

Laura Corbari

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Gender: Female

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WORK EXPERIENCE

PhD student

University of Palermo - Unipa [02/02/2021 – Current]

City: Palermo

Country: Italy

PhD course: Chemical, Environmental, Biomedical, Hydraulic and Materials Engineering, D084

Department: Engineering

Collaborator

Ingegneria Integrata Ambientale s.r.l [25/08/2020 – 02/10/2020]

City: Palermo

Country: Italy

Scholarship

Laboratory of Ecology, Earth and Marine Sciences Department, University of Palermo - Unipa [01/02/2020 – 31/07/2020]

City: Palermo

Country: Italy

Traineeship

Randbee Consultants [15/04/2019 – 15/07/2019]

City: Màlaga

Country: Spain

Data cleaning, formatting, software testing and debugging. Collaboration in Company projects.

EDUCATION AND TRAINING

Master's degree in Environmental Engineering (LM-35)

University of Palermo - Unipa [18/11/2016 – 15/03/2019]

Address: 61, Piazza Marina, 90133 Palermo (Italy)

Final grade: 110/110 *cum laude*

Thesis title: "Spectral description techniques of macroplastics and microplastics: potential of remote sensing"

Supervisors: Prof. Ing. Giuseppe Ciruolo and Prof. Ing. Gaspare Viviani

Italian degree similar to a bachelor's degree in Environmental Engineering (L-7)

University of Palermo - Unipa [19/09/2011 – 29/03/2016]

Address: 61, Piazza Marina, 90133 Palermo (Italy)

Thesis title: "Discharges to the sea with submarine pipelines: a case study of the city of Trapani"

Supervisor: Prof. Ing. Gaspare Viviani

High school diploma in Socio-Psycho-Pedagogical

G.A De Cosmi [09/2006 – 09/07/2011]

Address: 15, via Leonardo Ruggeri, 90135 Palermo (Italy)

LANGUAGE SKILLS

Mother tongue(s):

Italian

Other language(s):

English

LISTENING B2 READING B2 WRITING B2

SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2

Spanish

LISTENING A2 READING A1 WRITING A1

SPOKEN PRODUCTION A1 SPOKEN INTERACTION A1

DIGITAL SKILLS

Operating systems

Windows, MacOS, Linux

Software

Bash programming / MaTLab/Octave (applied mathematical algorithms) / Libre Office / Open Office / Microsoft Office / RStudio

CAD

AUTOCAD / CABRI

Geographic information system

GIS software: ArcGIS, QGIS / Google Earth / GeoServer

Remote sensing

Sentinel Application Platform (SNAP) / Erdas Imagine

RECONnet

Risknet

3d hydrodynamic modeling

open source Hydrodynamic models (Panormus)

Hydrologic Engineering Center (HEC)

HEC-RAS - HEC-HMS

Database management system

PostgreSQL

Scientific visualization

Paraview

Communication and collaboration platforms

Google Meet / Microsoft Teams / Skype / Zoom

PUBLICATIONS

The Synergistic Impacts of Anthropogenic Stressors and COVID-19 on Aquaculture: A Current Global Perspective

[2021]

<https://doi.org/10.1080/23308249.2021.1876633>

Reviews in Fisheries Science and Aquaculture, Taylor and Francis Online

Indoor spectroradiometric characterization of plastic litters commonly polluting the Mediterranean Sea: toward the application of multispectral imagery

[2020]

<https://doi.org/10.1038/s41598-020-74543-6>

Scientific Reports, Nature research

PRESENTATIONS

Speaker at the conference: "Meeting of PhD students and young researchers in Ecology and Aquatic Systems Sciences"

[15/04/2021]

Title of the presentation: "Microplastics indoor spectroradiometric characterization of commonly polymers polluting the Mediterranean Sea"

Organizer: Associazione Italiana di Oceanologia e Limnologia (AIOL) and Società Italiana di Ecologia (SIe)

Speaker at the conference: "Environment and health: an overview - Pollution prevention measures applying the best available techniques. The environmental impact"

[18/10/2019]

Organizer: Association of Engineers of the Province of Palermo (Italy)

CONFERENCES AND SEMINARS

Fighting the ocean plastic pollution with the use of satellite images and drone data: Plastic Litter Project (PLP), history and future steps

[Webinar, 19/03/2021]

Speaker: Kostantinos Topouzelis, University of the Aegean

Atlantic International Research Centre

Hyperspectral Web-Cafe: le immagini iperspettrali Made in Italy

[Webinar]

