

PERSONAL INFORMATION

Babar Hassan

Insect Toxicology Laboratory, Department of Entomology, University of Agriculture Faisalabad, Pakistan

+92 3377105236

sialuaf@gmail.com

Sex Male | Date of birth 02-02-1989 | Nationality Pakistani

PERSONAL STATEMENT

During my education carrier I successfully combined my studies with work and other commitments showing myself to be self-motivated, organized and capable of working under pressure. I have a clear, logical mind with a practical approach to problem solving and a drive to see things through to completion. I enjoy working on my own initiative or in a team. In short, I am reliable, trustworthy, hardworking and eager to learn and have a genuine interest in Entomology. I have a very good experience of field trials and laboratory experiments related to insects

WORK EXPERIENCE

(July 2017- Present)

Assistant Research Officer (ARO) Plant Protection

Department of Agriculture, Government of Punjab. Adaptive Research Farm Risala # 5 Sargodha, Pakistan. <http://ext.agripunjab.gov.pk>.

- Conduction of research trials on farm regarding insect pests of agricultural crops and orchards
- Conduction of research trails on farmer field for the management of insect pests and diseases
- Collection of data, analysis and report writing
- Fortnightly training of agricultural officers and assistant directors regarding current issues related to insect pests, crop management and diseases

Business or sector Agriculture Research and Extension

(May 2016- August 2016)

Assistant Research Officer (ARO) Entomology

Department of Agriculture Research, Government of Punjab. Entomological Research Institute, Ayub Agricultural research Institute (AARI) Faisalabad, Pakistan. <http://aari.punjab.gov.pk/>

- Visits of fruit markets and field survey to determine the infestation of fruit fly
- Field trials related to efficacy of granular insecticides against Sugarcane borers
- Collection of data, analysis and report writing
- Rearing of fruit fly on natural diet

Business or sector Agriculture Research

(January 2015- October 2015)

Visiting Research Scholar

USDA –FS. Forest Product Laboratory (FPL), 1 Gifford Pinchot Dr. Madison, WI 53726, USA. +1 608-231-9200; <https://www.fpl.fs.fed.us/>

- Laboratory test on termites decay fungi according to AWPA E-1, E-10 and E-11
- Field trials on termite according to AWPA E-7 and E-26
- Vacuum-pressure application of wood
- some studies on termite biology
- Funded by HEC (Pakistan) and USDA international program

Business or sector Research

(October 2015- March 2016)

Teaching Assistant

Department of Entomology, University of Agriculture Faisalabad Pakistan. <http://www.uaf.edu.pk/>

- Assistance to Supervisor/Professor in teaching practical / theory of various undergraduate courses
- Assistance to Supervisor in evaluation of grade examination, assignments and papers
- Assistance to faculty members with laboratory of field research
- Development of teaching material/online course material and visual aids
- Collect and return assignments to the students in accordance with the notified deadlines

Business or sector Education

(October 2014- January 2015)

Teaching AssistantDepartment of Entomology, University of Agriculture Faisalabad Pakistan. <http://www.uaf.edu.pk/>

- Assistance to Supervisor/Professor in teaching practical / theory of various undergraduate courses
- Assistance to Supervisor in evaluation of grade examination, assignments and papers
- Assistance to faculty members with laboratory of field research
- Development of teaching material/online course material and visual aids
- Collect and return assignments to the students in accordance with the notified deadlines

Business or sector Education and Research

(August 2011- April 2012)

Research AssociateDepartment of Entomology, University of Agriculture Faisalabad Pakistan. <http://www.uaf.edu.pk/>

- Weekly field surveys of citrus groves of three districts of Punjab (Sargodha, Toba Tek Singh and Faisalabad) to determine population incidence and abundance of Citrus leaf Miner (CLM)
- Field trials related to efficacy/comparative efficiency of different insecticides on different varieties of Citrus against Citrus leaf miner.
- Data collection and its statistical analysis
- Monthly report writing

Business or sector Research and Education

(March 2010- June 2010)

Intern

Department of Agriculture, Pest warning and quality control of pesticides Jhang, Pakistan.

