish in northwestern Italy. *Conservation Genetics.* 2024; 25, 999–1005. <https://doi.org/10.1007/s10592-024-01619-5>

Tolve, L, Iannucci A et al. Whole mitochondrial genome sequencing provides new insights into the phylogeography of loggerhead sea turtles (*Caretta caretta*) in the Mediterranean. *Mar Biol.* 2023; 171:19. <https://doi.org/10.1007/s00227-023-04325-x>

Casale, P, Ciccocioppo, A, Vagnoli, G, et al. Citizen science helps assessing spatio-temporal distribution of sea turtles in foraging areas. *Aquatic Conserv: Mar Freshw Ecosyst.* 2020; 30: 123– 130. <https://doi.org/10.1002/aqc.3228>

Tolve, L, Casale, P, Formia, A, et al. A comprehensive mitochondrial DNA mixed-stock analysis clarifies the composition of loggerhead turtle aggregates in the Adriatic Sea. *Mar Biol.* 2018; 165: 68. <https://doi.org/10.1007/s00227-018-3325-z>

CONTRIBUTIONS AT SCIENTIFIC CONFERENCES

Oral presentation at SIBE (Società Italiana di Biologia Evoluzionistica) Congress 8 - 11 September 2024, Napoli: Disentangling the global phylogeography of *Caretta caretta* by whole mitochondrial DNA analysis

Poster presentation at the 83° UZI (Unione Zoologica Italiana) Congress 11 – 14 September 2024, Pisa: Preliminary inference of patterns of loggerhead sea turtle colonization of the Tyrrhenian coastline using mitochondrial genome analysis

Poster presentation at the 33° Congresso Nazionale SItE (Società Italiana di Ecologia) 23 -26 September 2024, Roma: Preliminary inference of patterns of loggerhead sea turtle colonization of the Tyrrhenian coastline using mitochondrial genome analysis

Oral presentation at the Virtual Congress EVOLMAR 2023, 14 -17 November 2023 Whole mitochondrial genome sequencing provides new insights into the phylogeography of loggerhead turtles (*Caretta caretta*) in the Mediterranean Sea

Oral presentation, 41st International Sea Turtles Symposium Cartagena de Indias, Colombia, 2023. Whole mitochondrial genome sequencing provides new insights into the phylogeography of loggerhead sea turtles (*Caretta caretta*) in the Mediterranean.

Oral presentation, 9th SIBE Congress, Ancona, 2022. Whole mitochondrial genome sequencing provides new insights into the phylogeography of loggerhead sea turtles (*Caretta caretta*) in the Mediterranean.

Poster presentation, 6th Mediterranean Conference on Marine Turtles. Porec, Croatia 2018: *UAV offshore aerial survey for abundance estimates of sea turtles: a case study in Lampedusa island, Italy.*

A conoscenza di quanto prescritto agli art 46 e seguenti del D.P.R. 28 dicembre 2000 n. 445, sulla responsabilità penale cui può andare incontro in caso di falsità in atti e di dichiarazioni mendaci, nonché di quanto prescritto dall'art. 75 del D.P.R. 28 dicembre 2000 n. 445, sulla decadenza dai benefici eventualmente conseguenti al provvedimento emanato sulla base di dichiarazioni non veritiere, ai sensi e per gli effetti del citato D.P.R. n. 445/2000 art 46, e sotto la propria personale responsabilità dichiaro che tutte le informazioni contenute nel proprio curriculum vitae sono veritiere. Presto consenso all'utilizzo dei dati personali in conformità al Regolamento Generale sulla Protezione dei Dati (RGPD) n. 679/2016 ed al D.Lgs. 10 agosto 2018, n. 101 in materia di protezione dei dati personali