CURRICULUM VITAE



Personal Data

Marwan Keshlaf

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Tele:01766 5212067
Born in Tripoli (Libya)

Qualifications:

2004-2009	Doctor of Philosophy (Biology). University of Western Sydney (UWS), Australia.
2004	Diploma of English Language for Academic Purposes. Sydney West International College (SWIC), Australia.
2000-2002	Master of Science. University of Tripoli (UOT), Libya
1990-1995	Bachelor of Agricultural Science. University of Tripoli, Libya

Professional experience

2009-2023	Lecturer - University of Tripoli, Libya
2013	Fulbright “visiting scholar ex-change program” Urbana, IL, USA
2008-2009	Research Assistant - University of Western Sydney, Australia.
2007	Laboratory Assistant - University of Western Sydney, Australia.
2002-2003	Lecturer - University of Tripoli, Tripoli, Libya
1999-2001	Teaching Assistant, University of Tripoli (UOT), Tripoli, Libya

Skills

- Collecting and test data, writing and publishing scientific papers, writing reports in English and Arabic.
- Teaching Entomology, Insect physiology and Apicultural courses.
- Extensive experience in scientific laboratory and filed research work, statistical analysis, pesticide bio-assay investigation.
- Conducting studies on honeybee pollination efficacy, honey production, development of colonies, varroa control, and termite control.
- Identify insect infections and plant diseases and prepare, implement and evaluate laboratory and greenhouse experiments.
- Testing of new active ingredients including essential oils to ensure their suitability for use against harmful insects and mites.
- Utilize a high level of computer literacy including Word, Excel, PowerPoint and image analysis.

Spoken language

Arabic (mother language)
Englisch (fluently)
Deutsch (B1)

Bonn, 21. May 2024
Marwan Keshalf

CURRICULUM VITAE

MARWAN MOHAMED KESHLAF

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EXPERIENCE AND SKILL SUMMARY

Extensive experience in scientific laboratory and filed research work, analysis, pesticide bio-assay investigation, conducting studies on honeybee pollination efficacy, honey production, development of colonies, varroa control, collecting and test data, writing and publishing scientific papers, writing reports in Arabic and English, Management and administration, purchasing, supply and distribution, recruitment and training.

QUALIFICATIONS:

- **Bachelor of Science** **1995**

Tripoli University, Libya – Department of Plant Protection, Faculty of Agriculture
Subjects: General agricultural studies and specialized studies in plant protection.

- **Master of Science** **2002**

Tripoli University, Libya – Department of Plant Protection, Faculty of Agriculture
Thesis: Efficacy of Thyme *Thymus capitatus* L. as a Melliferous Plant.

- **Diploma of English Language for Academic Purposes** **2004**

Sydney West International College (SWIC), Sydney, Australia.

- **Doctor of Philosophy** **2009**

University of Western Sydney (UWS), Sydney, Australia – Center for Plant and Food Science, College of Health and Science.
Dissertation: An Assessment of Honeybee Foraging Behavior and Pollination Efficacy in Australian Bt Cotton.

- **Assistant Professor** **2014**
- **Associated Professor** **2019**

EXPERIENCE

- **Lecturer** – University of Tripoli, Libya **2009-2022**
- Teaching courses (Apiculture, General Entomology, Insect Physiology)
- Coordinator of the study and exams (undergraduate students of Plant protection dep.)
- Supervisor of graduate projects (especial problem in entomology area, mainly with bees)
- **Research Assistant** – University of Western Sydney, Australia. **2008–09**

Skill utilized: high level of accuracy in obtaining consistent results. Intensive efficacy assessment of honey production, bee flight activity and pollen gathering activity. Determine the infestation by small hive beetle. Using image analyzing techniques to determine areas measured. Carrying out several field experiments.

- **Laboratory Assistant** – University of Western Sydney. Australia. **2007**

Skill utilized: rearing different insects species in captivity under laboratory condition.

- **Demonstration** activity during practical class, University of Western Sydney. **2006**
- **Post Graduate Student** – University of Western Sydney, Australia. **2004-08**

Successfully obtained Ph.D. degree, developed high levels of training in scientific research work, investigating the role of honeybee and pollen beetles in cotton pollination under Australian conditions, assess the toxicity of pesticides on honeybees, exploring the possibility of improving bee pollination efficacy using QMP as attractant.

- **Post Doc. researcher** – University of Western Sydney, Australia. **2008-09**
Skill utilized: investigating the efficacy of mesh bottom board against varroa mites in honeybee colonies, and Termite control with botanical extracts. Utilizing high level in computer literacy including Word, Excel, PowerPoint, and Image Analysis.
- **Owner/manager of commercial apiary –** Tripoli, Libya **1999-2023**
Skill utilized: management of honeybee colonies including honey production, rearing queens, controlling bee diseases, management functions relating to operation of retail outlet, customer service, purchasing, recruitment, supervision and training staff.