<http://www.pestwarning.agripunjab.gov.pk/>

- Field trials related to efficacy/comparative efficiency of different insecticides on sugarcane crop
- Light trap data and insect collection from field
- Pesticides dealers training in safe handling and effective use of pesticides
- Pesticide sampling from the stores/ warehouses/ shops of vendor, dealers to ensure quality

Business or sector Agriculture research

EDUCATION AND TRAINING

(October 2012- June 2017)

Ph.D. Entomology

6.67/4.00

University of Agriculture Faisalabad, Pakistan. <http://www.uaf.edu.pk/>

- ✓ Insect Molecular Biology
- ✓ Biological Control of Insect Pests
- ✓ Insect Pathology
- ✓ Design and Analysis of Experiments for Researchers
- ✓ Environmental Biochemistry
- ✓ Insecticides and Public health

Thesis :

Studies on The Effect of Wood Extractives In Combination With Plant Oil on Subterranean Termites

(October 2010- August 2012)

M.Sc. (Hons) Entomology

4.00/4.00

University of Agriculture Faisalabad, Pakistan. <http://www.uaf.edu.pk/>

- ✓ Insecticide Resistance and its Management
- ✓ Insect Toxicology
- ✓ Insect Biochemistry
- ✓ Advances in Pest Management Research
- ✓ Research Methods in Entomology
- ✓ Biotechnology for parasite Control
- ✓ Experimental Statistics
- ✓ Introduction to Biochemistry
- ✓ Insects in relation to plant diseases

Thesis: Efficacy of castor bean oil against subterranean termites on *Acacia nilotica* wood

3.87/4.00

(October 2006- June 2010)

B.Sc. (Hons) in Agriculture (Major: Entomology)University of Agriculture Faisalabad, Pakistan. <http://www.uaf.edu.pk/>

- ✓ Insect Taxonomy, Insect Ecology, Insect Physiology, Forest Entomology, Biological Control
- ✓ Scientific Writing, Insecticides and their Classification
- ✓ Various courses of followings subjects
- ✓ Agronomy, Soil Science, Plant Breeding and Genetics
- ✓ Plant Pathology, Forestry and Computer Science
- ✓ Animal breeding and Genetics, Agriculture Extension, Botany and Wildlife Management

(September 2004- August 2006)

Intermediate (Pre-medical)

779/1100

Government College Jhang, Pakistan.

- ✓ Biology
- ✓ Physics
- ✓ Chemistry
- ✓ Various minor courses

(October 2010- June 2017)

Matriculation (Science)

680/850

Ghazali Pilot Secondary School Yousef Shah Road Jhang, Pakistan.

- ✓ Biology
- ✓ Physics
- ✓ Chemistry
- ✓ Various minor courses

PERSONAL SKILLS

Mother tongue(s) Punjabi

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C2	C1	C2	C2
Urdu	C2	C2	C2	C2	C2

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2

Communication skills

- Good communication skills gained during my Visit as Research scholar in USA
- Confident, articulate, and professional speaking abilities
- Excellent presentation and negotiation skills
- Good organizational and leadership skills gained as I monitor my juniors in the laboratory for six years

