

Animal Production Department, Faculty of Agriculture, Assiut University
Assiut, Egypt, 71526

Dear Sir/Miss:

While I was searching for a great opportunity to upgrade my skills and to apply what I have learned for data handling and applying several software applications to estimate heritability and correlations between traits examined in research. Please accept my application as I feel that my experience will allow me to excel in this position.

Through my work on my Master degree, I have learned how to apply different statistical models using SAS and MTDFREML software packages to compare between different models for ease of use and accuracy, and to early predict performance for early selection. Then I moved to the next stage where I worked on my Doctoral degree. I spend two years in University of Minnesota, USA (2012 – 2014). On that period, I learned how to work with BLUPf90 software package (works under Fortran 90) to estimate breeding value, heritability and phenotypic and genetic correlations between studied traits plus its ability to add genomic data into the model used for more accuracy. Also, I have attended several online courses where I learned how to use R, ABTK, and AWK language for data analysis.

I hope you will find my research and communications skills in English plus my facility for working with large amounts of data will make me an excellent fit for the position.

Thank you for your time and consideration.

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Mohamed Soliman Moselhy Mousa

Objective

It gives me pleasure to join your work team, also I want to upgrade my skills by learning new methodologies in handling and presenting data from farm animal species, communication and dealing with others and take undependable decisions.

Positions

- Graduated from Assiut University in June, 2001 (very good with owner).
- 2001- June 2015: Teacher assistant, Animal Production Department, Faculty of Agriculture, Assiut University.
- Research associate, Animal Science Department, Faculty of Agriculture, University of Minnesota, USA.
- Mar 2018 – Mar 2019: Post-Doctoral position, Animal Science Department, Faculty of Agriculture, University of Minnesota, USA.
- July 2015 – Till now: Lecturer, Animal Production Department, Faculty of Agriculture, Assiut University.
- More specified in Animal Breeding and Genetics field.
- Finished my Master degree on estimating models on the genetics of the lactation curve in Animal Breeding.
- Gained a Joint Supervision Ph.D. program from April 2012 to April 2014. Animal Science Department, Faculty of Agriculture, University of Minnesota, USA.
- Finished my Doctoral degree on estimating heritability for calf-hood health and fitness traits and examine fitting those traits into the selection indices. June 2015.
- Gained a Post-Doctoral program from March 2018 to March 2019. Animal Science Department, Faculty of Agriculture, University of Minnesota, USA.

Personal Information

- Marital status: married.
- Military service: exempt.
- Parents: Egyptians.
- Nationality: Egyptian.

Date & place of birth

- 05/01/1980.
- Assiut, Egypt.

Language skills

- Arabic (Mother language).
- English (very good speaking and writing).
- (TOEFL Local score: 530).
- International TOEFL score (CBT) 243 (listening 25, structure and writing 24, reading 24, essay 4) on 26/06/2006.
- International TOEFL score (iBT) 76 (listening 17, speaking 19, reading 22, writing 18) on 09/05/2009.
- Attend an AMIDEAST English language course in intermediate and pre-intermediate levels.

Education

- 1983-1988: University Primary School, Maryland, USA
- 1988-1991: Badr Language Primary School, Assiut, Egypt
- 1991-1994: Nasr Elementary School, Assiut, Egypt
- 1994-1997: Nasr Secondary School, Assiut, Egypt
- 1997–2001: Assiut University, Faculty of Agriculture, Assiut, Egypt
- 2001- 2012: Teaching Assistant in Animal Production Department, Faculty of Agriculture, Assiut University
- 2012-2014: Joined animal Science Dep., University of Minnesota, USA under a joint supervision program
- 2015 – Till now: Lecturer in Animal Production Department, Faculty of Agriculture, Assiut University
- Finished a Master degree on Apr.2008 under title "**A genetic study of lactation curve in a herd of Holstein cattle in Egypt**" Dep. of Anim. Prod., Fac. of Agri., Assiut Uni., Assiut, Egypt.
- Finished a Philosophy of Doctoral degree on June 2015 under title "**Estimation of genetic parameters for measures of calf survival, health measures, growth and their associations with subsequent performance in first lactation**" Dep. of Anim. Prod., Fac. of Agri., Assiut Uni., Assiut, Egypt.

National training, certifications and awards

- Advanced workshop on preparation of a leadership activities at Helwan, Cairo, Egypt. 2003.
- Advanced workshop on preparation of a Teacher activities at Assiut University, Assiut, Egypt 6-12 Dec. 2003.
- FLDP (Faculty and Leadership Development Project), attended several workshops: Teaching with Technology, Active learning, Thinking skills, Law issues of the Universities, How to compete for a research fund, International publishing of research, Conference organization, University administration, and Communication manners in different learning methods.
- Intro. Excel & Access with grade excellent.
- Best student award in year 2000 (third grade in the Faculty of Agriculture, Assiut University).
- HEEPF (Higher Education Enhancement Project Fund): Advanced Theoretical and Practical Topics o PCR (level II) (12-15/12/2005).
- International Computer Driving License (ICDL) April 2009.
- GRE (Graduate Record Exam) general test Dec. 2009.

