

ZAYNAB KHANNAFER

AGRICULTURAL ENGINEER



MONTPELLIER, France



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SKILLS

- GAMS Modeling
- QGIS
- MS programs skills
- Data analysis and researching
- On-field researcher
- Communication and collaboration skills
- Management and leadership skills

ACTIVITIES

PRESENTER, BIOPHYSICAL MODEL – NATAE WORKSHOP WP2

Presented the Biophysical Model in NATAE workshop WP2 – LL Leaders and Workshop Agenda.

PARTICIPANT, AFID2023 MEETING ON AGRI-FOOD INNOVATION DAYS

Attended AFID2023 to discuss advancements in Agri-Food technology and sustainability

PARTICIPANT, PRIMA PROGRAM WORKSHOP ON MEDITERRANEAN DIET PRINCIPLES

Participated in a workshop led by the PRIMA program focused on the main principles of the Mediterranean diet

MEMBER, ENGLISH ACCESS MICROSCHOLARSHIP PROGRAM

Sponsored by the U.S. Embassy, Lebanon

ABOUT ME

Agricultural engineer with strong academic background in agricultural economics, quantitative modeling, and field research focused on optimizing sustainable farming systems. I seek to implement knowledge and experiences in field research and advanced modeling techniques, as much as possible in modeling complex agricultural scenarios, analyzing adaptation strategies under climate stress, and developing innovative solutions to enhance food security in Mediterranean regions.

WORK EXPERIENCE

CIHEAM-IAMM

Apr 2024 - Sep 2024
France

INTERNSHIP WITH NATAE PROJECT

- Developed a standalone model using GAMS to simulate yield under water stress.
- Calibrated the model using data from Tunis-Cebalat area and got good results for yield and biomass.
- Prepared the model to be integrated as the Biophysical module of the DAHBSIM model.

FONDAZIONE GIOVANNI PAOLO II

Jul 2023 - Aug 2023
Lebanon

FIELD RESEARCHER FOR “ROOTS” PROJECT

- Organized and prepared materials for daily on-field surveys and baselines.
- Communicated and interacted with farmers to fill in data, in collaborative manner.
- Proceeded with data cleaning and entry into the suitable application used.

EDUCATION

CIHEAM-IAAM
2024

MASTER 2 DATEM: MASTER OF ECONOMICS

- Thesis: “Development of a Climate-Responsive Water Stress Model for Yield and Biomass Simulations: An Integration with DABHSIM Model.”
- Relevant coursework includes GAMS modeling, spatial analysis using QGIS, field survey techniques and quantitative data analysis.

Lebanese University
2023

MASTER 1 IN AGRICULTURAL ECONOMICS

- Relevant coursework includes microeconomy, sustainable projects development and cost analysis.

Lebanese University
2022

BACHELOR IN AGRICULTURAL ECONOMICS AND RURAL DEVELOPMENT

- Relevant coursework includes econometrics, marketing, hydraulics, and rural development.

Lebanese University
2021

BACHELOR IN BIOCHEMISTRY

- Relevant coursework includes bioinformatics, ecology, statistics and structural biochemistry.