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Name: Mahmoud Kamal Ahmed Khedher-Agha

Specialization: Agricultural Mechanization

Position: Faculty and Coordinator of the Department of Agricultural Machines and Equipment

Scientific Degree: Ph.D.

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❖ **Scientific Certification:**

<i>Ph.D. Agricultural & Biological Engineering</i>	2014
University of Florida, Gainesville, FL	
M.Sc. Agricultural Mechanization	2001
University of Baghdad, Baghdad, Iraq	
B.Sc. Agricultural Machinery	1998
University of Baghdad, Baghdad, Iraq	

❖ **PRACTICAL EXPERANCE**

Faculty and Coordinator Department of Agricultural Machines and Equipment, University of Baghdad , Baghdad, Iraq,	2020 – Present
Teaching, Mentor, Research, Supervision, and Management	
Tenured Instructor: Agricultural Mechanization Department University of Baghdad, Baghdad, Iraq,	2015 – Present
Teaching, Mentor, Research, Supervision, and Management	
Assistant Instructor , University of Baghdad, Agricultural Mechanization Department Baghdad, Iraq,	2002 – 2009
Teaching, Mentor, Management (exam committee)	

❖ **Projects**

Sorption Isotherm

2011-2012

- Mango and Triticale, Equilibrium Moisture Content Curve, Mathematical model (prediction equation)

Seed Infestation

2012-2014

- Detection insect infestation in triticale seed, Spectral analysis, Protection seed storage system, Developing methods, Economic evaluation, Seed germination, Seed drying Insect infestation control

Fruit cold storage control

2015- 2018

- Temperature and humidity control

Seed cleaning and grading

2020- Present

- machine performance

❖ **PUBLICATIONS**

1. Ahmed M.K., A.A. Al-Sabagh, M.H. Abdul-Abass, (2006). Study the effects of some mechanical factors on the performance of the hammer mill. The Iraqi J. Agric. Sci., v. 37 n (6):91-96
2. Ahmed, M.K. (2007): Effects of hammer speed and grain genus on hammer mill performance. The Iraqi J. Agri. Sci., v. 38 n (6):104-109
3. Khedher Agha M. K., Won Suk L., A. B. Ray, A. T. Arthur, and R. B. Ann. (2014) Sorption Isotherms for Triticale Seed. Transactions of the ASABE, Vol. 57(3): 901- 904, (doi: 10.13031/trans.57.10512)
4. Khedher Agha M. K. (2014), Detection and Protection of Triticale Seed from Infestation in A Storage System. PhD. Dissertation. University of Florida, USA.
5. Khedher Agha M. K., W. S. Lee, C. Wang, R. W. Mankin, A. R. Blount, R. A. Bucklin, N. Bliznyuk. (2017) Detection and prediction of *Sitophilus oryzae* infestations in triticale via visible and near-infrared spectral signatures. Elsevier, Journal of Stored Products Research 72, 1-10

6. Khedher Agha M. K, Bucklin R. A., W. S. Lee, R. W. Mankin, A. R. Blount. (2017) Effect of Drying Conditions on Triticale Seed Germination and Rice Weevil Infestation. Transactions of the ASABE 60 (2), 571-575
7. Al-Juburi Bareq Salman A., Mahmoud Kamal Ahmed. (2018) Effect of Storage Temperature, Packing Type and Plant Extracts on Storage Local Orange Citrus SINESIS. L Fruit. Iraqi Journal for Agricultural Research. 23 (1), 80-91

❖ **Conferences**

1. Khedher Agha, M. K., W. S. Lee, C. Wang, R. W. Mankin, N. Bliznyuk, and R. A. Bucklin. 2013. Determination degrees of insect infestation in triticale seed using NIR spectroscopy. ASABE Paper No. 131592957. St. Joseph, Mich.: ASABE.
2. Khedher Agha, M. K., W. S. Lee, R. A. Bucklin, A. A. Teixeira, and A. Blount. 2013. Equilibrium moisture content equation for triticale seed. ASABE Paper No. 131620333. St. Joseph, Mich.: ASABE.
3. Khedher Agha Mahmoud K. Won Suk Lee. Ray A. Bucklin. Khedher agha, Khalid K. R. W. Mankin. (2015) The Effect of Drying on Triticale Seed Germination and Insect Mortality. American Society of Agricultural and Biological Engineers Annual International Meeting
4. Al-Juburi Bareq Salman A., Mahmoud Kamal Ahmed. (2017) Study the effect of some factors the temperature and the type of packaging on the cold storage period of fruits. Thi-Qar University Journal for Agricultural Researches First Scientific Conference of Agricultural Research. P. 91-11

❖ **PROFESSIONAL EXPERIENCE**

Graduate Assistant University of Florida, Gainesville, Fall 2014

Projects, Experiments, writing papers and Analyzing data

Graduate Student University of Florida, Gainesville, 2010- 2014

Projects, classes, experiments, writing papers and Analyzing data

❖ ***Affiliations***

Member, the Iraqi Agricultural Engineers Union, Iraq 1998-Present

Meeting, Presentations,

Member, American Society of Agricultural & Biological Engineers (ASABE) 2012-Present

Professional meetings, Committee, Conference presentation

Member, Alpha Epsilon at the University of Florida an Honor Society of Agricultural,
Biological and Food Engineering 2012-Present

Meeting, Discussions, Network

Contribution, the 1st Annual Agricultural & Biological Engineers (ABE) Research Poster
Symposium October 2013

Present poster, Discussion, Network

Participant the Educational Developing methods of Teaching and University
Staff Training, University of Baghdad Baghdad, Iraq January 2003 -
Planning, Testing, Presenting February 2003

