

WORK EXPERIENCE

Laboratory assistant (agri-food sector)

Molino Moras srl, Via Palma 40, 33050 Trivignano Udinese (UD), Italy

December 2017 – December 2018

Main activities and responsibilities: quality control in the milling industry. Lab analysis using thermobalance, IR analyzer, Chopin alveograph, falling number, muffle, lab mill and kit for quick detection of mycotoxins. Data collection and report, development and revision of internal quality control protocols, archiving of documents and samples, report of lab activities.

Students' tutor

Università degli Studi di Udine, Palazzo Florio - Via Palladio 8, 33100 Udine, Italy

October 2016 – September 2017

Main activities and responsibilities: help students plan their studies and help them find information on courses, as well as extra-activities (i.e. workshops, summer schools, language courses and study experiences abroad). Collect students' impressions about their academic experience.

Field worker

Società agricola Unterholzner di Gualtiero e Ivo, Via Ferrara 55/1, 33050 Mortegliano (UD), Italy

August – September 2014 and August – September 2013

Main activities and responsibilities: apple harvest.

EDUCATION AND TRAINING

M.S. in Agricultural science and technology (graduated with honors)

Università degli Studi di Udine, Italy

September 2015 – December 2017

Thesis, developed at Oregon State University, USA: Steps toward map-based cloning of the incompatibility locus in hazelnut (*Corylus avellana* L.) including development and characterization of new microsatellite markers.

The first part of the project consisted of computer work and included the following main steps: the search for nucleotide repeats within hazelnut genomic sequences; in-silico polymorphism screening of di-nucleotide repeats; the design of forward and reverse primers for polymorphic di-nucleotide SSRs. The second part of the task was focused on lab work and two main techniques were used: polymerase chain reaction (PCR), to amplify the polymorphic di-nucleotide loci, and gel electrophoresis, to separate the amplicons. Gel pictures were visually screened for polymorphism. Fluorescent primer pairs were used to amplify SSRs which showed the expected two alleles and the amplicons were separated by means of capillary electrophoresis. The data from the capillary electrophoresis was used to carry out the third and last step of the project, consisting of genotyping and characterization of the SSR loci.

1st level Master's degree in Coffee economics and science - Ernesto Illy (graduated with honors)

Università degli Studi di Trieste, Università degli Studi di Udine, Illycaffè SpA, Italy

January 2015 – October 2015

Lecture, given at the Coffee Cluster, EXPO Milan 2015: Coffee Botany and Physiology.

Thesis: The effects of climate change on coffee and the measures to face them.

Overview of the main threats to coffee cultivation brought about by climate change and potential solutions for the short and long term.

B.S. in Environmental science (graduated with honors)

Università degli Studi di Udine, Italy

September 2011 – July 2014

Internship: Hands-on experience in the fields of plant biochemistry and physiology. Use of balances, pHmetres, centrifuges and ultracentrifuges, spectrophotometers and spectrofluorometers. Isolation and purification of organelles and membranes from plant tissues. Production and development of cell cultures.

Thesis: *Plant stresses: the role of mitochondria*.

Studies on the role of mitochondria in plant cell death, including the evaluation of mitochondrial transmembrane electric potential, mitochondrial swelling and Ca²⁺ transport.

SKILLS

Technical skills

- Proficient lab skills in the fields of plant and food science;
- Intermediate knowledge of bioinformatics and biostatistics software: GMATo, Tablet, SAMtools, ClustalW, BLASTn, BatchPrimer3, GeneMapper, PowerMarker, Cervus;
- Intermediate knowledge of GIS and image processing software: ArcGIS, QGIS, LEOWorks.

Languages

Mother tongue Italian, fluent English (TOEFL iBT, 2018) and Spanish (DELE B2, 2010), intermediate French and basic German.

Social skills

Excellent relational and communicative skills developed during my years as a student and in my international experiences. In particular, the following collaborations with international colleagues stand out: Workshop Tagliamento (Università degli Studi di Udine, Zurich University of Applied Sciences; 2013), Summer School Geography of Food (Università degli Studi di Udine, Zurich University of Applied sciences, Khon-Kaen University Thailand; 2014), International Master in Coffee economics and science – Ernesto Illy (2015), M.S. thesis developed in the United States (Oregon State University; 2017).