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Personal details

Full name: **Mohammed Abdulridha Naser**

Marital status: **Married**

Contact details: Email: mohammed.naser@mu.edu.iq or mnaser1974@gmail.com

Cell Phone: +964 7736090917

Address: Al-Samawa, Al-Muthanna, Iraq

Education

2016-2021	Doctor of Philosophy (PhD) Degree from University of Nebraska-Lincoln, College of Agricultural Sciences and Natural Resources, Agronomy and Horticulture Dept. Lincoln, Nebraska, USA. Major: Agronomy, GPA: (3.4 out of 4.0) Minor: Soil and water Sciences (Soil fertility/Precision agriculture).
2014-2015	PhD student in Oregon State University, College of Agricultural Sciences Crop and Soil Science Dept. Corvallis, Oregon, USA. Major: Soil Fertility and Environmental Impact Proposed area of concentration: Precision Agriculture
2010-2012	Master's Degree from Colorado State University, College of Agricultural Sciences, Fort Collins, Colorado, USA. Masters, Soil and Crop Sciences. Major: Precision Agriculture. GPA: 3.72 out of 4.0)
1996-2000	University of Baghdad, College of Agriculture, Baghdad, Iraq B.Sc. Soil Science GPA: 82.58%
1994-1996	Al-Mussiab Agricultural Institute, Babylon, Iraq Diploma of Soil Science GPA: 91.88%

Experience

- I am working as assistant of head department of Combating Desertification, College of Agriculture, Al-Muthanna University from Sep. 2024 – present.
 - Supervising on three postgraduate students (Master's level).
 - I am working as assistant of head department of Soil Science and Water Resource in College of Agriculture, Al-Muthanna University from Nov. 2021 – September 2024.
 - I am teaching two courses for graduate students (Fertilizer technologies, English Language).
 - I am teaching four courses for undergraduate students (desert environmental, English Language, Soil Fertility, and Soil Organic Matter).
 - I am working with a multiple department committees including exam committee, .
 - I am working to explore the use of crop canopy sensing technologies to detect the onset of nitrogen stress in the crop canopy in time to supplement N through the irrigation system (fertigation) without significant impact on crop yield or profit.
 - I am working towards developing new approaches and recommendations for managing nitrogen fertilization during the growing season for irrigated maize.
 - I have been working as an assistant lecturer in Department of Soil Science and Water Resource in Al-Muthanna University from Feb 2013 - present.
 - I worked with a different committee within College of Agriculture. Also, I have worked with unit responsible from Feb. 2013 – Sep-2014.
 - I have an excellent experience about active remote sensing such as Greenseeker® and Fluorescence measurements through my work in my project further than two years with these devices at Colorado State University, 2010-2012.
 - I worked as an assistant researcher in Department of Soil Science and Water Resource in Al-Muthanna University from Oct. 2005 – March 2009.
 - I have an excellent experience in producing different kinds of vegetables (indoor and outdoor), 2000-2005.
 - I have a good experience in plant disease identification including soil diseases.
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Professional Members

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| - Member: | American Society of Agronomy (ASA) |
| - Member: | Soil Science Society of America (SSSA) |
| - Member: | Crop Science Society of America (CSSA) |
| - Member: | International Society of Precision Agriculture (ISPA) |
| - Member: | Iraqi Agricultural Engineering Syndicate (IAES) |
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Activities and Workshops

- I participated in the **First National Conference for Alumni of Iraqi Scholarship Program** in April, 15, Baghdad, Iraq.

