



**DOCTORATE COURSE:
"Biotechnology and smart practices for a sustainable management of natural
resources, food and agriculture"**

INDIVIDUAL EDUCATIONAL PLAN

CYCLE XXXVIII

STUDENT	Eleonora Di Palma
TUTOR	Prof. Antonio Derossi (AGR/15)
CO-TUTOR	Prof.ssa Carla Severini – DAFNE (AGR/15)

CURRICULUM	1. Sustainable Agriculture, Natural Resources and Biodiversity <input type="checkbox"/> 2. Emerging Technologies for Ensuring Food Quality and Safety <input checked="" type="checkbox"/>
AREA OF RESEARCH INTEREST	This project commits to explore di application of robotics in food processes, especially the food kneading, evaluating the opportunities and benefits of this new innovative solution. Also, another aspect that it will be evaluated is the application of 3D Food Printing by integrating it with robotics arms in order to study how this improvement will affect the characteristics of the 3D samples.
PROVISIONAL TITLE of the RESEARCH PROJECT	Precision food manufacturing by intelligent and flexible processing



DOCTORAL SCHOLARSHIP	Ateneo <input type="checkbox"/> DM 351 <input type="checkbox"/> DM 352 X PNRR Agritech <input type="checkbox"/> Comunale <input type="checkbox"/>
TRAINING PERIOD OUTSIDE UNIFG (company, other Italian Institution)	Azienda Innova Automazione e Robotica – Via Vittorio Emanuele II n.148, 35018 San Martino di Lupari (PD), Italia During the II and III year of the Ph.D. program
TRAINING PERIOD ABROAD	The training period abroad hasn't been agreed yet. This aspect will be confirmed in the next months.

MANDATORY COURSES	YEAR OF COURSE	CV	HOURS/CREDITS	PROFESSOR
Informative systems and data elaboration: descriptive statistics	1 st	1, 2	16 HR/2 ECTS	Fabio SANTERAMO
Informative systems and data elaboration: experimental design	1 st	1, 2	24 HR/3 ECTS	Giuseppe GATTA
Basics of programming	1 st	1, 2	16 HR/2 ECTS	Annalisa MASTROSERIO
Advanced statistic	2 nd	1, 2	20 HR/ 2 ECTS	Massimo MONTELEONE
OPTIONAL COURSES at choice at least 2 (4 ECTS)	YEAR OF COURSE	CV	HOURS/CREDITS	PROFESSOR and INSTITUTION
The optional course isn't decided yet. It will be chosen between the courses reported below.				



UNIVERSITÀ
DI FOGGIA

DOCTORATE "BIOTECHNOLOGY AND SMART PRACTICES FOR A
SUSTAINABLE MANAGEMENT OF NATURAL RESOURCES, FOOD AND
AGRICULTURE"

Dipartimento di Scienze Agrarie, Alimenti, Risorse Naturali e Ingegneria
Università di Foggia

Robotics I	2 nd	2	60 HR/6 ECTS	Alessandro De Luca (Università degli Studi di Roma "La Sapienza")
Coding for Everyone: C and C++ Specialization	2 nd	2	Online course	University of California Santa Cruz
Python 3 Programming Specialization	2 nd	2	Online course	University of Michigan
Python Basics	2 nd	2	Online course	University of Michigan
Robotics Lab	2 nd	2	60HR/6 ECTS	Jonathan Cacace (Università degli Studi di Napoli Federico II)
Others				

Doctoral Student

*Eleonora
Di Biase*

Tutor

Antonio De Luca