

Correculum Vita



Name: Salloom Barghooth Salim

Date of Birth: 01-07-1955

Religion: Moslem

Martial statues: Married

No. of children: Four

Specialization: Soil Physics and Hydrology

Position: Professor

Scientific Degree: Ph.D.

**Work Address: Department of Soil Sciences and Water Resources/
College of Agricultural Engineering - University of Baghdad**

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First, Scientific Certification:

| Degree | University | College | Date |
|-----------------------------------|--------------------------------|---|-------------|
| B.Sc. | Baghdad University | Agriculture | ۱۹۷۶-۶-۳۰ |
| M.Sc. | Kansas State University/USA | Agriculture and Applied Sciences | ۱۹۸۶-۲-۱۸ |
| Ph.D. | Baghdad University | Agriculture | ۲۰۰۳-۶-۱۰ |
| Certificate of Coption | Hemline University | ELS Language Center, Saint Paul, Minnesota, USA | 15-6-1982 |

Second: Under Graduate Courses which I teach

| No. | Department | Subject | Year |
|-----|--------------------------------------|-------------------------------------|---------------------|
| ١ | All Departments | Computer Programming GW-Basic | ١٩٩٩-١٩٨٨ |
| ٢ | All Departments | Computer Applications | ٢٠٠٣-١٩٩٩ |
| ٣ | Agriculture economics | Visual Basic | 20003-2006 |
| 4 | Soil Sciences and Water Resources | Technology of Irrigation systems | 2014- present |
| 5 | Soil Sciences and Water Resources | Soil Physics | ٢٠٠٧/٢٠٠٦- 2014- |
| 6 | Soil Sciences and Water Resources | Drainage | 2017- present |
| 7 | Soil Sciences and Water Resources | Irrigation | ٢٠٠٦ |
| 8 | Agricultural Machinery | Soil Physics and Mechanics | ٢٠٠٧ |
| 9 | Agronomy Department | Principles of Soil Sciences | 2015 |
| 10 | All departments | Irrigation and Drainage | 2001-2013 |

Third: Graduate Courses which I teach

| No. | Department | Subject | Year |
|-----|-----------------------------------|---|------------------------|
| 1 | All Departments | Advance in Computer Applications | 1998-2005 |
| 2 | Soil Sciences and Water Resources | Advance in Physical Properties of Soil | 2009-2017 2014-2017 |
| 3 | Soil Sciences and Water Resources | Advanced Soil Physics | 2017-present |
| 4 | All Departments | Advanced Model Building | 2010-present |
| 5 | Soil Sciences and Water Sciences | Advanced Irrigation PhD level | 2014-present |
| 6 | Soil Sciences and Water Resources | English Language/ PhD level Fall semester | 2014-present |
| 7 | Soil Sciences and Water Resources | English Language/ PhD level Spring Semester | 2014-present |
| 8 | Soil Sciences and Water Resources | Department Seminar | 2018 spring semester |

Forth: Graduate Students:
Supervising 3 graduate students currently

Fifth: Conferences which I participated:

| No. | Conferences Title | Year | Place | Type of Participation |
|-----|---|------|---------------|--------------------------------|
| 1 | International workshop to Improve Agricultural Water Management in Iraq | 2007 | Amman, Jordan | Soil physicist and Hydrologist |

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| 2 | Extension Needs Assessment Forum.: Irrigation, Water Resources, and management | ٢٠٠٨ | Amman, Jordan | Soil physicist and Hydrologist |
| ٣ | Borlaug International Agricultural Science and Technology Fellows Program | 2008 | Lincoln, Neb. and Riverside, Ca. USA | Trainee |
| 4 | Iraqi Soil Salinity and Water Management | ٢٠٠٩ | Baghdad, Iraq | Soil Physicist and Hydrologist (poster) |
| 5 | Water Scarcity, Causes and Remedies | ٢٠٠٩ | College Of Agriculture, Baghdad University, Baghdad | Participant: The Use of Modern Irrigation Technologies to Reduce Water Scarcity Impact |
| 6 | Workshop for Iraqi Borlaug Fellows and Mentors, International Center for Agricultural Research in Dry | ٢٠١٠ | Aleppo, Syria | Soil Physicist and Hydrologist |
| 7 | The First International Conference on Agriculture and Natural Resources | 2011 | Babylon University | Soil Physicist and Hydrologist |
| 8 | Iraqi Soil Salinity and Water management Conference | 2011 | Baghdad University | Participant |

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| 9 | First International Biology Congress | 2012 | Bishkek, Kyrgyzstan | Oral presentation of a paper |
| 10 | Use of Sensors for irrigation Water management | 2019 | Baghdad University | Oral presentation |