- I participated in many **workshops** in department of Combating Desertification and in College of Agriculture, Al-Muthanna University from 2022-2025.
- **Oral presentation** presented at 3th International Conference on Agricultural Sciences and Sustainable Environment (ICAES2022)”. College of Agriculture, Al-Muthanna University, Iraq January 15-16, 2023.
- **Oral presentation** presented at 5th International Conference for Agricultural and Environment Sciences (ICAES2022)”, College of Agriculture, Al-Qasim Green University, Iraq. November 23-24 , 2022
- **Oral presentations** presented at Soil Science and Water Resource department, such as training courses, workshops, and seminar from Oct. 2021 to present.
- **Oral presentation** presented at American Society of Agronomy (ASA), Crop Science Society of America (CSSA), and Soil Science Society of America (SSSA) International Annual Meetings in San Antonio, Texas. November 10-13, 2019.
- **Poster** presented at American Society of Agronomy (ASA), Crop Science Society of America (CSSA), and Soil Science Society of America (SSSA) International Annual Meetings in San Antonio, Texas. November 10-13, 2019.
- **Poster** presented in 2019 NUE Workshop: Developing Tools Adaptive to Wicked Nitrogen, Columbia, Missouri. August 5-7, 2019
- **Poster** presented at American Society of Agronomy (ASA), Crop Science Society of America (CSSA), and Soil Science Society of America (SSSA) International Annual Meetings in Baltimore, Maryland. November 4-7, 2018.
- **Poster** presented: in Great Plains Soil Fertility Conference, Denver, Colorado. March 6-7, 2018.
- **Marketing for Scientists Workshop**, Agronomy and Horticulture Department. University of Nebraska-Lincoln. February 27, 2018
- **Oral presentation** presented at American Society of Agronomy (ASA), Crop Science Society of America (CSSA), and Soil Science Society of America (SSSA) International Annual Meetings in Tampa, Florida. October 22-25, 2017.
- Involvement in activities with the Agronomy Horticulture Graduate Student Association (AHGSA), 2016-2018.
- Participation in 46th North Central Extension-Industry Soil Fertility Conference. November 2-3, 2016. Des Moines, Iowa.
- Participation in Oregon State University Extension Service Small Farms Conference. February 28th, 2015. Corvallis, Oregon.
- **Oral presentation** presented at American Society of Agronomy (ASA), Crop Science Society of America (CSSA), and Soil Science Society of America (SSSA) International Annual Meetings in Ohio. October 21-24, 2012.
- **Oral presentation** presented: 11th International Conference on Precision Agriculture in Indianapolis, Indiana. July 16-19, 2012.
- **Poster** presented in the 11th International Conference on Precision Agriculture in Indianapolis, Indiana. July 16-19, 2012.
- **Poster** presented in Great Plains Soil Fertility Conference in Denver, Colorado, March 6-7, 2012.

- **Oral presentation** presented in American Society of Agronomy (ASA), Crop Science Society of America (CSSA), and Soil Science Society of America (SSSA) International Annual Meetings in San Antonio, Texas. October 16-19, 2011.
 - I participated in 10th International Society of Precision Agriculture in Denver. July, 2010.
 - I participated in a workshop in Colorado State University titled (Sino-US International Science and Education Collaboration: Precision Agriculture), speaker professor Raj Khosla, from Colorado State University and my advisor.
 - I participated in workshop in Colorado State University about new technology active remote sensing such as new handheld Greenseeker[®], speaker from Trimble Navigation Limited Company.
 - I participated in many agricultural conferences and workshops in Iraq about agriculture and soil science.
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Honors and Awards:

- I received 2 Acknowledge letters from President of Al-Muthanna University, 2025.
- I received Acknowledge letter from Dean of Collage of Agriculture, Al-Muthanna University, May-2025.
- I received Acknowledge letter from Minister of Higher Education& Scientific Research in Iraq, 2025.
- I received Acknowledge letter from Minister of Higher Education& Scientific Research in Iraq, Sep-2024.
- I received 2 Acknowledge letters from President of Al-Muthanna University, 2024.
- I received 3 Acknowledge letters from Dean of Collage of Agriculture, Al-Muthanna University, 2024.
- I received Acknowledge letter from President of Al-Muthanna University, 2023.
- I received Acknowledge letter from Dean of Collage of Agriculture, Al-Muthanna University, Jun-2023.
- I received Acknowledge letter from Minister of Higher Education& Scientific Research in Iraq, May-2023.
- I received Acknowledge letter from Dean of Collage of Agriculture, Al-Muthanna University, Jan.-2023.
- I received Acknowledge letter from Dean of Collage of Agriculture, Al-Muthanna University, Oct.-2022.
- I received Acknowledge letter from Dean of Collage of Agriculture, Al-Muthanna University, Sep.-2022.
- I received Acknowledge letter from Minister of Higher Education& Scientific Research in Iraq, 2022.
- I received Acknowledge letter from President of Al-Muthanna University, 2022.
- I received Acknowledge letter from Minister of Higher Education& Scientific Research in Iraq, Oct. 2013.
- I received 3 Acknowledge letter from President of Al-Muthanna University.

- Precision Agriculture Outstanding Graduate Student Award, 11th International Conference on Precision Agriculture, July 16-19, 2012, Indianapolis, Indiana.
 - Hunter Follett Graduate Student Award, April 2012, Soil and Crop Sciences Department, Colorado State University.
 - Honorable Mention 2012 Student Poster Contest awards , Great Plains Soil Fertility Conference, March 6-7-2012, Denver, Colorado.
 - Graduate student travel awards, Great Plains Soil Fertility Conference, March 6-7-2012, Denver, Colorado.
 - Ministry of Higher Education and Scientific Research first rank awards: among 86 students from Department of Soil Science. 2000, College of Agriculture, University of Baghdad, Iraq.
 - Ministry of Higher Education and Scientific Research first rank awards: among 32 students from Al-Mussiab Agricultural Institute. 1996, Babylon, Iraq.
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Conference Participation and Papers

