

# Abderrahim BOUHENACHE

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

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## Young agronomist

### looking for an Engineer or Research engineer position in systemic agronomy

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" preference. I am also interested in issues of resilience and adaptation to climate change.

## PROFESSIONAL EXPERIENCE

### Mixed Research Unit SAS 1069 - Rennes (35)

Nov. 2020 - Nov. 2021  
(13 month temporary contract)

Project : 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
- Simulations using the APSIM model

### 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

Project : ACCAF-OPERATE (crOP disEase Response to climATE change adaptation)

- 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

### CIHEAM-IAMM / QUALISOL cooperative - Tarn-et-Garonne (82)

Jan. 2020  
(collective internship)

Subject : Assessment of phytosanitary practices and economic performance of farms in the Tarn-et-Garonne

Project : GesPPEIR

- Survey on the use of phytosanitary products
- Introduction of the ETOPhy tool and IRSA and IRTE risk indicators to local farmers

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

Feb. 2019 - Jul. 2019  
(6 month internship)

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

Project : ARIMNet2-SEMIARID (Sustainable and Efficient Mediterranean farming systems: Improving Agriculture Resilience through Irrigation and Diversification)

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

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



### Soft skills

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

## OTHERS

- Grant for the Master GAT of CIHEAM-IAMM in 2019
- Representative of non-titular staff at the UMR SAS
- Driving license B (since 2013)

## PUBLICATIONS

1. 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>
2. Kherif O, Seghouani M, Justes E, Plaza-Bonilla D, **Bouhenache A**, Zemmouri B, Dokukin P, Latati M. The first calibration of the STICS soil-crop model on chickpea-based intercropping system under Mediterranean conditions. *European Journal of Agronomy*. Manuscript under review.

## CENTERS OF INTEREST

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