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## ACADEMIC CREDENTIALS

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**Doctorate of philosophy, Faculty of Health, Engineering and Sciences, Agricultural Engineering Department** June 2014  
University of Southern Queensland, Toowoomba

- Optimising nutrient extraction from chicken manure and compost  
“The aim was to identify strategies of optimising the extraction of the soluble nutrients from chicken manure or compost”  
The study was by research only, No COURSES was taken.

**Master of Soil Sciences, Soil fertility and plant nutrition** Feb 2007  
Agriculture collage University of Tripoli, Tripoli – Libya

- Evaluation of Nitrogen Use Efficiency under Sandy Soil Condition  
“The aim was to compare between two types of common nitrogen fertilizer used in Libya which were urea 46%N and Ammonium Sulfate 21% N”.

*All the most courses were passed at Average Grade Distinction GPA 3.*

**Bachelor in Soil and water Sciences, “Soil Sciences”** July 2000  
Agriculture collage University of Tripoli, Tripoli – Libya

- Study the Effect of Dilution on pH, Electrical Conductivity and Concentration of Soluble Ions  
“The aim was to find factor to convert from diluted extractions (1:1, 1:2.5 and 1:10) to saturated extraction”

*The Degree covered 146 unit with GPA “good” 71.86%.*

## RESREACH INTERSETS

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- Soil fertility and plant nutrition “nutrient management and recycle”, nitrogen use efficiency and fixing phosphorus in calcareous soils.
- Fertigation “applying essential nutrients such as N, P and K through irrigation systems (drip irrigation systems)”.
- Composting and compost sciences “ waste management and recycle”
- Greenhouse gas releases from animal manure and compost pile.

## PROFESSIONAL EXPERIENCE

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- Director of Training Office, University of Tripoli April 2018 – Feb 2019
- Chairman of Summer Internship program Jan 2016 – 2017  
In Faculty of Agriculture, University of Tripoli
- Member of Conduct and Control of examinations Committee Oct 2014 – 2017

Faculty of Agriculture, University of Tripoli  
**LABORATORY EXPERIENCE**

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**Laboratory Technical Services**

Jan 2014 – Oct 2014

At, National Centre for Engineering in agriculture (NCEA), USQ, as Soil Technical (Causal work). The duties that I have been doing are:

1. Determine moisture content of soil.
2. Chemical physical analyses for soil and plant samples.
3. Insert data and doing statistical analyses.
4. Using Atomic Adsorption Spectrometer (AAS -700), Ion Chromatograph (Dixon), Gas Chromatograph (GC 2014).

**Laboratory Technical Services**

Sep 2011 – Jan 2012

At NCEA, USQ as Soil Technical (Causal work). During this time, I did Practical size Analysis of Soil (PSAS).

**Teaching assistant**

Sep 2002 – Feb 2007

Soil and Water Department

Tripoli University, Tripoli – Libya

My first role academic sector was soil technical in soil and water department at Tripoli University (Tripoli – Libya). During this time, I was part time postgraduate master student. My main responsibilities are:

- Help professors in soil fertility and plant nutrition Laboratory.
- Help undergraduate students and postgraduate students to do some physical and chemical soil analyses.

**TEACHING EXPERIENCE**

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**Assistant Professor**

March 2018 – present

- Soil fertility and plant nutrition, Soil and Water Department, Faculty of Agriculture University of Tripoli, Tripoli – Libya

My main responsibilities in this position are:

- Teach Soil, water and plant analysis.
- Teach Advance plant nutrition “Gard student”.
- Supervision on postgrad and undergrad student in their projects.
- Supervision of Central Laboratory for analysis “soil, water, plant, food, animal feed...”.

**Lecturer**

Oct 2014 – March 2018

- Soil fertility and plant nutrition, Soil and Water Department, Faculty of Agriculture University of Tripoli, Tripoli – Libya

My main responsibilities in this position are:

1. Teach Soil fertility and fertilizers.
2. Member of examination committee in the faculty.
3. Supervision on postgrad and undergrad student in their projects.

#### 4. Supervision of Soil fertility and Plant nutrition Laboratory.

##### Assistant Lecturer

Feb 2007 – Sep 2010

- Soil fertility and plant nutrition, Soil and Water Department, Faculty of Agriculture University of Tripoli, Tripoli – Libya

My main responsibilities in teaching this course are:

- Give students good background about the roles of nutrients in plants.
- Explain the reaction of important nutrients such as nitrogen and phosphorus in soils.
- Discuss some issues that are related to evaluate soil fertility such soil chemical analyses.
- Background about soil physical, chemical and biological properties.

##### Computer skills

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Good command of using:

- Windows,
- Internet,
- Microsoft office applications,
- statistical analysis software “SPSS, Mintable”

##### CONFERENCE PRESENTATIONS

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- Ksheem, A.M and Antille, D. L (2014) Comparing the efficiency of two nitrogen fertilizer sources applied to maize crops (*Zea mays* L.) in a sandy soil in Libya, ASABE, Canada, July 13-16, 2014 in Montreal, QC Canada.
- Ksheem, A.M and Khalid Albedi (2016) Economics of the use of chemical fertilizers and their role in achieving food security in Libya. 1<sup>st</sup> Scientific Conference on Food Security and Food Safety Oct 15- 17 2016, Misrate, Libya. (In Arabic).
- Ksheem, A. M and Benezaghta, M.A (2019) Effect of applying mineral fertilizers on some soil chemical properties. The First Scientific Conference of Agricultural Sciences – Plant Production. Oct 5 – 6 2019, Misrate University, Misrate, Libya.

##### PUBLICATIONS

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1. Ksheem, A. M., Bennett, J. M., Raine, S.&Antille, D. L. 2015. Towards a method for optimised extraction of soluble nutrients from fresh and composted chicken manures. *Waste Management Journal*, Vol 45, 76 -90.
2. Ibrahim A. Eshkab, Abdalhakim M. Ksheem, Mahmood B. Shanta, and Abdalla G. Betelmal (2017) Effect of calcium carbonate on germination and growth of *Lathyrus sataivus*L. *The Libyan Journal of Agriculture*. Volume (22): No. (2): 2017: 50 – 60. (In Arabic) <http://www.ljagric.com/li/index.php/ljagric/article/view/93/92>
3. Barka, H. A, Benezaghta, M.A, & Ksheem, A.M (2018) Effect of different organic matters on chemical properties of calcareous soil. *Sirte University scientific Journal (Applied sciences)*, Vol. 8(2), 101 – 110.

##### Submitted:

- Ksheem, A. M., Bennett, J. M., Raine, S.&Antille, D. L xxxx. Characterisation of

leachate derived from fresh and composted chicken manures as a safe source of readily available nutrients for plant crops. *Bio-resource Tech.* xx, xxx-xxx.

- Ksheem, A.M. & Antille, D. L (xxxx). Effect of applying organic matter on availability of phosphorus in calcareous soils. *Communication in soil and plant analyses* xx, xxx-xxx.

### **Under process**

Ksheem, A.M, Kara, S, (XXXX) Study effect of interaction between potassium and nitrogen on potato yield and quality.

### **MEMBER OF SOECITIES**

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- Member of Soil Sciences Australia Feb 2015 – Present
- Member of American Society of Agricultural & Biological Engineers (ASABE) Nov 2014 – Dec 2015
- Member of International Fertilizers Society Jan 2014 – Present
- Executive Director of Libyan Association for the experts of Agricultural Sciences Jun 2016 – Present
- Member of Potatoes Research Association Feb 2015 – Present