- 1- Hh Al-Shujairy, Q.A.T.; Al-Hedny, S.M.; **Naser, M.A.**; Shawkat, S.M.; Ali, A.H.; Panday, D. Bootstrapping Enhanced Model for Improving Soil Nitrogen Prediction Accuracy in Arid Wheat Fields. Nitrogen 2025, 6,2, 23. <https://doi.org/10.3390/nitrogen6020023>.
- 2- **Mohammed A. Naser**. Wheat Nitrogen Fertilizer Management Using GreenSeeker Handheld Crop Canopy Sensor. International Journal of Agriculture and Earth Science. 2025, 11,3,12-22.
- 3- HR Nayyef, **MA Naser**, HS Al-Laghawi, AR Alhasany. Impact of Dripper Type and Irrigation Water Salinity on Soil Bulk Density, Growth, and Yield of Maize Crop. Plants, 2025, 14,5, 693.
- 4- BS Kareem, **MA Naser**, FH Issa. Effect of Splitting Potassium Fertilizer and Humic Acid on Eggplant Growth, Yield and Quality. IOP Conference Series: Earth and Environmental. 2025, 1449,1, 012119.
- 5- Raheem Alwan Halool Jassim, Mohammed A Naser, Mustafa A Manshoud, Hawraa Naeem Jalal. The Effect of Biochar Levels on the Efficiency of Nitrogen Absorption and some Growth Traits of Wheat (*Triticum aestivum*. L). University of Thi-Qar Journal of agricultural research. 2024, 13,2, 427-433.
- 6- Mohamed Karim Obaid, **Mohammed A Naser**, Aula Hussein Ali Alobeidi, Mustafa A Manshoud. A New Mathematical Method for Dividing the Area of Land with a Trapezoidal Shape Longitudinally. European Journal of Theoretical and Applied Sciences. 2024, 2,5. 330-334.
- 7- Hanoon N. Kadhém Al-Barakat, **Mohammed A. Naser** and Kahraman H. Habeeb. Humic and Fulvic Fertilizers and Zinc Spray Impact on the Availability of Zinc and Phosphorous in Soil and Maize Crop Yield. Biopestic. Int.19(1):75-82 (2023).

- 8- The effect of the level and methods of adding nano-fertilizer on the uptake of some elements and the growth and yield of wheat. Raheem Alwan Halool Jassim, Hanoon Nahi Barakat and **Mohammed A. Naser**. Oral presentation presented at 5th International Conference for Agricultural and Environment Sciences (ICAES2022)", College of Agriculture, Al-Qasim Green University, Iraq. November 23-24 , 2022.
- 9- **Naser, M.A.**; Khosla, R.; Longchamps, L.; Dahal, S. Characterizing Variation in Nitrogen Use Efficiency in Wheat Genotypes Using Proximal Canopy Sensing for Sustainable Wheat Production. *Agronomy* 2020, 10, 773.
- 10- **Naser, M.A.**; Khosla, R.; Longchamps, L.; Dahal, S. Using NDVI to Differentiate Wheat Genotypes Productivity Under Dryland and Irrigated Conditions. *Remote Sens.* 2020, 12, 824.
- 11- Does Integration of Soil and Plant Measurements Using Crop Sensor Information Improve Maize-N Model Predictions? **Mohammed A. Naser**, Richard B. Ferguson, Brian T. Krienke, Suat Irmak, Daran R. Rudnick, Tim Shaver, Charles Shapiro, and Keith Glewen. Oral presentation presented at American Society of Agronomy (ASA), Crop Science Society of America (CSSA), and Soil Science Society of America (SSSA) International Annual Meetings in San Antonio, Texas. November 10-13, 2019.
- 12- Integration of Soil and Plant Measurements Using Crop Sensor Information to Improve Maize-N Model Predictions. **Mohammed A. Naser**, Richard B. Ferguson, Brian T. Krienke, Suat Irmak, Daran R. Rudnick, Tim Shaver, Charles Shapiro, and Keith Glewen. Poster presented at American Society of Agronomy (ASA), Crop Science Society of America (CSSA), and Soil Science Society of America (SSSA) International Annual Meetings in San Antonio, Texas. November 10-13, 2019.
- 13- Nitrogen Management Using Reactive Sensor and Maize-N Model via Fertigation in Corn. . **Mohammed A. Naser**, Richard B. Ferguson, Brian T. Krienke, Suat Irmak, Daran R. Rudnick, Tim Shaver, Charles Shapiro, and Keith Glewen. Poster presentation at 2019 NUE Workshop: Developing Tools Adaptive to Wicked Nitrogen, Columbia, Missouri. August 5-7, 2019.
- 14- Profit and Nitrogen Use Efficiency Gain Using Sensor-Guided Fertigation. Brian Krienke, Richard Ferguson, Suat Irmak, Daran Rudnick, Charles Shapiro, Tim Shaver, Keith Glewen, Bijesh Maharjan, Charles Wortmann, and **Mohammed Naser**. 2019 Crop Production Clinic and Nebraska Crop Management Conference Proceedings. January 9, 2019.
- 15- Determining Timing and Rate of Nitrogen Requirements Using Reactive Sensor and Crop Model Approaches via Fertigation in Corn. **Mohammed A. Naser**, Richard B. Ferguson, Brian T. Krienke, Suat Irmak, Daran R. Rudnick, Tim Shaver, Charles Shapiro, and Keith Glewen. Poster presentation at American Society of Agronomy (ASA), Crop Science Society of America (CSSA), and Soil Science Society of America (SSSA) International Annual Meetings in Baltimore, Maryland. November 4-7-2018.
- 16- Can the Integration of a Crop Sensor and Crop Model Be Used to Determine Timing and Rate of Nitrogen Fertigation? **Mohammed A. Naser**, Richard B. Ferguson, Brian T. Krienke, Suat

