Abderrahim BOUHENACHE

29 years old, born May 26, 1995 in Mila (Algeria)

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Agronomy Engineer

PhD student at the university of Reims and at CIRAD

for a more detailed *CURRICULUM VITAE* , click here

My skills focus on sustainable plant production and agroecology. I am trained in experimentation and agricultural surveys, passionate about the field and I have a strong interest in crop modeling. Able to deal with different themes at scales ranging from the plant to the territory with a "cropping system" focus. I am also interested in issues of resilience and adaptation to climate change.

PROFESSIONAL EXPERIENCE

Sep. 2022 - Today (Temporary contract as PhD student)	**The university of Reims Champagne-Ardenne (URCA)** **Mixed Research Unit FARE** – Reims (51) and **Researh Unit AIDA** - Montpellier (34) Subject: Impact of climate change on production and recycling of crop biomass and soil nitrogen use: a case study with maize under extreme rainfall events ▪ Preparation and implementation of a field rainfall manipulation experiment in Zimbabwe ▪ Monitoring, sampling and analyzing of soil and plants ▪ Statistical analysis and modeling using the STICS soil-crop model
Feb. 2022 - Aug. 2022 (Temporary contract as studies engineer)	**L'Institut Polytechnique UniLaSalle - Research Unit AGHYLE** - Beauvais (60) Subject: Agronomic, economic and environmental assessment of cropping systems designed to supply the methanization sector ▪ Analysis of the results of cropping system trials ▪ Drafting of synthesis documents ▪ Participation in project meetings and in organization of technical days
Nov. 2020 - Nov. 2021 (12 month temporary contract)	**L'institut agro AGROCAMPUS OUEST - Mixed Research Unit SAS 1069** - Rennes (35) **Sub**ject: Design and *ex ante* assessment of diversified cropping systems to increase the provision of ecosystem services of interest in a crop-livestock region. ▪ Bibliography and conceptual modeling of the effects of diversified cropping systems on ecosystem services ▪ Co-design of diversified cropping systems with local actors
Apr. 2020 - Sep. 2020 (6 month internship)	**Institut national de recherche pour l'agriculture, l'alimentation et l'environnement (INRAE) - Mixed Research Unit AGIR 1248** - Toulouse (31) Subject: Multi-criteria assessment of climate change adaptation scenarios for the sunflower crop ▪ Development of simple epidemiological models for sunflower diseases ▪ Simulation of risk trends according to adaptation strategies under future climate ▪ Multi-criteria assessment (production, environment and health risk) of strategies
Feb. 2019 - Jul. 2019 (6 month internship)	**Technical Institute of Field Crops /** The **Higher National Agronomic School** - Algiers Subject: Effects of the chickpea-durum wheat intercropping on water and nitrogen use efficiency ▪ Design, installation and monitoring of a multi-site experiment ▪ Sampling and laboratory analyzes (nitrogen in the soil and plants, protein dosage, etc.) ▪ Statistical analysis of data and preliminary simulations of the water balance

EDUCATIONAL BACKGROUND

2020	**Master 2 CIHEAM-IAM / Paul-Valéry University Montpellier III** - Montpellier (France) Mention **« Territorial management and local development »**, course **« Agricultural management and Territories »** Ranking: 1/15 students
2019	**Master 2** of the **Higher National Agronomic School (ENSA)** - Algiers (Algeria) Speciality **« Genetic resources and improvement of plant production »** Ranking: 1/19 students
2019	**Agronomy engineer** of the **Higher National Agronomic School (ENSA)** - Algiers (Algeria) Speciality **« Plant production and improvement »** Ranking: 2/19 students

KNOWLEDGE AND SKILLS

Programming languages
- R ●●●●○ (in progress)
- C# ●●○○○
- GAMS ●●○○○

Crop modeling
- APSIM ●●●●○
- STICS ●●●○○ (in progress)
- CropSyst ●●○○○

ModelBuilder (platform)

Statistics
- Statistica
- Tanagra
- R

Cartography
- QGIS
- ArcGIS
- R packages: sf, raster et Whitebox

Languages
- English (B2.3 CEFR)
- French (bilingual)
- Arabic (native language)

Soft skills
- Autonomous, serious and responsible
- Scientific rigor, team spirit
- Learning and synthesis skills

PUBLICATIONS

1. Kherif O, Seghouani M, Justes E, Plaza-Bonilla D, **Bouhenache A**, Zemmouri B, Dokukin P, Latati M. The first calibration and evaluation of the STICS soil-crop model on chickpea-based intercropping system under Mediterranean conditions. *Eur. J. Agron.*. 2022; 133. https://doi.org/10.1016/j.eja.2021.126449
2. Kherif O, Seghouani M, Zemmouri B, **Bouhenache A**, Keskes MI, Yacer-Nazih R, Ouaret W, Latati M. Understanding the Response of Wheat-Chickpea Intercropping to Nitrogen Fertilization Using Agro-Ecological Competitive Indices under Contrasting Pedoclimatic Conditions. *Agronomy*. 2021; 11(6):1225. https://doi.org/10.3390/agronomy11061225

OTHERS

- Representative of non-titular staff at the UMR AIDA

- Representative of non-titular staff at the UPR SAS

- Grant for the Master GAT of CIHEAM-IAMM in 2019

CENTERS OF INTEREST

- Football, North African and Mediterranean cuisine, travel and long journeys.