PUBLICATIONS

1) **Keshlaf M., Mitsho F., Spooner-Hart R**. 2026. Pollen Preferences of Honey Bees: How do Floral and Pollen Characteristics Influence Foraging Strategies? *Open Vet Journal*, 16 (3): 1965-1703.
2) **Keshlaf M.** 2026. Assessing Honeybee-Mediated Pollen Dispersal and Buffer Zone Effectiveness in Bt Cotton: Implications for Gene Flow Management in Eastern Australia. *The Libyan Journal of Agriculture*, under press.
3) **Keshlaf M., Atia Z., Wienzierl R**. 2026. Reduced-Risk Insecticide Programs for Managing Direct Pests in Apple Orchards: Efficacy and Limitations. *Open Vet Journal*, 16 (3): 1954-1660.
4) **Keshlaf M., Spooner-Hart R., Mirwan H**. 2025. Role of pollen beetles (*Carpophilus aterrimus*: Nitidulidae) in cotton pollination and their interaction with honeybees (*Apis mellifera*: Apidae). *Open Vet Journal*, 15 (10): 5069-5077.
5) **Lamah M., Keshlaf M., Shaibi A., Mirwan H.** 2025. Comparison of honeybee queen's quality from Kufra and Tripoli based on colony performance. *The Libyan Journal of Agriculture*, 30 (1): 35-46.
6) **Alsaadi M., Keshlaf M., Mirwan H.** 2024. Some essential oils as potential control agents for varroa mite (*Varroa destructor*) in infected honey bees (*Apis mellifera*). *Open Vet Journal*, 14 (2): 692-698.
7) **Keshlaf M., Mirwan H., M. Lamah, A. Shaibi.** 2024. The impact of geographic isolation on the Kufra honey bee (*Apis mellifera*). *University Journal of Humanities and Applied Sciences*, 9 (3): 591-602.
8) **Keshlaf M., Mirwan H., Alsaadi M.** 2024. The use of essential oils to control varroa mite, *Varroa destructor* in honeybee colonies. *ALnama Journal*, 5(2):191-200
9) **Keshlaf M., Mirwan H., Ghana S., Mubrok S., Shaibi T.** 2003. Prevalence of Varroa mites (*Varroa destructor* Anderson & Trueman) and bee lice (*Bruala coece* Nitzsch) in honey bee (*Apis mellifera* L.) colonies in Libya. *Open Vet Journal*, 13 (7): 834-838.
10) **Keshlaf M., Alfallah. H**. 2019. Efficacy of Modified Bottom Boards to Control Varroa Mite (*Varroa destructor* Anderson & Trueman) in Honeybee Colonies. *International Journal of Science and Research*, 8 (1): 465-469.
11) **Keshlaf M., Fallah H**. 2019. Behavioral Resistance of Libyan honeybee against varroa mite: Preliminary study. *International Journal of Science and Research*, 8 (7): 138-141.
12) **Keshlaf M., Merwin, H., Fallah H**. 2019. Population dynamics of varroa mite: and bee louse in honeybee colony. *International Journal of Science and Research*, 8 (8): 1071-1075.
13) **Keshlaf M**. 2017. The past and present status of Beekeeping in Libya. *Journal of Apicultural Research*, 56(3): 190-195
14) **Keshlaf M**. 2014. Beekeeping in Libya. *International Journal of Agricultural, Biosystems Science and Engineering*, 8 (1): 1005-1008.
15) **Keshlaf M., Spooner-Hart R**. 2014. Effect of modified bottom boards on the performance of honeybee colonies. *International Journal of Agricultural, Biosystems Science and Engineering*, 8 (1): 25-28.
16) **Weinzierl R., Keshlaf M**. 2014. Evaluation of Attribute II Bt Sweet corn resistance and risk-reduced insecticide applications for control of corn earworm. *International Journal of*

Agricultural, Biosystems Science and Engineering, 8 (1): 1002-1004.
17) **Keshlaf M., Basta A., Spooner-Hart R**. 2014. Assessment of toxicity of fipronil and its residues to honeybee workers. *Mellifera*, 13 (26): 30-38.
18) **Keshlaf M., Mensah R., Nicetic O., Spooner-Hart R.** 2014. Effect of synthetic queen mandibular pheromone sprays on pollination of cotton by honeybees. *Mellifera*,13 (26): 21-29.
19) **Adam F., Keshlaf M., Alaghel A., Algeblawi A., Benamer F.** 2014. The study of microbial effect of different concentrations of Alhanoon honey on some species of Bacteria. *Libyan Journal of Plant Protection*, 4: 56-67.
20) **Keshlaf M., Spooner-Hart R**. 2013. Evaluation of Anti-varroa bottom boards for control of small hive beetles *Aethina tumida*. *International Journal of Agricultural, Biosystems Science and Engineering*, 7 (12): 714-716.
21) **Keshlaf, M.A**. 2009. An Assessment of honeybee foraging activity and pollination in Australian Bt cotton. Ph.D. Thesis, Univ. Western Sydney, Australia.
22) **Keshlaf, M.A**. 2002. Importance of Thyme, *Thymus capitatus*, as a *melliferous* plant .Master's thesis. University of Tripoli, Libya.