- Applications of Biotechnology course 12-14 April 2010.
- Gained a fully funded joint supervision program to University of Minnesota, USA.
- Attended several online Animal Breeding & Genetics courses, University of Minnesota, USA.

Research experience

- Able to arrange farm animals' data to be ready for analyses.
- Working with **SAS & R** software in analyzing data.
- Working with **MTDFREML, Blupf90, "ABTK"** (Animal Breeding Tool Kit), and other software packages in assembling and solving equation systems and predicting animal performance for selection schemes.

Student training and supervision

- Teaching under/graduate students principles of Animal breeding and genetics, Husbandry, and Bio-statistical courses.
- Supervising under/students on summer training.

Conferences

<ul style="list-style-type: none"> • <i>6th International Conference On Rabbit production in hot climate, Assiut, 1-4 Feb. 2010, Faculty of Agriculture, Assiut University, Egypt.</i> 	<ul style="list-style-type: none"> • listener
<ul style="list-style-type: none"> • <i>1st International Conference On Biotechnology Applications In Agriculture, Moshtohor-Hurghada, 18-22 February 2012, Faculty of Agriculture, Benha University, Egypt.</i> 	<ul style="list-style-type: none"> • listener
<ul style="list-style-type: none"> • <i>ADSA-ASAS Joint Annual Meeting (JAM) 8-12 July 2013, Indianapolis, Indiana.</i> 	<ul style="list-style-type: none"> • presenter
<ul style="list-style-type: none"> • <i>International conference of Animal Production, Hurghada, 7-10April 2015, Egyptian society of Animal Production (ESAP), Egypt.</i> 	<ul style="list-style-type: none"> • presenter
<ul style="list-style-type: none"> • <i>ADSA-ASAS Joint Annual Meeting (JAM) 24-28 June 2018, Tennessee.</i> 	<ul style="list-style-type: none"> • listener

Extracurricular activities

- Assisting in the establishment of the Agriculture Computing for helping faculty staff and graduate students in designing their experiments and in analysis and interpretation of their results; procurement necessary software for the analyses and implementing of different statistical software i.e. R, REMLf90, Minitab, SPSS, BMDP, SAS, Table Curve 2D, 3D and others.
- Participated in the 37th Agriculture sports workshop (1- 4 Feb. 2009).
- Organize reference materials, visual aids and other materials.
- Conduct seminars, discussion groups, and laboratory sessions to supplement lectures.
- Preparing and administrating exams, grade examinations, term papers, and laboratory reports.

- Assisting under/ graduate students in conducting mathematical models to “best fit” their data for analyses.
- Assisting under/ graduate students through summer practical training courses.
- Participated in the 6th International conference “Rabbit Production in Hot Climate” 1 - 4 Feb. 2010.

Skills & Interests

- Ability to work on a variety of projects and to prioritize.
- Curiosity and an eagerness to contribute to a small team.
- Exceptional research skills.
- Microsoft office package (word, excel, power point).
- Tennis, running, biking, reading, computers (hardware & software), and traveling.

Publications

- Mousa, M. S. 2015.** Estimation of genetic parameters for measures of calf survival, health measures, growth and their associations with subsequent performance in first lactation. Ph.D. thesis submitted to the Faculty of Agriculture, Assiut University, Assiut, Egypt.
- Mousa, M. S., A. J. Seykora, H. Chester-Jones, D. M. Ziegler, and J. B. Cole. 2013.** Heritability estimates of performance and health traits of Holstein calves. Poster presentation, ADSA-ASAS Joint Annual Meeting (JAM) 8-12 July 2013, Indianapolis, Indiana.
- Mousa, M. S., A. J. Seykora, M. A. Abdellatif, and E. F. Mousa. 2015.** Heritability and genetic correlations of age at first calving as affected by calf-hood fitness and health traits in Holstein heifers. *Egyptian J. Anim. Prod.*, 52, Suppl. Issue, April (2015):37-43.
- Mousa, M. S., Emad, F. M., Galal, S. 2011.** Estimation of genetic and phenotypic parameters of the lactation curve of Holstein Frisian using incomplete gamma function. (Under press).
- Mousa, M. S., Emad, F. M., Galal, S. 2011.** Estimation of genetic and phenotypic parameters of the lactation curve of Holstein Frisian using accumulative milk yield. (Under press).
- Mousa, M. S. 2008.** A genetic study of lactation curve in a herd of Holstein cattle in Egypt. M.Sc. thesis submitted to the Faculty of Agriculture, Assiut University, Assiut, Egypt.

References

- **Prof. Dr. Anthony James Seykora**
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- **Prof. Dr. Mohamed Kadry Omara**
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- **Prof. Dr. Mohamed Abo Elkasem Abd Ellatif**
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