Statistical and other software	I have good command on the following statistical software for the analysis and interpretation of data ▪ Minitab ▪ SPSS ▪ Statistica ▪ Statistix ▪ Stat Plus ▪ Statgraphics ▪ Graph pad Prism ▪ Omega 6
Digital Competence	▪ Windows- 7, 8 and 10; Window- XP ▪ MS- word, MS- Excel, MS- Power point, Prezi ▪ Installations and use of Endnote, Medley and Zotero ▪ Basic Bio-informatics tools (Blasting on NCBI and Phylogenetic analysis)
Driving licence	DL class-R (Mississippi, USA)
ADDITIONAL INFORMATION	
Seminars/Presentations	✓ "Management of Subterranean Termites with Organic Compounds" presented in Department of Entomology, University of Agriculture Faisalabad, Pakistan ✓ "Diffusion and Adoption of Farm Technologies among Resource Limited Farmers" Presented in Department of Entomology, University of Agriculture Faisalabad, Pakistan ✓ "Studies on Wood Extractives in Combination With Plant Oils Against Subterranean Termites" presented in seminar room of Forest Product Laboratory, Madison, Wisconsin USA
International Conferences	✓ Presented paper at IRG-WP 47th conference held on May 15-19, 2016 Lisbon, Portugal ✓ Presented paper at VII International Scientific Agriculture Symposium "Agrosym 2016" Jahorina, 6-9 October 2016, Bosnia and Herzegovina ✓ Presented paper at Pakistan congress of Zoology (international) on February 28 – March 2, 2017 ✓ Presented paper at American Wood protection association (AWPA) annual meeting on April 9-11, 2017 in Las Vegas, Nevada, USA
Honours and awards	✓ Got Silver medal on standing First position in MSc (Hons) in Department of Entomology UAF (2012) ✓ University merit Scholarship during MSc (Hons) (2010-2012) ✓ HEC indigenous Scholarship for Ph.D. ✓ Ron Cockcroft Award (RCA) International Research group on wood protection (Sweden) to attend 47th meeting in Lisbon, Portugal. ✓ HEC travel grant for PhD scholars to attend VII agriculture Symposium in Bosnia ✓ Three month funding (\$1500/month) from international program of USDA-FS to complete my research during USA visit ✓ American Wood protection association (AWPA) Student Travel Fellowship Award to attend annual meeting on April 9-11, 2017 in Las Vegas, Nevada, USA
Memberships	✓ International research group on Wood protection (IRG-WP) Sweden. http://www.irg-wp.com. ✓ Forest Product Society (FPS) USA http://www.forestprod.org. ✓ American Wood protection association (AWPA); http://www.awpa.com ✓ Entomological Society of Pakistan
Projects/technical reports	✓ Internship technical report submitted to Department of Pest warning and Quality control of Pesticides and Department of Entomology UAF ✓ "Efficacy of castor bean oil against subterranean termites on <i>Acacia nilotica</i> wood" Submitted to University of Agriculture Faisalabad.

