

## **CURRICULUM VITAE (C.V)**

### **PERSONAL DATA**

Name: Elnayer Hamid Suliman  
Date of birth: 15/10/1972  
Nationality: Sudanese  
Profession: Associate Research professor  
Position: Head, Sorghum Insect Pests Research Program, Gedarif Rainfed Research Station.  
Place of Birth: Omrawaba, Northern Kordofan State, Sudan  
Sex: Male  
Religion: Islam  
Marital status: Single  
Work address: The Agricultural Research Corporation, Crop protection Research Center, Gedarif Rainfed Agricultural Research Station P.O. Box 126, wad Medani, Sudan  
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### **EDUCATION**

2012: PhD (Sorghum Pests Management and Adaptation to Climate Change), Faculty of Agricultural Sciences, University of Gezira, Wad Medani, Sudan.  
2000: M.Sc. (Management of sorghum pests), Faculty of Agricultural Sciences, University of Gezira, Wad Medani, Sudan.  
1996: B.Sc. Plant Protection, Sudan University of Sciences & Technology, Khartoum, Sudan  
1990: Sudanese certificate, khor Taggat Higher Secondary School, El Obied, Sudan.  
1992: Diploma (ESP) English, the International Institute, Omdurman, Sudan.

- 1997: Certificate (Computer Sciences), Electronic Sciences Centre, Wad Medani, Sudan
- 2001: Certificate (Internet), El Shareif Centre for Internet and Telecommunications, Gedarif, Sudan.
- 2011: ESP, Certificate (Communication), Sudan National Institute for English Languages, Gedarif, Sudan.

## **MAIN RESEARCH INTERESTS**

### **Crop production & protection:**

- 1- Breeding sorghum for Resistance to insect pests, Drought and Striga.
- 2- Studies on Mechanisms of resistance to sorghum insect pests,
- 3- Natural Products: Evaluation of different parts (leaves, flowers, fruits and pads) of some local trees and weeds for controlling sorghum, sesame, vegetables and groundnuts insect pests.
- 4- Biological Control: by Using *Bacillus thuringensis* for the control of field crops and vegetables insect pests,.
- 5- Using of Botanical Insecticides for insect pests control in Rainfed areas,
- 6- Studies on Mechanisms of resistance to sorghum insect pests,
- 7- Insect biology and Ecology,
- 8- Assessment of Natural enemies' efficacy,
- 9- Chemical control,
- 10- Insect biochemistry & biotechnology
- 11- Simulation model for insect predictions.
- 12- Evaluation of GMOs crops under Sudan conditions

### **Crop Management:**

Rainfed Sorghum crop, sowing date, breeding for resistance, cultural tactics and pests management. Sesame, *Sesamum indicum*, all cultural tactics and insect pests' management. Sunflower pests' management.

## **KEY QUALIFICATIONS**

- 1 More than 18 years of professional experience with rainfed agricultural (Sorghum) management and insect pests control.
- 2 Lecturer,(Part-timer) Faculty of Agriculture and Environmental Studies, University of Gedarif .

- 3 Lecturer,(Part-timer) Faculty of Education, Biology Department , University of Gedarif , Sudan .
- 4 Project and programme planning and management, including supervision of large multidisciplinary technical assistance projects and studies.
- 5 Team Leader of project: Sustainable intensification of sorghum-legume system to improve livelihood and adaptation to climate change in Semi-Arid areas of Eastern and Central Africa (ECA) in Gedarif State (Eastern Sudan).
- 6 Team member, Introducing BT Cotton & investigations in The Sudan.
- 7 Team member of Improvement of sorghum productivity under rain fed conditions.
- 8 Team leader, of “ Evaluation sorghum for drought and insect pests resistance under Gedarif dry conditions.”
- 9 Team member of UNEP Mission for Environmental situation assessment in Eastern Sudan.
- 10 Team Member of Project for International Strategy for adaptation with Climatic change effects in Eastern Sudan (Supervised by UNDP).
- 11 Responsible for strategic planning & Research (Sudanese-Ethiopian Friendship society).
- 12 Cooperate with Extension and technology transfer department for training and technology transfer.
- 13 Head, Sudanese Environment Conservation Society (2003-2006/ 2008-2010).
- 14 Member, Sudanese Natural Products Society.
- 15 Member, Japanese Society of Applied Entomology and Zoology.
- 16 Member, Arab Society for Plant Protection.
- 17 Member, Sudanese Society for Plant Protection.
- 18 Member, Pesticides Council, Gedarif State.
- 19 State Team member, Community radio in Development, Eastern Sudan.
- 20 Head, Al-Hilal Football Club, Gedarif State, Sudan.
- 21 Head, State Association of Tennis Table

