

# Curriculum Vitae

## Dr Essam Shaalan

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**Date of Birth:** 9/6/1968.

**Place of Birth:** Egypt.

**Nationality:** Egyptian.

**Sex:** Male.

**Marital Status:** Married (9 years old daughter).

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# PROFESSIONAL PROFILE

## Qualifications

PhD	Integrated Control of Mosquitoes	SVU, Egypt & JCU, Australia	2005
MSc	Ecology and Biological Control of Mosquitoes	South Valley University, Egypt	1997
Cert	Postgraduate Studies on Zoology “Entomology”	South Valley University, Egypt	1993
BSc	Entomology	Zagazig University, Egypt	1990

## Career

Lecturer	2005-Present	South Valley University, Egypt
Visiting Lecturer	2008 (March-June)	University of British Columbia, Canada
Research Fellow	2007 (March – September)	University of Aberdeen, UK
Casual Lecturer	2002-2004	James Cook University, Australia
Assistant Lecturer	1997-2002	South Valley University, Egypt
Demonstrator	1991-1997	South Valley University, Egypt

## English Language Proficiency

2002	Effective Speaking Course, James Cook University, Australia.
2001	Test of English as a Foreign Language (TOEFL International).
1998	The Preliminary English Test (PET), University of Cambridge, England.
1998	English Course (Intermediate Level-Course 3), the British Council, Cairo, Egypt.
1998	English Course (Intermediate Level-Course 2), the British Council, Cairo, Egypt.

## French Language Proficiency

2005-2006 French Course, Centre of French Language Studies at Aswan, Egypt (2 Courses).

## Invitations to act as a reviewer, editor or assessor

- 1- Reviewer and Member of the editorial board, Journal of Rural and Remote Environmental Health (2002- to present time).
- 2- Technical editor in the following journals:
  - Asian Journal of Biological Sciences (January 2008 to present time).
  - Journal of Biological Sciences (January 2008 to present time).
  - Journal of Entomology (January 2008 to present time).
  - Pakistan Journal of Biological Sciences (January 2008 to present time).
  - Research Journal of Parasitology (January 2008 to present time).
- 3- Reviewer, Journal of Vector Borne of Diseases (August 2008- to present time).
- 4- Reviewer, Biological Control (November 2010)
- 5- Reviewer, Journal of advanced research (November 2010)
- 6- Reviewer, Journal of Asia Pacific Entomology (November 2010)
- 7- Reviewer, Journal of Advanced Research (November 2010)
- 8- Reviewer, the first scientific conference for higher education students, Ministry of higher education, Saudi Arabia (January 2010).

## **Invitations to act as thesis examiner**

I examined the following thesis:

2010 Ph.D. Phytochemical analysis and mosquitocidal efficacy of *Gloriosa superba* (L) against *Aedes aegypti* (L) and *Culex quinquefasciatus* (Say) (Diptera: Culicida).  
Bharathiar University, India.

## **Membership of professional bodies**

- Member in the Egyptian Syndicate of Scientific Professions.
- Member in the British Pest Control Association.
- Member in Saudi Biological Society (Since May 2010).
- Member in Several Electronically Discussion Groups.

## **Workshops, training courses and conferences**

I have been attended and participated in several workshops, national and international conferences and training courses. Costs were covered either by organizing institution, South Valley University or King Faisal University. These are listed below:

