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
in	
surveys, passionate	stainable plant production and agroecology. I am trained in experimentation and agricultural e about the field and I have a strong interest in crop modeling. Able to deal with different inging from the plant to the territory with a "cropping system" focus. I am also interested in issues of resilience and adaptation to climate change.
	The university of Reims Champagne-Ardenne (URCA) Mixed Research Unit FARE – Reims (51) and Researh Unit AIDA - Montpellier (34)
Sep. 2022 - Today (Temporary contract as PhD student)	 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 (12 month temporary contract)	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.
	 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 (6 month internship)	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
	Technical Institute of Field Crops / The Higher National Agronomic School - Algiers
Feb. 2019 - Jul. 2019	Subject: Effects of the chickpea-durum wheat intercropping on water and nitrogen use efficiency
(6 month internship)	 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

	Master 2 CIHEAM-IAM / Paul-Valéry University Montpellier III - Montpellier (France)
2020	Mention « Territorial management and local development », course « Agricultural management and Territories »
	Territories » Ranking: 1/15 students
	Master 2 of the Higher National Agronomic School (ENSA) - Algiers (Algeria)
2019	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 ••••



Statistics

- Statistica
- Tanagra
- R



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



Crop modeling

- APSIM ••••
 - STICS
 STICS
 STICS
- CropSyst
- ModelBuilder (platform)



Cartography

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



Soft skills

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

PUBLICATIONS

- 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. <u>https://doi.org/10.1016/j.eja.2021.126449</u>
- 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. <u>https://doi.org/10.3390/agronomy11061225</u>

OTHERS

- Representative of non-titular staff at the UPR AIDA
- Representative of non-titular staff at the UMR SAS
- Grant for the Master GAT of CIHEAM-IAMM in 2019

CENTERS OF INTEREST

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