## EMPLOYMENT RECORD

- 2004: Assistant Research Professor, Gedarif Research Station, the Agricultural Research Corporation, Crop Protection Research Center
- 2000- 2004: Research Scientist, Gedarif Agricultural Research Station (Rainfed Research Station) ARC. , Research Section, field crops and Rainfed insect Pests Management
- 1997 – 2000: Research Assistant Scientist, Crop Protection Research Centre, Gezira Research Station (ARC).

## LANGUAGES

Language	Speaking	Reading	Writing
Arabic	Mother tongue		
English	Excellent	Excellent	Excellent
French	Fair	Fair	Poor

## PUBLICATIONS

- 1- Suliman, E. H. and Omer, I. E (2015). Evaluation of Regent 500 FS (fipronil) for the control of soil and seedling insects of sesame under Gedarif rainfed conditions. The 92<sup>nd</sup>. Meeting of National Pests and Diseases Committee, Agricultural Research Corporation, Hussein Idress Hall, 29-7-2015. Wad Medan, Sudan.
- 2- Suliman, E H, Salman, H A, Mohamed, E I, Salih, S A, Ali, A E, Adam, M H M Hassan, M K, Mohamed, A H, Elnour, O A and Kannan, H O (2015). Screening of some sorghum genotypes for resistance to sorghum midge, *Stenodiplosis* = (*Contarinia*) *sorghicola* Coquillet (Diptera: Cecidomyiidae) under Gedarif rainfed conditions. Journal of Basic and Applied Research International.2015; 2(4) 150-156.
- 3- Suliman, E H, Elhassan, O M, Ali, A. M and Kamal, N M (2015). Evaluation of two Chinese Bt cotton genotypes against the African bollworm, *Helicoverpa armigera* (Hubner) damage under Sudan rainfed conditions. Sch J Agric Vet Sci 2015; 2(2A):102-107.

- 4- Suliman,E.H, Bashir, N. H. H. and Y. O. Asad (2015). EVALUATION OF SOME INSECTICIDES FOR THE CONTROL OF SESAME WEBWORM, *Antigastra catalaunalis* DUP. UNDER GEDARIF RAINFED CONDITIONS .Journal of Basic and Applied Research International, Vol.: 6, Issue.: 3. Page 172-177
- 5- E. H. Suliman, N. H. H. Bashir, and Y. O. Asad (2014). Efficacy of two *Bacillus thuringiensis* subsp. *Kurstaki* formulations in the field against sesame webworm, *Antigastra catalaunalis* (Dup.) (Lepidoptera: Pyraustidae) on sesame. Canadian Journal of Plant Protection. Volume 2, Number 1, Pages 4-8 ©2014 Canadian Science and Technology Press Inc.
- 6- E. H. Suliman (2014). Evaluation of Regent 500 FS (Fipronil) and Catch 70 WS (Imidacloprid) for the control of central shootfly, *Atherigona soccata* Rondani (Diptera: Muscidae) on sorghum. Canadian Journal of Plant Protection. Volume 2, Number 1, Pages 1-3 ©2014 Canadian Science and Technology Press Inc.
- 7- Suliman, EH and Traieza N B (2013). Evaluation of Cyprofen 220 UL (cypermethrin 20g/l profenfos 200 g/l) against the African bollworm, *Helicoverpa armigera* (Hub.) on Sunflower under Gedarif State rainfed conditions. World Journal of Scientific Research & Reviews. Vol. 1, No. 1, December, 2013, pp 1-7.
- 8- Suliman;EH, R.M. Khafagi and Elamin M. Elamin (2013).Effects of Tannin contents of several varieties of sorghum on the damage caused by the African bollworm, *Helicovrepa armigera* (Hub.) (Lepidoptera: Noctuidae) in the Sudan.
- 9- Suliman, EH, Nabil, H.H. Bashir and Yousif, O.H. Asad (2013).Evaluation of some Natural products for the control of sesame webworm, *Antigastra catalaunalis*, (Dup.) in Gedarif State, SUDAN. Global Journal of Medicinal Plant Research, 1(1): 128-131, 2013.
- 10- Suliman; EH, Nabil H. H. Bashir; El Ameen M.A. El tom and Yousif O. H. Asad (2013). Biology and Webbing behaviour of Sesame webworm, *Antigastra catalaunalis* Duponchle (Lepidoptera: Pyraustidae) in the Sudan. Global Journal of Medicinal Plant Research, 1(2): 210-213, 2013.
- 11- Suliman, EH (2011). Effects of Neem leaves powder on groundnuts termites, *Microterms thoracolis* and white curbs, *Phyllophaga crinita* and