- Workshop on strategic planning (20 June 2010).
- The preparatory workshop to put strategic plans for scientific research in the coming 10 years (2 June 2010).
- Skills and tools for utilizing Blackboard (1-3 May 2010).
- Skills of successful and distinguish researcher (24-26 April 2010).
- Building university evaluation skills for university staff (29-30 March 2010).
- Quantitative research and SPSS software (27-29 February 2010).
- Enhance Communications in WebCT vista (Centre for Learning and Teaching, University of British Columbia, Canada 8 April 2008).
- WebCT vista Bootcamp II (Centre for Learning and Teaching, University of British Columbia, Canada 1 April 2008).
- Social Software (Centre for Learning and Teaching, University of British Columbia, Canada 20 March 2008).
- Overview of WebCT vista Bootcamp I (Centre for Learning and Teaching, University of British Columbia, Canada 18 March 2008).
- TOT course (Microsoft Egypt, 1/1-18/2/2008).
- Information and Communication Technology “Staff Member 2” Training Program (Aswan Faculty of Science, South Valley University, Egypt 2008).
- Using technology in classrooms (Information and Communication Unit, South Valley University, Egypt, 28/11-3/12/2007).
- Creating Online Tests Using Questionmark Perception (Centre for Learning and Teaching, University of Aberdeen, UK 29 August 2007).
- Using the ACTIVE Electronic Lectern Panels/Whiteboards in Your Teaching (Centre for Learning and Teaching, University of Aberdeen, UK 16 August 2007).
- Using Podcasts and Vodcasts in Your Teaching (Centre for Learning and Teaching, University of Aberdeen, UK 17 May 2007).
- Tutoring Online (Centre for Learning and Teaching, University of Aberdeen, UK 2 May 2007).
- Using the Personal Response System (PRS) in Lectures (Centre for Learning and Teaching, University of Aberdeen, UK 27 April 2007).
- Assistive Technology (Centre for Learning and Teaching, University of Aberdeen, UK 27 April 2007).

- Workshop on Biological Control Agents as Efficient Alternatives to Chemical Pesticides for Safe Environment (Applied Centre for Entomonematodes, Faculty of Agriculture, Cairo University, Egypt 13-18 January 2007).
- First Training Course on Quality Assurance and Accreditation (Quality Assurance and Accreditation Unit, South Valley University, Egypt 2006).
- Information and Communication Technology “Staff Member 1” Training Program (South Valley University, Egypt 2006).
- Credit Hours System (South Valley University, Egypt 2006).
- Scientific Research Management (South Valley University, Egypt 2006).
- Workshop on Techniques in Molecular Biology (South Valley University, Egypt 2006).
- Effective Teaching Skills (South Valley University, Egypt 2005).
- Teaching with Technology (South Valley University, Egypt 2005).
- Generic skill courses (James Cook University, Australia 2002-2004).
- Training Course on Planting and Production of Woody Trees (Horticulture Research Institute, Egypt 1997).
- Training Course on Environmental and Health Effects of Pesticide Exposure (Cairo University, Egypt 1997).
- Afflaton 1<sup>st</sup> Conference of Entomology (Cairo University, Egypt 2001).
- 11<sup>th</sup> International Conference of the Egyptian German Society of Zoology (South Valley University, Egypt 2001).
- 4<sup>th</sup> Euro-Mediterranean Conference on Laser and Photobiology Applications in Medicine, Environment and Biotechnology (Cairo University, Egypt 2001).
- The International Pest Control Exhibition, Conference and Training Programme “PESTA 2000” (Cairo, Egypt 2000).
- 7<sup>th</sup> International Conference of the Egyptian German Society of Zoology (South Valley University, Egypt 1997).
- First training course for preparation of university lecturers, Aswan Faculty of Education, South Valley University, Egypt (1995).

### **Community service relevant to the field of expertise**

- Presentation on effect of development on mosquito prevalence in Lake Nasser, second workshop on lake Nasser development, Geology Department, Aswan Faculty of Science, Aswan, Egypt (7<sup>th</sup> November 2007).
- Presentation on the role of aquatic invertebrates as bioindicators for water quality in Lake Nasser, second workshop on lake Nasser development, Geology Department, Aswan Faculty of Science, Aswan, Egypt (7<sup>th</sup> November 2007).
- Insect biodiversity presentation in youth scientific culture programme, Egyptian Ministry of Culture, General Authority of Culture Palaces, Aswan Culture Palace, Egypt (2006).
- Participating in Environment Improvements Project (surveillance and mosquito control with insecticide alternatives), Aswan, Egypt (CARE organization, 1996-2000).
- Answering queries and providing information to the public, local government, and local media.

# TEACHING PROFILE

## Subjects

I have taught the following subjects:

- Entomology (Insect biology, anatomy, morphology and taxonomy)
- Invertebrates (Taxonomy, biology and biodiversity)
- Soil biology (Invertebrates soil fauna)
- General Zoology
- Parasitology
- Animal Ecology

I lectured and taught several postgraduate laboratory classes in TM5518 Medical Entomology as a casual lecturer for James Cook University in 2003 and 2004. I was guest lecturer of Parasitology at Technical Health Institute at Aswan Province, Egypt in the academic year 2006-2007.