Sixth: patent

Seventh: Scientific certificates

| No. | Name of Awards and Certificates | Donor | Year |
|-----|----------------------------------|---|------|
| ١ | Certificate of Completion | USDA/ARS/, U.S. Salinity Laboratory, Norman E. Borlaug Fellowship Program Riverside, CA. USA | ٢٠٠٨ |
| ٢ | Certificate of Completion | USDA/ARS/FAS , Norman E. Borlaug Fellowship Program Lincoln, Neb. USA | 2008 |

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| ٣ | Certificate of Completion of Professional Scientific Collaboration | USDA/ ARS/ FAS, Norman E. Borlaug International Agriculture Science and Technology fellowship Program ICARDA, Aleppo, Syria | 2010 |
| ٤ | Certificate of Completion of Iraqi Fellow and Mentor Follow-up Workshop | USDA/ ARS/ FAS, Norman E. Borlaug International Agriculture Science and Technology ICARDA, Aleppo, Syria | 2010 |
| ٥ | Certificate of completion | Decagon Devices | Oct. 17, 2012 |
| 6 | Appreciation | Dean | 2010 |
| 7 | Appreciation | Minister of Education | 2013 |
| 8 | Appreciation | International Rice Research Institute (Philippine) | 2014 |

And others

Eight: Scientific Activities

| Within the College | Outside the College |
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| Participation in Water Scarcity Conferences | Member of curriculum committee For technical high schools/ Ministry of Education |
| Implementing of high tech sensing devices, and data acquisition technique, in water management research projects | Participation in conferences |
| Precise determinations of ground water participation in ETa of wheat | Examinee member (head) of final defense committee for PhD dissertations and MSc thesis |
| Introducing Aerobic Rice Cultivating in Iraq under Different Irrigation Regimes | Introducing Aerobic Rice Cultivating in Iraq under Different Irrigation Regimes (Ministry of Science and Technology, Agricultural Research Directorate) |
| Studying of water – salinity balance under field conditions in the presence of a shallow water table | Organizing a memorandum of Understanding Between the University of Baghdad and the International Rice Search Institute(IRRI, Philippines). Officialized by the Ministry of Higher Education and Scientific Research and Signed by the President of University of Baghdad |
| Principles of zero flux plane under unsaturated flow condition | Supervisor, graduate search projects |

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| Simulation of water movement under subsurface(surface) drip irrigation systems | Supervisor, graduate search projects |
| Assessment of proposed national projects | Ministry of High Education and Scientific Research |
| Assessment of scientific articles, thesis and dissertations | |

Organizing A Memorandum of Understanding(MOU) between University of Baghdad and International Rice Research Institute (IRRI, Philippine Republic) during my visit via research scholarship program in July, 2014.

■ Ninth: Published Scientific Research Articles

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| 1 | Effect of Water Quality irrigation on Pore Size distribution during drainage in Clay Loam Texture Soil | Plant Achieve | 20(1): April, 2020 |
| 2 | Predicting of the Main Wetting Curve(MWC)Based on Its Drying Curve(MDC) by Using the Two points Methods | Plant Archives | 19(1): 2019 |
| 3 | Effect of Gypsum Content on some Soil Hydraulic Properties | Iraqi J. Agriculture | 2019 under publication |
| 4 | Simulation of Water Distribution and Redistribution in Vertical and Horizontal Directions under Subsurface D | Iraqi J. Soil Sciences | 18(1):2-14 2018 |

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| 5 | Measured and Predicted Wetting Patterns under Subsurface Drip Irrigation Using Hydrus 2D Irrigation | International Journal of Science and Engineering Investigations | 5(55): 169-176, 2016 |
| 6 | Effect of Irrigation Levels on Growth and Yield of Rice under Aerobic Cultivation Regime. | The Iraqi Journal of Agricultural Sciences | 47(4):1064-1069, 2016 |
| 7 | Effect of Irrigation Method on Water Use Efficiency for Different Rice varieties (<i>Oiyza sativa L.</i>) | Diala Agricultural Sciences Journal | 8(1):207-217 2016 |
| 8 | Response of Different Varieties of Rice (<i>Oiyza sativa L.</i>) for Aerobic Cultivation. | Dial Agricultural Sciences Journal | 8(2):151-161 2016 |
| 9 | Determination of the Elements of Soil Water Balance for Wheat (<i>Triticum aestivum L.</i>) Under Shallow Water Table | International Journal of Applied Agricultural Sciences | 1(3): 84-90, 2015 |
| 10 | Water balance in Cultivated and Uncultivated Soil. | J. Sci. and Technology (in press) | 2013 |
| 11 | Determination of Evapotranspiration for Wheat (<i>Triticum aestivum L.</i>) under Different Irrigation Management | Al-forat J. Agric. Sci. | 4(3):85-93 2013 |