Irmak, Daran R. Rudnick, Tim Shaver, Charles Shapiro, and Keith Glewen. Poster presentation at Great Plains Soil Fertility Conference, Denver, Colorado. March 6-7, 2018.

- 17- Feasibility of Sensor-Based Nitrogen Fertigation Management in Corn. Brian Krienke, Richard Ferguson, Suat Irmak, Daran Rudnick, Tim Shaver, Charles Shapiro, Keith Glewen, and **Mohammed Naser**. 2018 Crop Production Clinic Conference Proceedings. January 8, 2018.
- 18- Integration of Reactive Sensor and Maize-N Model Approaches for Nitrogen Rate in Corn. **Mohammed A. Naser**, Richard B. Ferguson, Brian T. Krienke, Suat Irmak, Daran R. Rudnick, Tim Shaver, Charles Shapiro, and Keith Glewen. Oral presentation at American Society of Agronomy (ASA), Crop Science Society of America (CSSA), and Soil Science Society of America (SSSA) International Annual Meetings, Tampa, Florida. October 22-25-2017.
- 19- Integration of Sensor Based Fertigation Management. Brian Krienke, Richard B. Ferguson, Suat Irmak, Daran R. Rudnick, Tim Shaver, Charles Shapiro, Keith Glewen, and **Mohammed A. Naser**. Poster presentation at American Society of Agronomy (ASA), Crop Science Society of America (CSSA), and Soil Science Society of America (SSSA) International Annual Meetings, Tampa, Florida. October 22-25-2017.
- 20- Fertigation: Actual Applications and Results? What Cautions Should a Farmer Have? Daran R. Rudnick, Brian Krienke, and **Mohammed Naser**. 5th International Irrigation Meeting in Manfredi, Cordoba, Argentina. October 26-27, 2016.
- 21- Active Sensing for Rapid Evaluation of Apparent Nitrogen Use Efficiency in Winter Wheat Genotypes. **Mohammed A. Naser**, Raj Khosla, Louis Longchamps, Marc Moragues, Scott Haley, Robin Reich, Gregory McMaster and Gerald Buchleiter. American Society of Agronomy (ASA), Crop Science Society of America (CSSA), and Soil Science Society of America (SSSA) International Annual Meetings, Cincinnati, Ohio. October 21-24-2012.
- 22- Can Active Sensor based NDVI Consistently Classify Wheat Genotypes? **M. A. Naser**, R. Khosla, L. Longchamps, M. Moragues, S. Haley, Robin Reich, Gregory McMaster, and Gerald Buchleiter. 11th International Conference on Precision Agriculture, Indianapolis, Indiana. July 16-19, 2012.
- 23- Variation in Nitrogen Use Efficiency for Multiple Wheat Genotypes cross Dryland and Irrigated Cropping Systems. **M. A. Naser**, R. Khosla, L. Longchamps, M. Moragues, S. Haley, Robin Reich, Gregory McMaster, and Gerald Buchleiter. 11th International Conference on Precision Agriculture, Indianapolis, Indiana. July 16-19, 2012.
- 24- Could Active Sensor based NDVI readings differentiate NUE traits in wheat genotypes? **M. Naser**, R. Khosla, L. Longchamps, M. Moragues, and S. Haley. Great Plains Soil Fertility Conference, Denver, Colorado. March 6-7-2012.
- 25- Active Sensor Based Evaluation of Multiple Wheat Genotypes Across Dryland and Irrigated Cropping Systems. **M. Naser**, R. Khosla, L. Longchamps, M. Moragues, and S. Haley. American

Society of Agronomy (ASA), Crop Science Society of America (CSSA), and Soil Science Society of America (SSSA) International Annual Meetings, San Antonio, Texas. October 16-19-2011.