I also taught one course for one postgraduate student in the academic years 2007 (Invertebrates Soil Biology) and 2008 (Invertebrates Morphology).

## Curriculum development

- I have developed hand out of practical invertebrates for science students (2010).
- I have developed a couple of E-courses (Invertebrates Biology and Diversity for second year biological students and Entomology for second year environmental studies students, ZOO 201 and ZOO 211). Development of other courses is in progress.
- I coordinated and implemented in updating the undergraduate course Soil Biology (Aswan Faculty of Science, South Valley University, Egypt 2005).
- I had implemented in updating the postgraduate course Medical Entomology (Master degree, School of Public Health and Tropical Medicine, James Cook University, Australia 200-2004).

# RESEARCH PROFILE

## Summary of research interests

Since my appointment, I have developed a number of distinct lines of research which have all demonstrated a sound degree of originality, creativity and innovation.

- Biological and integrated control medicinally important pests
- Surveying, identifying and classifying medicinally important pests
- Product development research for natural insecticide alternatives and repellents
- Forensic entomology is a relatively new research interest

## Research collaborations

Since I began my career, I have sought to develop collaborative arrangements with an inclusive view. These have included the following activities:

- 2006-Present: Post-doctoral research with Prof Mordue at Aberdeen University, UK on behavioural responses of mosquitoes against human derived repellents.
- 2006-Present: Post-doctoral research with Prof Isman at University of British Columbia, Canada on phytochemicals and their capacity as mosquitocidal alternatives.
- 2003-Present: Ongoing research collaboration with Dr Deon Canyon, School of Public Health and Topical Medicine, James Cook University. We have researched the viability and efficacy of several botanical and zoological candidates for natural insecticide alternatives and biological control.
- 2003-2004: Research consultancy with Dr Lyndon Llewellyn, Director of Biodiscovery Group at the Australian Institute of Marine Science to bioassay and screen mangrove plant extracts for mosquitocidal activity.
- 2002-2004: Research consultancy with Dr Michael Kennedy, Forestry Research Leader, CSIRO in Brisbane to assess bioactivity of one promising novel phytochemical compound with mosquitocidal properties.
- 2002-2004: Collaborated and published with Prof Bruce Bowden, School of Pharmacy and Molecular Biology, JCU during the extraction and evaluation of potential phytochemicals.
- 1996-2000: Conducted a research project involving surveillance and mosquito control with insecticide alternatives in Aswan Province, Egypt for the CARE organization.

## Recognition through grants, scholarships, fellowships etc

- 2008 (March to June): Fellowship for studying “phytochemicals as natural mosquitocides alternatives”, University of British Columbia, Canada.
- 2007 (March to September): Fellowship for studying “Behavioural responses of mosquitoes against human derived repellents”, University of Aberdeen, U.K.
- 2004: Evaluating larvicidal activity of some mangrove plants, Australian Institute of Marine Science (AIMS), Australia. Co-investigator (5000 Aus. Dollar).
- 2002-2004: Scholarship for conducting Ph. D. research, School of Public Health and Tropical Medicine, James Cook University, Australia. Funded by James Cook University and Egyptian Government.

## **Professional consultancies**

- 2004: Evaluating larvicidal activity of some mangrove plants, Australian Institute of Marine Science (AIMS), Australia.
- 1996-1999: Surveillance and mosquito control with insecticide alternatives, CARE organization, Egypt.

## **Supervision & management of research students**

- 2008-2009: BSc research student (Larvicidal activity of some volatile oils against *Aedes caspius*)
- 2007– Present: Master student (Studies on the influence of the High Dam on the quantity and quality of aquatic Arthropods (Crustacean Zooplankton and insects) in Aswan Province, Egypt).
- 2007-2008: BSc research student (Evaluating oviposition deterrent activity of some volatile oils against the filarial vector *Culex pipiens*).
- 2006-2007: BSc research student (Aquatic invertebrates' biodiversity in Aswan city, Egypt).
- Over the past few years, I have provided casual online supervisory assistance to 2 Ph D students one from India and one from Pakistan.