- on Yield in Gedarif State. Journal of Biodiversity and Ecological Sciences. No.1, Issue2 ,ISSN: 2008-9287, Spring 2011 JBES.
- 12- Suliman;EH, Yassin E. Hassan; Mohamed H. Mohamed; Hanan A. Sulman; Mohamed K.Hassan; Ali E. Ali and H.C. Sharma (2009). Evaluation of resistant sorghum genotypes to sorghum midge, *Contarinia sorghicola* Coquiliet (Cecidomyidae: Diptera), resistance under Sudan rainfed conditions.Sudan Journal of Agricultural Research. Vol. 14, 2009.pp. 61-68.
  - 13- Suliman, EH and Nabil H. H. Bashir (2014). Studies on central shootfly, *Atherigona socatta* (Rondani) resistance in sorghum (*Sorghum bicolor* (L.) Moench) under Gedarif Rainfed conditions. Proceedings of 3<sup>rd</sup>. Conference of Pests Management in the Sudan, 3-4, 2014. p 168.
  - 14- Abdalla Mohamed, E. H. Suliman, Rasha Ali, Y. Gamar, C.Mugoya, C. Masiga, S. Deshpande, D. Kiambi4,A. Abu-Assar1, O. Elhassan,, I. Elsadig and C.T.Hash (2012).Dossier application for release of four *Striga* resistant sorghum varieties in the Sudan.Proceedings of Varities Released Committee, 10-12 June, 2012, Khartoum, Sudan.
  - 15- Abdelbagi M. Ali, Lei Zhang and E. H. Suliman,(2012). A Proposal for the Release of a Hybrid and a Variety of Bt-Cotton (*G. hirsutum*) for Production in the Sudan. Proceedings of Varieties Released Committee, 14-15 March, 2012, Khartoum, Sudan.
  - 16- El Nayer H. Suliman (2004). Geographical distribution and seasonal abundance of insect pests and natural enemies in Gedarif State . Proceedings of The 2<sup>nd</sup>. Conference of pest Management, Gezira University, Wad Medani, Sudan , December 2004.
  - 17- El Nayer H. Suliman and Madadi M. Zein (2002). Evaluation of Malathion 5% powder for the control of Sesame seed bug, *Elasmolomus Sordidus* (Fab). Proceedings of XVTH International Plant Protection Congress, Beijing, China, June, 2003.
  - 18- El Nayer H. Suliman, and Hassan O. Kannan (2004). Evaluation of some seed dressing for the control of central shootfly, *Atherigonea soccata* (Rondani) at Northern Gedarif .Proceedings of the 70<sup>th</sup> . Meeting of the Pests and Disease Committee, Agric. Res Corporation, Wad Medani, Sudan, June, 2004.