PARTICIPATION IN CONFERENCES AND OTHER ACTIVITIES:

1. **HiveMeet** - "Varroa – in Queensland now!". Participated in a professional online seminar Organized by Victorian Apiarists' Association Inc., discussing the current spread of the Varroa mite in Queensland, Australia. **Date**: 5 June 2025 | **Format:** Online via ZOOM.
2. **Honey Bee Watch Webinar – "Africa: Land of Bees & Opportunities"** Participated in a special working webinar organized by Honey Bee Watch, focused on supporting local efforts to study and conserve free-living honey bee colonies across Africa. Featured expert presentations and group discussions on conservation challenges and opportunities. **Date:** 29 May 2025 | **Format:** Online via ZOOM
3. **Coloss BEEScholars Webinar: "**Beekeeping Across the Continents: A World Bee Day Special" Participated in an international webinar organized by BEEScholars – Coloss, on the celebration of World Bee Day. **Date**: 20 May 2025 | **Format:** Online via ZOOM.
4. **Weinzierl R., Estes R., Tinsley N., Keshlaf M**. 2014. Evaluation of Attribute II Bt Sweet corn resistance and risk-reduced insecticide applications for control of corn earworm. **In: *Proceedings of the International Agricultural and food Science*, Dubai, Emirates, 30-31 January 2014.**
5. **Keshlaf M., Spooner-Hart R**. Evaluation of Anti-varroa bottom boards for control of small hive beetles *Aethina tumida*. **In: *Proceedings of the International Agricultural Science and Engineering*, Istanbul, Turkey, 5-6 December 2013.**
6. **Keshlaf M., Spooner-Hart R., Mensah R**. Honeybee foraging activity and pollination efficacy in Australian Bt cotton. **In: *Proceedings of the XXIIII International Congress of Entomology*, Deagu, South Korea, 19-25 Aug 2012.**
7. **Keshlaf M., Spooner-Hart R., Mensah R**. Role of pollen beetles on cotton pollination, and their effect on the foraging behavior of honeybees. **In: *Proceedings of the XXIII International Congress of Entomology*, Durban, South Africa 6-12 July, 2008.**
8. **Keshlaf M., Spooner-Hart R., Mensah R**. Optimizing cotton pollination period by using high stocking rate of honeybee colonies. **In: *Proceedings of the XXIII International Congress of Entomology*, Durban, South Africa 6-12 July, 2008.**
9. **Keshlaf M., Basta A., Spooner-Hart R**. Assessment of toxicity of fipronil and its residues to honeybee workers. **Presentation**: **In 16th Annual Crop Pollination Conference,** 18/07/2008, Dubbo, NWS, Australia.
10. **Keshlaf M.** Effects of restricting pollen entry, and feeding pollen supplements to honeybee colonies

used for cotton pollination. **Presentation**: **In 95th Annual Conference of New South Wales Apiarist's**, Nelson Bay, NSW, Australia, 13-14/05/2008.

11. **Keshlaf M.** Effect of synthetic queen mandibular pheromone sprays on pollination of cotton by honeybees. **Presentation**: **In 15th Annual Crop Pollination Conference,** 12/8/2007, Maryborough, Victoria, Australia.
12. **Keshlaf M.** Evaluation of honeybee activity, pollination effectiveness and influence on yield parameters in Bt cotton under Australian conditions. **Presentation**: **In Australian Cotton Research Institute (ACRI), Narrabri, N.S.W., Australia**, 11/04/2006.

Membership

- Victorian Apiarists' Association Inc.
- Honeybee Colony Loss organization (COLOSS) 2009 – present
- Libyan Association of Agricultural Science Expertise (LAASE) 2012- present
- Libyan Beekeeping Association – 2017 - present

Awards

- **Fulbright** "visiting scholar ex-change program" Urbana, IL, USA (Jun- Sep 2013).

Social Activates

- Workshop "Beekeeping operations during winter and early spring", Cultural Centre, Tajora, Libya, **08-10 December 2018.**
- Training course "Principles of Beekeeping", Libyan Ministry of Agriculture, Tripoli, Libya, **13-25 April 2013.**
- Workshop "Beekeeping in Libya, present and future", Agricultural Research Centre, Tripoli, Libya, **April 2013.**
- Organizing and Demonstrator of "the 1st Beekeeping Training Course for Beginners", **14-26 March 2012**. Libyan Beekeepers Association, Tripoli, Libya.
- Honor visitor of workshop (Beekeeping Problems in Libya), El-geran Agricultural Institute, Tripoli, **1st May 2012**
- Entomologist of a scientific team working on Wilt and death of Pine trees syndrome in Libyan Forest, sponsored by Libyan Ministry of Agriculture, Libya **June 2012 to 2013.**
- "Cotton pollination by honeybees". **In: Radio interview with ABC Western Plains channel** (available at http://abc.net.au/westernplains/s1112269.htm). 08/08/2007.