

# Curriculum Vitae

**Lafta Awad Atshan**

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## Education and Qualification:

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1. Degree: Doctorate of plant protection- Agricultural (Australia).  
Institution: Al-Muthanna University, Iraq  
Thesis Topic: **Multispectral and Thermal Imagery Approaches to Pest and Disease Detection in Horticultural Crops.**  
Passed: 2021
  2. Degree: Master of Plant Protection [Joint Degree Program].  
Institution: Basrah University, Iraq (Coursework).  
& Department of international Cooperation and Exchange:  
Huazhong Agricultural University, China (Research).  
Thesis Topic: **Effect of some plant extracts on the Biological Performance of the Greater Wax Moth (*Galleria mellonella* L.) and using sex pheromone in pest control.**  
Passed: 2011
  3. Degree: B.Sc. of Plant Protection.  
Institution: Basrah University. College of Agriculture, Iraq.  
Passed: 1998
- Scholarship:**
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1. The Iraqi Government “Ministry of Higher Education and Scientific Research (MOHESR) and Al-Muthanna University are scholarship holders during my Ph.D. study at the Central Queensland university, Australia.
2. The Ministry of Higher Education and Scientific Research (MOHESR) “Graduate Research Assistant Scheme” and Basrah University were also holders during the period of M.Sc study.
3. The Ministry of Higher Education and Scientific Research (MOHESR) and Basrah University were holders during the period of B. Sc study.

## Employment Summary:

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1. Position: Lecturer  
College: College of Agriculture, plant of protection  
Institution: Al- Muthanna University.  
Duration: 2022 – to present.
2. Position: PhD student.  
School: Health, Medical and Applied Sciences.  
Institution: Central Queensland University.  
Duration: 2014 – 2021.  
Using hand-held, drone based remotely sensed images, hyperspectral and thermal camera imaging for crop monitoring to detect plant stress due to diseases and pests.
3. Position: Head of plant protection department, Agricultural college. Al-Muthanna University. The Ministry of Higher Education and Scientific Research (MOHESR).  
Department: Plant of production  
Institution: Al-Muthanna University

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- Duration: 2012- 2014.
4. Position Lecturer at the plant protection department, Agricultural college. Al-Muthanna University. The Ministry of Higher Education and Scientific Research (MOHESR).
- Department Plant production  
Institution Al-Muthanna University  
Duration 2011- 2012.
5. Position: Researcher at the plant protection department, Agricultural college. Al-Muthanna University. Ministry of Higher Education and Scientific Research, Iraq.
- Department Plant production  
Institution Al-Muthanna University  
Duration 2006- 2011.
6. Position: Plant protection laboratory manager at the plant protection department, Agricultural college. Al- Muthanna University. The Ministry of Higher Education and Scientific Research (MOHESR).
- Department Plant production  
Institution Al-Muthanna University  
Duration 2005- 2006.

## Research Interest:

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1. Crop agronomy (pest and disease speciality).
2. Remote Sensing.
3. Modelling and data analysis.
4. Climate Science.
5. Mushroom production.

## Research Grant:

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1. Structure of financial support:

### Commencement Grant

Funding: Research and Development Department, Iraq.  
Project: Black cumin (*Nigella sativa*) cultivation in southern Iraq  
Duration: 2007-2009 (Iraq, Muthanna)  
Host: The Ministry of Higher Education and Scientific Research (MOHESR)  
Research time: Abdul Muhson Hussein M'onas, Bakir Hadi and **Lafta Atshan**.  
Status: Completed

### Ongoing Grant

Funding: Research and Development Department, Iraq.  
Project: Roselle tea (*Hibiscus sabdariffa*) cultivation in southern Iraq  
Duration: 2008-2010 (Iraq, Muathanna, Al- Najmey)  
Host: The Ministry of Higher Education and Scientific Research (MOHESR)  
Research time: Turki M. Saad, Khalid J. Shamkhi, **Lafta Atshan** and- Muhmmmed. A. Radi.  
Status: Completed

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## Programming and Scientific Software Skills:

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Math Tool: MATLAB (AL), Thermal Camera analysis data (FLIR).