- 19- El Nayer H. Suliman and M. M. Zein (2004). Evaluation of some botanical insecticides for the control of sesame webworm, *Antigastra catalaunalis* under rainfed conditions in Northem Gedarif. The 2<sup>nd</sup>. Conference of Pest Management, Gezira University, Wad Medani, Sudan, December 2004.
- 20- El Nayer H. Suliman, E.M .Elamin and H. O. Kannan (2004). Appearance, Incidence and Damage of the African bollworm, *Helicoverpa armigera* (Hub) in the Field. Proceedings of the 2<sup>nd</sup> .Conference of Pest Management, Gezira University, Wad Medani, Sudan, December 2004 .
- 21- El Nayer H. Suliman and Nabil H. H. Bashir (1999). Effects of *Citrullus coloncynthis* water – Extract on *Henoespilachna elatrii* (Rossi) (Coleptera: Coccinellidae).Sudan Journal of Agriculture, Vol: 2, pp 23-28. , Sudan University of Sciences and Technology.
- 22- El Nayer H. Suliman and M .M. Zein (2005) .Evaluation of Al Fares 0.25% Powder at different dose rates for the control of sesame seed bug, *Elasmolmus sordidus* (Fabricius) “El Kauak on sesame. Proceedings of the 72nd. Meeting of the Pests and Disease Committee, Agricultural Research Corporation, Wad Medani, Sudan, September, 2005.
- 23- El Nayer H. Suliman and A.E. Ali (2004). Effects of sowing dates and variety on the incidence of sorghum midge, *Contarinia sorghicola* (Coq.) In Gedarif. Proceedings of the 2nd Conference of Pest Management, Gezira University, Wad Medani, Sudan, December 2004.
- 24- El Nayer H. Suliman (2008). Evaluation of the seed-dressing Imidal 70 WS (imidacloprid) against the central shootfly, *Atherigona soccata* (Diptera: Muscidae) on sorghum. The 78<sup>th</sup>. Meeting of the National Pests and Diseases Committee, June, 2008.
- 25- El Nayer H. Suliman (2008). Evaluation of Gaucho 600 FS (imidacloprid) + Raxil 120 FS (Tebuconazole) against the central shootfly, *Atherigona soccata* (Diptera: Muscidae) on sorghum. The 78<sup>th</sup>. Meeting of the National Pests and Diseases Committee, June, 2008.
- 26- **El Nayer H. Suliman**, Musa B. T. El Sir. E. M and A. Zein (2002).Farmer Handbook for Vegetables and legumes Production Ministry of Agriculture and Animal wealth and irrigation. Gedarif State, Sudan.



- 27- Musa B. T, **El Nayer H. S**, Ell Sir. E. M and A .M. Zein (2002) . Farmer Handbook for field crops Production. Ministry of Agriculture and Animal wealth and irrigation. , Gedarif State, Sudan.
- 28- Abdelmonim. AM. Zain ,Musa B.T , El Sir . E. M and **Elnayer H. S.** (2002) Farmer Handbook for animal production. Ministry of Agriculture and Animal wealth and irrigation. Gedarif State , Sudan
- 29- El Sir. E. M, **El Nayer H. S**, Musa B. T, and M .M. Zein (2002). Farmer Handbook for natural resources Production .Ministry of Agriculture and Animal wealth and irrigation. Gedarif State, Sudan.

### **Annual Reports:**

- 1- El Nayer H. S. (1999) Annual Report, Agricultural Research Corporation, Gedarif Research Station 1999 – 200, Sudan.
- 2- El Nayer H. S. (2001) Annual Report, Agricultural Research Corporation, Gedarif Research Station 2000-01, Sudan
- 3- El Nayer H. S. (2002) Annual Report, Agricultural Research Corporation, Gedarif Research Station 2001-02, Sudan .
- 4- El Nayer H. S. (2003) Annual Report, Agricultural Research Corporation, Gedarif Research Station 2002 – 03, Sudan .
- 5- El Nayer H. S. (2004) Annual Report , Agricultural Research Corporation, Gedarif Research Station 2003 – 04 , Sudan .
- 6- El Nayer H. S. (2005) Annual Report, Agricultural Research Corporation, Gedarif Research Station 2004- 5, Sudan.
- 7- El Nayer H. S. (2006) Annual Report, Agricultural Research Corporation, Gedarif Research Station 2005- 6, Sudan
- 8- El Nayer H. S. (2007) Annual Report, Agricultural Research Corporation, Gedarif Research Station 2006-0 7, Sudan
- 9- El Nayer H. S. (2008) Annual Report, Agricultural Research Corporation, Gedarif Research Station 2007-0 8, Sudan
- 10- El Nayer H. S. (2009) Annual Report, Agricultural Research Corporation, Gedarif Research Station 2008-0 9, Sudan
- 11- El Nayer H. S. (2010) Annual Report, Agricultural Research Corporation, Gedarif Research Station 2009-2010, Sudan
- 12- El Nayer H. S. (2011) Annual Report, Agricultural Research Corporation, Gedarif Research Station 2010-2011, Sudan.