## PUBLICATION PROFILE

My journal papers have appeared in both peer-reviewed and local journals. My publication profile is classified to:

### Peer-Reviewed Journal Articles

1. Shaalan, E. A., Ahmed, A. M., Al-Khedhairi, A. A. and Aboul-Soud, M. A. M. (2011): Monitoring of mosquito vectors in Al-Ahsaa district, eastern region, Kingdom of Saudi Arabia. *Journal of Insect Science* (Submitted).
2. Youssif, R. S. and Shaalan E. A. (2011): Mosquitocidal activity of some volatile oils against *Aedes cspius* mosquitoes. *Journal of Vector Borne Diseases*. (Submitted).
3. Hafeez F., Akram W. and Shaalan E. A. (2011): Mosquito larvicidal activity of citrus limonoids against *Aedes albopictus*. *Parasitology Research* (In press).
4. Shaalan, E. A., and Canyon, D. V. (2010). A bibliography of recent references from 1987 to 2009 that relate to mosquitocidal activity caused by phytochemicals of seed and nut origin. Perth: West Wind Publications.
5. Shaalan E. and Canyon D. (2009): Aquatic insect predators and mosquito control. *Tropical biomedicine*. 26(3): 223-261.
6. Shaalan E. A. and Canyon D. V. (2008): Inconsequential study on larvicidal efficacy of anise and celery seed extracts indicates that standards in bioinsecticide screening are necessary. *Current Bioactive Compounds*. 4 (1): 33-35.
7. Shaalan E., Canyon D., Muller R., Yones, M. W. F., Abdel-Wahab H. and Mansour A. (2007): A mosquito predator survey in Townsville, Australia, and an assessment of *Diplonychus sp.* and *Anisops sp.* predatorial capacity against *Culex annulirostris* mosquito immatures. *Journal of Vector Ecology*. 32 (1): 16-21.
8. Shaalan E. A., Canyon D. V., Bowden B., Yones M. W. F., Abdel-Wahab H. and Mansour A. (2006): Efficacy of botanical extracts from *Callitris glaucophylla*, against *Aedes aegypti* and *Culex annulirostris* mosquitoes. *Tropical Biomedicine*. 23 (2): 180-185.
9. Shaalan E. A., Canyon D. V., Yones M. W. F., Abdel-Wahab H. and Mansour A. (2006): Efficacy of eight larvicidal botanical extracts from *Khaya senegalensis* and *Daucus carota* against *Culex annulirostris* (Diptera: Culicidae). *Journal of the American Mosquito Control Association*. 22 (3): 433-436.
10. Shaalan E. A., Canyon D. V., Yones M. W. F., Abdel-Wahab H. and Mansour A. (2005): Synergistic efficacy of botanical blends with and without synthetic insecticides against *Aedes aegypti* and *Culex annulirostris* mosquitoes. *Journal of Vector Ecology*. 30 (2): 284-288.
11. Shaalan E. A., Canyon D. V., Yones M. W. F., Abdel-Wahab H. and Mansour A. (2005): Effects of sub lethal concentrations of synthetic insecticides and *Callitris glaucophylla* extracts on the development of *Aedes aegypti*. *Journal of Vector Ecology*. 30 (2): 295-298.
12. Shaalan E. A., Canyon D. V., Yones M. W. F., Abdel-Wahab H. and Mansour A. (2005): A review of botanical phytochemicals with mosquitocidal potential. *Environment International* 31: 1149-1166.



## Local Journals

13. Abdel-Aaal A. A., Hamad N. F., Okasha, S. A. and Shaalan E. A. A. (1998): Studies on the biological control and ecology of mosquitoes in Aswan Governorate. 1- Evaluation of *Bacillus sphaericus* strain ABG 6232 as biological larvicide. Assiut Veterinary Medical Journal. 39(77): 1-16.
14. Abdel-Aaal A. A., Hamad N. F., Okasha S. A. and Shaalan E. A. A. (1998): Studies on the biological control and ecology of mosquitoes in Aswan Governorate. 2- Ecological studies of mosquito larvae. Assiut Veterinary Medical Journal. 39(77): 17-35.

## Theses

15. Shaalan E. A. (2005): Integrated control of two mosquito species *Aedes aegypti* and *Culex annulirostris*. Ph.D. Thesis. Aswan Faculty of Science, South Valley University, Egypt.
16. Shaalan E. A. (1997): Studies on the biological control and ecology of mosquitoes in Aswan Governorate. M. Sc. Thesis. Aswan Faculty of Science, South Valley University, Egypt.

