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

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	The university of Reims Champagne-Ardenne (URCA)
Sep. 2022 - Today	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
	L'Institut Polytechnique UniLaSalle - Research Unit AGHYLE - Beauvais (60)
Feb. 2022 - Aug. 2022 (Temporary contract as studies engineer)	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
	L'institut agro AGROCAMPUS OUEST - Mixed Research Unit SAS 1069 - Rennes (35)
Nov. 2020 - Nov. 2021	Sub ject: Design and <i>ex ante</i> assessment of diversified cropping systems to increase the provision of ecosystem services of interest in a crop-livestock region.
(12 month temporary contract)	 Bibliography and conceptual modeling of the effects of diversified cropping systems on ecosystem services Co-design of diversified cropping systems with local actors
	Institut national de recherche pour l'agriculture, l'alimentation et l'environnement (INRAE) - Mixed Research Unit AGIR 1248 - Toulouse (31)
Apr. 2020 - Sep. 2020	Subject: Multi-criteria assessment of climate change adaptation scenarios for the sunflower
(6 month internship)	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)

efficiency Design, installation and monitoring of a multi-site experiment

Sampling and laboratory analyzes (nitrogen in the soil and plants, protein dosage, etc.)

Subject: Effects of the chickpea-durum wheat intercropping on water and nitrogen use

Statistical analysis of data and preliminary simulations of the water balance

Technical Institute of Field Crops / The **Higher National Agronomic School** - Algiers

EDUCATIONAL BACKGROUND

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
Master 2 of the Higher National Agronomic School (ENSA) - Algiers (Algeria)
Speciality « Genetic resources and improvement of plant production »
Ranking: 1/19 students
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

.anguages



Cartography

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



Soft skills

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

- - Autonomous, serious and responsibleScientific rigor, team spirit
 - Scientific rigor, tearrispirit
 - 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
- 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 SAS
- Representative of non-titular staff at the UPR AIDA
- Grant for the Master GAT of CIHEAM-IAMM in 2019

CENTERS OF INTEREST

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