Geodetic Software: QGIS(AL), ArcGIS (IL), Pix4Dmapper and Global Positioning System (GPS).

## Research Visit, Training and Exhibition:

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1. Scholarship (using sex pheromones in pest control and using (Polymerase Chain Reaction) PCR for the classification of Insects) at the Huazhong Agricultural University in China, in 2010.
2. Participation in 2016 School of Medical and Applied Sciences Research Higher Degree Symposium 2017, Rockhampton, Australia.
3. Workshop on SPSS – Statistical Package for Social Sciences Workshop Brisbane CQU Campus, Workshop Facilitator: Dr. Alan Keen, June 2018, Australia.
4. Participation and presentation in Turkish conference (International Horticultural Congress: IHC2018) in 2018. 30<sup>th</sup> International Horticultural Congress 12-16 August 2018. Istanbul. Turkey
5. Chemical and Biological Safety and Security Workshop in 8-10 February 2019 Sydney, Australia.

## Publications:

1. **Atshan, L. A.**, Brown, P., Xu, C. and White, S., (2018). Early detection of disease infection in chilli crops using sensors. In *XXX International Horticultural Congress IHC2018: VII Conference on Landscape and Urban Horticulture, IV Conference on 1279* (pp. 263-270). DOI: 10.17660/ActaHortic.2020.1279.38.
2. **Atshan, Lafta Awad** (2014). Effect of Stems mangle of *Sonchus Oleraceus* L. on the Ladybug *Coccinella septempunctata* L. under lab condition. Journal of Al-Muthanna for Agricultural Sciences ,ISSN: 40862226 Year: 2014 Volume: 2 Issue.
3. M'onas, A.M.H., Hadi, B.J. and **Atshan, L.A.**, (2013). The effect of different levels of nitrogen and phosphate fertilization on oil rate in *Nigella sativa* seeds. Al-Qadisiya Journal for Agricultural Sciences, 3(2). pp.12-27.
4. Turki M. Saad, Khalid J .Shamkhi, **Lefta Atshan** and- Muhmmmed.A.Radi (2013). Effect of Nitrogen and Phosphorus in some component of yield and quality properties for Hibicus Sabdarriff l. Authors: Journal of Al-Muthanna for Agricultural Sciences ISSN: 40862226 Year: 2013 Volume: 1 Issue: 8.
5. **Atshan Lafta Awad**. The Effect of Stems mangle *Sonchus Oleraceus* L. on the Ladybug *Coccinella septempuncta* L.under Lab condition. Jornal of Al-Muthanna for Agricultural Sciences, 2014, Volume 2, Issue 2, Pages 1-11.

## Award and Nomination:

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1. I received four congratulatory certificates from the Dean of Al-Muthanna University, and six congratulatory certificates from the head of Agricultural College, Al-Muthanna University.
2. Employment in Iraq: Head of plant protection department, Agricultural college. Al- Muthanna University. The Ministry of Higher Education and Scientific Research (MOHESR).
3. I received Certificate of participation from the Central Queensland University.
4. I received Certificate of participation from the Sandia National Laboratories /USA
5. I received Certificate of participation from the 30<sup>th</sup> International Horticultural Congress. Turkey

## Referees:

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| <p><b>Professor Philip Brown</b><br/>Senior Research Scientist<br/>School of Health, Medical and Applied<br/>Sciences.<br/>Central Queensland University<br/>Australia.<br/>E-mail: <a href="mailto:p.brown@cqu.edu.au">p.brown@cqu.edu.au</a></p> | <p><b>A/Professor Simon White</b><br/>Senior Research Scientist<br/>School of Health, Medical and Applied<br/>Sciences.<br/>Central Queensland University<br/>Australia.<br/>E-mail: <a href="mailto:s.c.white@cqu.edu.au">s.c.white@cqu.edu.au</a></p> |
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| <p><b>Dr. Nahidul Hoque Samrat</b><br/>Research Officer<br/>School of Health, Medical and Applied Sciences.<br/>Central Queensland University, Australia.<br/>E-mail: <a href="mailto:n.samrat@cqu.edu.au">n.samrat@cqu.edu.au</a></p> |
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