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| 12 | Determination of Ground Water Contribution to Actual Evapotranspiration for Bread Wheat. | Iraqi. J. Agric. Sci. 42:126-137. | 2011 |
| 13 | Effect of magnetism and salinity level of irrigatin water on Tomato(Lycopersicon esculentum Mill) growth and yield. | Iraqi J. Soil Sci. (in press) | 10(1):1-9 2011 |
| 14 | Extended Analysis of Unsaturated Hydraulic Functions Using the RETC Code. | J. Babylon University, 19(1):270-283. | 2011 |
| 15 | Effect of Magnetism and Salinity of ground water on Physical Properties of Different -Textured Soils | Iraq. J. Soil . Sci. 10(1):1-9. | 2010 |
| 16 | Predicting deep drainage from soil water retention relationship and texture. A poster submitted to the Iraqi Salinity and Water Management Conference, | Poster Iraqi Salinity and Water Management Conference, July, 15-17, 2009, Baghdad, Iraq. | 2009 |
| 17 | Effect of Magnetism on Some Physical Properties of Different-Salinity Irrigation Water | Iraqi J. Soil. Sci. 9(1):17-29 | 2009 |
| 18 | Assessment of Gravity-Drainage Flow Under Field Conditions for a Silt Clay Loam Soil: I. Predicting of Unsaturated Hydraulic Conductivity and Water Content profiles. | J. Engineering 13(1): 459-478 | 2008 |
| 19 | Assessment of Gravity-Drainage Flow Under Field Conditions for | Iraqi J. Agric. Sci. 39(4): 53- | 2008 |

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| | a Silt Clay Loam Soil: I. Predicting Time Rate of Change in Depth of Stored Water in Soil Profile | 62. | |
| 20 | Building and Assessment of Mathematical models for Predicting sorptivity of Iraqi soils from some physical and Chemical Properties. | Iraqi J. Agric. Sci 38(3):83- 93 | 2007 |
| 21 | Unsaturated hydraulic characteristics under surge and continuous irrigation: I. Water content | Iraqi J. Agric. Sci. 36(2): 1-8 | 2005 |
| 22 | The unsaturated hydraulic conductivity of silt clay loam soil under surge and continuous irrigation. | Iraqi J. Soil Sci. 5(1):11- 18. | 2005 |
| 23 | Effect of corn cobs and fuel oil mulching on evaporation from bare soils | Iraqi J. Agric. Sci. 35(6):179- 182. | 2004 |
| 24 | Unsaturated hydraulic characteristics of silt clay loam soil under surge and continuous irrigation: II. Hydraulic head gradient and zero flux plane | Iraqi J. Agric. Sci. 35(6):9- 20 | 2004 |
| 25 | Evaporation from Silt clay loam soil surface under surge and continuous irrigation | Iraqi J. Soil Sci. 4(1):39- 48 | 2004 |
| 26 | Some uncommon models for predicting water infiltration into different-textured porous media. | Iraqi. J. Soil Sci. 4(1):16- 22 | 2004 |
| 27 | Water Flux in silt clay loam soil treated with fuel oil under surge and continuous irrigation | J. Al-Qadisiah Pure Sci. 11(1):50-64 | 2004 |
| 28 | Field calibration of neutron probe for measuring soil moisture content at different | Iraqi J. Soil Sci. 3(1):45- 57 | 2003 |

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| 29 | depths from the soil surface . Inspectional analysis of closed form analytical model for prediction unsaturated hydraulic conductivity of soils | Iraqi J. Agric. Sci. 32(1):217-226 | 2001 |
| 30 | A simplified power function approach for estimating the unsaturated hydraulic conductivity of non-swelling soils | J. water Resour. 20(1): 31-46 | 2001 |
| 31 | Detailed description and simulation of a method for calculation unsaturated hydraulic conductivity of a layered soil from field data | Iraqi J. Agric. Sci. 29(1):101-118. | 1998 |
| 32 | Spatial variability of some soil properties: I. Physical properties. | Iraqi J. Agric. Sci. 28(1):148-161 | 1997 |
| 33 | Comparison of two methods for summarizing unsaturated hydraulic conductivities of a layered soil | Water Resour. Res. 24(8):1271-1276. | 1988 |

عاشرا: عضوية الهيئات العلمية.

Tenth: Membership:

1. Iraqi Journal of Soil Science
2. International Journal of Applied Agricultural Science
3. Member of Graduate Faculty
4. Member of the AFSTRI (IRRI, International Rice Research Institute)
5. Head and member of comprehensive exam committees/PhD level
6. Head, Graduation research projects final defense (under graduate) / Soil physics
7. Member of competitive exam /PhD level

And others

■ Eleventh Scientific literature:

أحد عشر: الكتب المؤلفة:

| No. | Title | year |
|-----|---------------------|------|
| 1 | Soil and Irrigation | ٢٠١٠ |

Twelfth: Appreciations, many

■ Thirteenth: languages:

- ✓ Arabic
- ✓ English