Planetek Italia in collaboration with ASI, INGV e CNR-IREA, 08/10/2020, 15/10/2020, 22/10/2020, 29/10/2020, 05/11/2020, 19/11/2020, 03/12/2020

Copernicus Marine Service Training Workshop for the Mediterranean Sea

[Webinar, 03/07/2020]

Mercator Ocean International, Dvokut-Ecro, The National Research Council (CNR – Italy) and the EuroMediterranean Center on Climate Change (CMCC)

Aquaculture and Marine Spatial Planning

[Webinar, 29/05/2020]

General Fisheries Commission for the Mediterranean - GFCM

Marine litter, micro-plastic and sea pollution: state of art, perspectives and use of HF radars

[University of Palermo - Unipa, Pozzallo (Italy), 11/12/2019]

Understand our planet: the Earth observation programme of the European Space Agency

[University of Palermo - Unipa, Palermo (Italy), 25/10/2019]

The days of hydrology 2017- Extreme Hydrological events in a changing Environment

[Favignana, Italy, 21/06/2017 – 24/06/2017]

Italian Hydrological Society, University of Palermo - Unipa, University of Catania - Unica, University of Messina - Unime, Palermo (Italy)

New trends and research perspectives towards a more sustainable environment

[University of Palermo - Unipa, Palermo (Italy), 14/03/2014]

Eco-hydrology of Mediterranean ecosystems

[University of Palermo - Unipa, Palermo (Italy), 07/01/2014 – 11/01/2014]

Sustainable building: Energy and materials

[University of Palermo - Unipa, Palermo (Italy), 07/03/2013]

The Order of Engineers and Civil Protection

[University of Palermo - Unipa, Palermo (Italy), 29/10/2011]

COURSES

English for Life C1

[28/10/2020 – Current]

School: British Institutes, Palermo

Thermography course

[18/02/2021 – Current]

Lecturer: Prof. Antonino Maltese

University of Palermo - Unipa

Building your reputation through research products: Planning, Drafting, Revising, Publishing and Disseminating your scientific papers

Lecturer: Dr. Davide Lo Presti

University of Palermo - Unipa

Dates: 19/03/2021 and 26/03/2021

English for Life B2

[28/10/2019 – 27/05/2020]

School: British Institutes, Palermo

Advanced MATLAB course

[31/07/2017 – 04/08/2017]

Scuola di Calcolo Scientifico MATLAB 2017, University Unipa's spin-off company, Palermo (Italy)

Main goals:

- the different ways of parallelizing the code;
- the Task-Parallel Job;
- the Data-Parallel Job;
- the explicit parallelization of the low-level code;
- the integration of MATLAB in the GPU environment;
- Machine Learning;
- Big Data Analytics.

Basic MATLAB course

[24/07/2017 – 28/07/2017]

Scuola di calcolo scientifico MATLAB 2017, University Unipa's spin-off company, Palermo (Italy)

Main goals:

- the basics of the MATLAB interface;
- the scripting language;
- the graphics, also 2D and 3D;
- programming;
- fundamentals of scientific calculation, with particular attention to matrix calculus, numerical interpolation, numerical differentiation and integration, and numerical solution of ordinary differential equations.

JOB-RELATED SKILLS

Job-related skills

I like learning something new every day and spending my time in projects that improve my cultural and professional level. I am able to take advantage of the working context. I believe in constructive and productive interaction among the team. I believe also that multicultural interaction is a source for my personal growth.

ORGANISATIONAL SKILLS

Organisational skills

Good organizational and management skills acquired in the university context. I am able to relate and work in teamwork and, in some cases, to be the leader in making proposals to speed up the team work. I also have problem-solving skills in complex contexts.

I can organize my work in an orderly and timely manner. I am precise and able to meet the deadlines set at the beginning of the job.

COMMUNICATION AND INTERPERSONAL SKILLS

Communication and interpersonal skills

Good communication skills and adaptation capacities strengthened by sports and by training activities.

OTHER SKILLS

Other skills

I have dedicated my free time doing sports such as swimming and tennis for a total of seven years. Thanks to this, I have improved cooperation skills in teamwork and the commitment to achieve the set goals.

DRIVING LICENCE

Driving Licence: B

PROCESSING OF PERSONAL DATA

Processing of personal data

In compliance with the GDPR and Italian Legislative Decree no. 196 dated 30/06/2003, I hereby authorize the recipient of this document to use and process my personal details for the purpose of recruiting and selecting staff and I confirm to be informed of my rights in accordance to art. 7 of the above mentioned Decree.