- 13- El Nayer H. S. (2012) Annual Report, Agricultural Research Corporation, Gedarif Research Station 2011-2012, Sudan.
- 14- El Nayer H. S. (2013) Annual Report, Agricultural Research Corporation, Gedarif Research Station 2012-2013, Sudan.
- 15- El Nayer H. S. (2014) Annual Report, Agricultural Research Corporation, Gedarif Research Station 2013-2014, Sudan.
- 16- El Nayer H. S. (2015) Annual Report, Agricultural Research Corporation, Gedarif Research Station 2014-2015, Sudan.
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### **Participations:**

- 1- The National Pests and Diseases Committee since 67<sup>th</sup>. Meeting up to 91 1<sup>st</sup>. Meeting.
- 2- The National Crop Husbandry Committee since 32<sup>nd</sup>, up to 56<sup>th</sup>. Meeting.
- 3- The 2<sup>nd</sup> . Conference of Pest Management, Gezira University, Wad Medani, Sudan, December 2004.
- 4- XVTH International Plant Protection Congress, Beijing, China, June, 2003.
- 5- 2<sup>nd</sup> . Asian Conference of plant pathology, 2003. National University of Singapore, Singapore.
- 11<sup>th</sup>. IUPAC International Congress of Pesticides Chemistry, August, 6-11, 2006, Port Island, Kobe, Japan.
- 6- IPM workshop, 10-13 March, 2005. Anand Agricultural University, Gujarat State, India.
- 7- The first African Congress in Pesticides & Toxicology, Gezira University, Nov., 8-11 , 2008, Wad Medani, SUDAN.
- 8- Ministry of Agriculture, Crop Production Department, TOT Program, July- November, 2007, Gash Barka Zoba, Eritrea State.
- 9- Community Radio and Development workshop, 22-30, June, 2006, Kampala, Uganda.
- 10- Inception Meeting of the Project “SUSTAINABLE INTENSIFICATION OF SORGHUM-LEGUME BASED SYSTEMS FOR IMPROVED LIVELIHOOD & ADAPTATION TO CLIMATE CHANGE IN ECA” 23<sup>rd</sup>. Jan.-26<sup>th</sup>. Jan., 2012 Khartoum Plaza Hotel - Sudan.

- 11- Plan & Review Meeting of the Project “SUSTAINABLE INTENSIFICATION OF SORGHUM-LEGUME BASED SYSTEMS FOR IMPROVED LIVELIHOOD & ADAPTATION TO CLIMATE CHANGE IN ECA” 18. 21, Nov., November, Arush, Citylink Hotel, Tanzania, 2012
- 12- Final Meeting of the Project “SUSTAINABLE INTENSIFICATION OF SORGHUM-LEGUME BASED SYSTEMS FOR IMPROVED LIVELIHOOD & ADAPTATION TO CLIMATE CHANGE IN ECA” 11-16 November, 2013 Paradise Hotel, Khartoum Sudan, 2013.
- 13- The 3<sup>rd</sup>. National Conference of Pests Management in the Sudan, 3-4 February, 2014 Wad Medani, Agricultural Research Corporation, Gezira, Sudan.
- 14- Harnessing Genetic Resources for Enhanced Productivity and Competitiveness of Sorghum In East & South Africa (EAS), Hussein Idress Hall, Wad Medani, ARC, December, 23<sup>rd</sup>. 2014, Sudan.
- 15- Writeshop to finalize the International Treaty for FAO Proposal, Kaleb Hotel, 26-28 November, 2014, Addis Ababa, Ethiopia.
- 16- 2014 Seminar on Sustainable Development of Agricultural Technology Demonstration Centers for English-speaking Countries in Africa, 21<sup>st</sup>. Century Hotel, July, 30 – August 19, 2014, Beijing, People Republic of China.
- 17- GENDER MAINSTREAMING IN AGRICULTURAL RESEARCH FOR DEVELOPMENT, KANON HOTEL, 14<sup>th</sup> – 17<sup>th</sup> April 2014, KHARTOUM, SUDAN.
- 18- SORGHUM AND FINGER MILLET REGIONAL PLANNING MEETING 3<sup>rd</sup>. to 5<sup>th</sup>. March, 2014, Boma Hotel, Nairobi, Kenya.
- 19- Gender Mainstreaming Workshop, Labor Union Hall, 28-30 October, 2013, Gedarif, Gedarif State, Sudan.