## Book Chapters

17. Shaalan E and Canyon DV (2011): Seeds, nuts and vector-borne diseases. In: Preedy V. R., Watson R. R. And Patel V. P. (2011): Nuts and Seeds in Health and Disease Prevention. Academic press (in press).
18. Canyon DV, Heukelbach J, Shaalan E and Speare R (2010): Piperonyl butoxide. In: Kucer The Use of Antibiotics, 6<sup>th</sup> edition, Hodder & Stoughton Limited, London.
19. Heukelbach J, Canyon DV, Shaalan E and Speare R (2010): Crothamiton. In: Kucer The Use of Antibiotics, 6<sup>th</sup> edition, Hodder & Stoughton Limited, London.
20. Heukelbach J, Speare R, Shaalan E and Canyon DV (2010): Lindane. In: Kucer The Use of Antibiotics, 6<sup>th</sup> edition, Hodder & Stoughton Limited, London.
21. Shaalan E, Canyon DV, Heukelbach J and Speare R (2010): Malathion. In: Kucer The Use of Antibiotics, 6<sup>th</sup> edition, Hodder & Stoughton Limited, London.
22. Speare R, Canyon DV, Heukelbach J and Shaalan E (2010): Permethrin. In: Kucer The Use of Antibiotics, 6<sup>th</sup> edition, Hodder & Stoughton Limited, London.

## Conference Abstracts and Workshops Presentations

23. Shaalan E. A. (2009): Larvicidal activity of some volatile oils against the dengue vector *Aedes aegypti*. The 45<sup>th</sup> annual scientific seminar of Malaysian Society of Parasitology and Tropical Medicine, 18-19 March. Grand Seasons Hotel, Kuala Lumpur, Malaysia.
24. Shaalan E. A. (2007): Capacity of predaceous aquatic insects as mosquitocide alternatives. First conference on applications of environmental sciences in the Arab region, 27 - 29 November. Aswan Faculty of Science, South Valley University, Aswan, Egypt.
25. Shaalan E. A. (2007): Mosquitoes and its effects on development in Lake Nasser. 2<sup>nd</sup> workshop on Lake Nasser development, 7<sup>th</sup> November. Geology Department, Aswan Faculty of Science, South Valley University, Aswan, Egypt.
26. Shaalan E. A. (2007): Aquatic invertebrates as bioindicators for water quality in Lake Nasser. 2<sup>nd</sup> workshop on Lake Nasser development, 7<sup>th</sup> November. Geology Department, Aswan Faculty of Science, South Valley University, Aswan, Egypt.
27. Younes M. W. F., Abdel-Wahab H. M., Abdel-Hamid A. M., Shaalan E. A. and Canyon D. V. (2005): Effects of sublethal concentrations of synthetic insecticides and *Callitris glauocophylla*

extract on some biological aspects of *Aedes aegypti*. The 3<sup>rd</sup> conference of applied entomology, 23-24 March. Entomology Department, Faculty of Science, Cairo University, Egypt.

28. Younes M. W. F., Abdel-Wahab H. M., Abdel-Hamid A. M., Shaalan E. A. and Canyon D. V. (2005): Integrated control of *Aedes aegypti* and *Culex annulirostris* mosquitoes. The 3<sup>rd</sup> conference of applied entomology, 23-24 March. Entomology Department, Faculty of Science, Cairo University, Egypt.
29. Shaalan E., Canyon D., Faried M. W., Abdel-Wahab H., Mansour A. (2004): Integrated control of mosquito vectors of dengue and Japanese encephalitis using phytochemicals and synthetic insecticides, pp. 12. In: Research Showcase Book of Abstracts, School of Public Health and Tropical Medicine. <http://www.jcu.edu.au.elibrary.jcu.edu.au/school/sphtm/antonbreinl/centers/Schowcase 2004. pdf>.
30. Shaalan E., Canyon D. V., Faried M. W., Abdel-Wahab H. and Mansour A. (2003): Efficacy of a highly active phytochemical (*Callitris glaucophylla*) against mosquito vectors of dengue and Japanese encephalitis. The Annual Queensland Health and Medical Scientific Meeting, "Making It Better: Encouraging health research and innovation" 25-26 November, Brisbane.

## REFEREES

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