Publications

- i. **Hassan, B.**, S. Ahmed, G. Kirker, M.E. Mankowski and M. Misbah ul Haq. 2018. Antioxidant effects of four heartwood extractives on mid gut enzyme activity in *Heterotermes indicola* (Isoptera: Rhinotermitidae). Environmental Entomology. (Accepted, ID ENVENT-2017-0330).
- ii. **Hassan, B.**, M. E. Mankowski, G. Kirker, C. A. Clausen and S. Ahmed. 2018. Repellent and termiticidal effects of white mulberry (*Morus alba*) heartwood extracts against *Reticulitermes flavipes* (Isoptera: Rhinotermitidae). Journal of Economic Entomology. (Under revision. Revised manuscript has been submitted ECOENT-2017-0640).
- iii. Ahmed, S., **B. Hassan** and M. U. Farooq. 2018. Effect of biofertilizers and diatomaceous earth on life and movement of subterranean termites under laboratory conditions. International Journal of Tropical Insect Science. (Accepted, at copy editing stage).
- iv. **Hassan B.**, M. Saleem, M.A. Nadeem, I. Hassan, M. A. Muneer and M.R. Rashid. 2018. Efficacy of pesticide seed treatments against wheat aphid and its effect on coccinellid predator and crop yield. J. Entomol. Zool. Stud. 6(1):189-193.
- v. **Hassan, B.**, M. Mankowski, G. Kirker, S. Ahmed. 2017. Effects of heartwood extractives on symbiotic protozoan communities and mortality in two termite species. International Biodeterioration & Biodegradation, 123: 27-36.
- vi. Ahmed, S., **B. Hassan**, M. Yaqoob, M. Nisar and A. Rashid, 2017. Efficacy of chlorpyrifos and fipronil in relation to soil depths against subterranean termites. Journal of Entomological and Acarological Research. 49(1): 6386.
- vii. Ahmed, S., **B. Hassan**, M. Arshad. 2017. Comparative Efficacy of Synthetic Resins on Various Woods against Subterranean Termites. Pakistan Journal of Zoology. 49(4):1337-1341.
- viii. **Hassan, B.**, G. Kirker, M. Mankowski, S. Ahmed. 2017. Comparison of performance of wood extractives as preservatives in field tests against termites and decay in USA and Pakistan. AWWPA Proceedings. Volume 113.
- ix. Abbas, M., **B. Hassan**, S. Ahmed and M.S. Nisar. 2016. Termicide activity of seed extract/oils from *Schinus molle* Linn against subterranean termites under laboratory conditions. International Journal of Biology and Biotechnology. 13 (4):633-636.
- x. **Hassan, B.**, S. Ahmed, M. Misbah-ul- haq, M. E. Mankowski and N. Mehmood. 2016. Antitermitic activities of *Pinus roxburghii* wood extractives against *Heterotermes indicola* (Wasmann) (Isoptera: Rhinotermitidae). VII Agriculture symposium, Bosnia.
- xi. **Hassan, B.**, M. Mankowski, G. Kirker, S. Ahmed and M. Misbah ul Haq. 2016. Antitermitic activities of Shisham (*Dalbergia sissoo Roxb.*) heartwood extractives against two termite species. International Research Group on Wood Protection. IRG/WP 16-10856.
- xii. Mankowski, M. E., B. Boyd, B. **Hassan** and G. T. Kirker. 2016. GC-MS characterizations of termiticidal heartwood extractives from wood species utilized in Pakistan. International Research Group on Wood Protection IRG/WP 16-10857.
- xiii. Mankowski, M.E., **B. Hassan**, A. Bishell and G. Kirker. 2016. Laboratory evaluations of woods from Pakistan and their extractives against *Postia placenta* and *Trametes versicolor*. International Research Group on Wood Protection. IRG/WP 16-10860.
- xiv. Ahmed, S., S.K.A. Naqvi, A. A. Sherazi, **B. Hassan**, M.A. Riaz, and M. Z. Majeed. 2016. Hygroscopic properties following drying affects wood consumption by *Odontotermes obesus*. Maderas-Cienc Tecnol. 18(4): 627– 632.
- xv. Ahmed, S., R. Fatima., M.S. Nisar and **B. Hassan**, 2014. Evaluation of castor bean oil on *Acacia nilotica* as wood preservative against *Odontotermes obesus* (Ramb.) (Termitidae: Isoptera). International wood products journal. 5(1): 5-10.
- xvi. Ahmed, S., M.S. Nisar, B. Naseer, **B. Hassan** and M.M. Shakir, 2013. Determination of wood protection by seasoning and clove oil application against *Odontotermes obesus* Ramb. (Termitidae: Isoptera). Pak. Entomol., 35(2): 83-87.
- xvii. Ahmed, S., M.A. Khan, **B. Hassan**, H. Haider and S.F. Ahmad, 2013. Studies on citrus leaf miner (CLM) in relation to abiotic factors on different host plants in Punjab, Pakistan. Pak. Entomol., 35(1): 5-10.

References

Dr. Sohail Ahmed

Professor

Insect Toxicology Laboratory Department of
Entomology, University of Agriculture Faisalabad.
(Punjab) Pakistan Contact: +92-03425155564
E-Mail: saha786_pk@yahoo.com

Dr. Grant Kirker

Research Forest Products
Technologist, Durability and Wood
Protection Research, Forest
Product Laboratory, USA Contact:
608-231-9256 (Mobile)
gkirker@fs.fed.us

Dr. Mark Mankowski

Research Entomologist,

Durability and Wood Protection Research, Forest Product Laboratory, USA.
Contact: 662-338-3124 (Mobile) markemankowski@fs.fed.us