### **Achievements:**

#### **1- Food security: (Daryland Sorghum)**

- a- Released 6 sorghum varieties as a source of resistance to sorghum midge in the Sudan- 2007

- b- In Participation with ARC team, Released 4 resistant varieties to *Striga hermintheca* in the Sudan- 2012
- c- Increasing smallholders sorghum productivity from 200 Kg/Fedd to 900 Kg/fed in Eastern area of Gedarif State (Saraf saeed area, Basunda locality).2012
- d- Increasing Smallholders sorghum productivity from 100 Kg/fedd to 700 Kg/fedd in Northern area of Gedarif State (Wad Elhory area, Western Galabat Locality) 2013.
- e- Supplied Local community in Wad Elhory area with Millers & Dhullers for sorghum value addition.2013
- f- Released Gaucho70 WS and Cruseir for controlling Sorghum central shootfly in the rain fed sorghum in the Sudan.
- g- Released of Imidal 70 WS and Catch 70 WS for controlling soil insect pests
- h- Released Gaucho 600 FS and Raxil 120 FS for controlling sorghum Central shootfly & Kernel covered smut disease on sorghum in the Sudan.
- i- Released Regent 500 FS for the control of sorghum soil insect pests in Gedarif state.
- j- Made simulation model for sorghum midge prediction in Gedarif State.2010.

## **2- Sesame and its environment:**

- a- Released Malathion 5% WP to control sesame seed bug under Gedarif rain fed conditions.2002
- b- Released of ElFaris 025% for the control of Sesame seed bug, in the rainfed sesame. 2005
- c- Released Sesame pesticides Method application to reduce crop contamination and keep environment safe.2002
- d- Released Cyperpro 025% for the control of sesame seed bug in Gedarif State. 2013
- e- Released of Regent 500 FS for the control of sesame soil insect pests in Gedarif State, 2014.
- f- Reporting gall fly as new pest attacking sesame in Gedarif State during rainy season. 2013

- g- Reporting new moth (*Cerlio leneata*) as new insect pest in the Sudan , 2013.

### **3- Sunflower**

- a- Study susceptibility of Sunflower Cultivars to major insect pests under Gedarif rain fed conditions.2010
- b- Released of Cyprofen 220 UL for the controlling the African bollworm in Gedarif rain fed areas 2011.

### **4- Groundnuts:**

- a- Released of Neem leaves powder for the control of groundnuts termites in Gedarif State, 2005.

### **5- Vegetables & Fruits:**

- Detecting and Recorded Fruit flies in Mango 2011
- 90% Controlled of Fruit fly in Rahad River growing area by using new pheromone.2011
- Detecting new scale insect attacking Mango trees 2014.
- Writing Extension Guide book for vegetables production & protection 2002.

### **6- Cotton:**

- a- In Collaboration with ARC Scientists, Released New Bt cotton Variety (Seeni 1) for commercial production in the Sudan, 2012.
- b- Testing New Indian BT cotton hybrid for Bollworm resistant in the Sudan. 2013.
- c- Testing New Chinese BT cotton variety against the cotton bollworms in the Sudan. 2012-2013/2013-2014.(Ready to released)
- d- Increasing cotton productivity from 200-300 Lb to 1100-1400 Lb in three growing Zones in Gedarif State. 2011-2013.

### **7- Climate change:**

- a- Studied, impact of climate change on Geographical distribution and seasonal abundance of insect pests, 2002.
- b- Impact of Climate Change on Population Dynamics of Insect Pests in Gedarif State, 2010.
- c- Impact of climate change farmers living systems in Gedarif State 2010/2013.
- d- Generate new technologies for adaptation with climate change, 2011.

- e- Testing of new sorghum varieties for adaptation with climate change in Gedasrif State, 2013.