

CURRICULUM VITAE

Umer Ayyaz Aslam Sheikh, PhD Entomology (**Bumblebee and Pollinators**)

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Gender: Male

Date of Birth: 05 December, 1982

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Present Address: Department of Entomology, University of the Poonch, Rawalakot, AJK



Profile:

HEC Approved Supervisor. Currently working as **Assistant Professor (Contract)** at Department of Entomology, The University of Poonch, Member of **IUCN, Bumblebee Group and CLOSS Honey Bee association**. Work in project **Ecology of bumblebee**. Work as research scholar at **Blandy Experimental Farm, University of Virginia, USA**. **Four research projects as Principal Investigator** on Bees Ecology and parasitism in Northern Pakistan. Three project are submitted to international funding agencies and in process

Education and Qualification Degree	University / Board	Specification
PhD Entomology (2016)	PMAS-Arid Agriculture Rawalpindi	Ecological Studies on Bumblebee from Northern
M.Sc. (Hon). Entomology (2009)	PMAS-Arid Agriculture Rawalpindi	Pollinators Ecology
B.Sc. (Hon). Entomology (2007)	PMAS-Arid Agriculture Rawalpindi	Pollinators Ecology

Research Projects as Principal Investigator

No.	Title	Amount (Rs)	Funding agency	Status
1	Eco-conservation of Bumblebees in Himalayan range of Sakardu, Pakistan by using citizen science	0.7 Million (International)	The Rufford Foundation UK.	Complete
2	Ecology and conservation of indigenous bumblebee (<i>Bombus haemorrhoidalis</i> Smith) in Rawalakot, Azad Jammu & Kashmir Pakistan	0.35 Million (International)	MBZ species conservation UAE	Complete
3	Spatial and temporal behavior of indigenous bumblebee (<i>Bombus haemorrhoidalis</i> Smith) .	0.5 Million (National)	HEC, Pakistan	Complete

4.	Habitat and Bio-Conservation of native bees in Marghla and Murree Hills, Pakistan by using Citizen Science.	0.5 Million	HEC Pakistan	Complete
4	Biodiversity and Conservation of Bumblebees in KaraKoram Ranges of Pakistan	2 Million	Biodiversity Exploration and Discovery	Submitted
5	Habitat and Bio-Conservation of native bumblebees (Genus Bombus) in Marghla and Murree Hills, Pakistan by using Citizen Science	0.5 Million	MBZ species conservation UAE	Submitted
6	Awareness program to save naïve Bumblebees of Azad Jammu and Kashmir, Pakistan	0.5 Million	The Pollination Project	Submitted

Awards/Scholarship

- 1) Member of **International Union for Conservation of Nature, Bumblebee Group** for Himalayan Region
- 2) Member of Society for CLOSS honey bee association
- 3) Six month fellowship at **Blandy Experimental Farm, University of Virginia, USA**, funded by International Research Initiative Program (IRSIP) scholarship (**Higher Education Commission**) Government of Pakistan
- 4) Merit Scholarship under HEC 5000 Indigenous Scholarship Program for PhD Studies, (**Higher Education Commission**) Government of Pakistan

Teaching and Research Experience:

Period	Specification
12-04-2017 to Present	Assistant Professor , Department of Entomology, University of Poonch, Rawalakot AJK
09-02-2017 to 08-02-2017	Assistant Professor, (IPFP) Department of Entomology, University of Poonch, Rawalakot AJK
15-01-2015 to 15-07-2015	Worked on North American Bumblebees species and their parasitism in field. at Blandy Experimental Farm University of Virginia, USA
01-02- 2012 to 14-01-2015	Establishing year round laboratory facilities for bumblebee rearing, an important greenhouse pollinator. PMASAAUR
01-11-2010 to 31-10-2011	Exploration of pesticidal effect of different neem products for the management of wheat aphids. PMASAAUR

Conferences/Workshops:

1. 6th International Conference on “Sustainable Agriculture in Changing Climate: Strategies and Management at UPR, June 19-21, 2019
2. 2nd National Conference on Emerging Trends in Bioinformatics and Biosciences at Hazara University Mansehra KP, Pakistan August 9-11, 2018
3. Prospects of Modern Beekeeping in Pakistan at Pir Mehr Ali Shah Arid Agriculture University Rawalpindi. 4th April to 6th April , 2017
4. All Punjab beekeeping training course Ayub Agriculture Research Institute Faisalabad, 10-03-2014 to 19-03-2014
5. Training for Introductory Beekeeping at Pir Mehr Ali Shah Arid Agriculture University Rawalpindi, 2013

Publications:

1. **Umer Ayyaz Aslam Sheikh** and Muhammad Imran (2020). Regional development of Bumblebees from crop pollination . Apidology (Submitted)
2. Fatima Abdulla Alkhayat , Abu H. Ahmad, Junaid Rahim, Hamady Dieng, Bashir Adam Ismail e, Muhammad Imran **Umer Ayyaz Aslam Sheikh** and Allah Ditta (2020). Charaterization of mosquito larval habitats in Qatar. Saoudi Journal of Biological Sciences. 27(2020): 2358-2365.
3. Muhammad Imran, **Umer Ayyaz Aslam Sheikh**, Muhammad Nasir, Muhammad Junaid Iqbal, Muhammad Adnan Asghar, Taimoor Fazil, Muhammad Abdual Ghaffar and Junaid Rahim (2020). Susceptibility Comparison of Bumblebee and Honeybee to Acetamiprid and Imidacloprid. International Journal of Industrial Entomology (Submitted).
4. Muhammad Imran, Muhammad Naeem, Munir Ahmad, **Umer Ayyaz Aslam Sheikh**, Muhammad Nasir and Shudong Lue. (2020). Bumblebee Colony Development was Affected by Different Diets. Journal of Apiculture Science (Submitted)
5. Muhammad Nasir, Ata-ul-Mohsan, Munir Ahmad, Shafqat Saeed, Muhammad Asif Aziz, Muhammad Imran and **Umer Ayyaz Aslam Sheikh** (2019). Effect of Different Temperatures on Colony Characteristics of *Bombus terrestris* (Hymenoptera: Apidae). Pakistan Journal of Zoology 51(4): 1315-1322

6. Muhammad Imran, **Umer Ayyaz Aslam Sheikh**, Muhammad Nasir, Muhammad Abdul Ghaffar, Ansa Tamkeen, and Muhammad Aamir Iqbal (2019). Do neonicotinoid insecticides impaired olfactory learning behavior in *Apis mellifera*?. International Journal of Industrial Entomology 38(1) 1-5
7. **Umer Ayyaz Aslam Sheikh**, Khalid Mahmood, Khawar Nazir, Sakhawat Ali, Muhammad Imran, Muhammad Abdul Ghaffar and Ansa Tamkeen (2018). Faunistic work on bumblebees (Hymenoptera: Apidae) of district Kharmang, Sakardu, Pakistan. International Journal of Biosciences 13 (4): 141-146.
8. Muhammad Imran, Tayyaba Naseem, Arshad Iqbal, Khalid Mahmood, **Umer Ayyaz Aslam Sheikh** (2018). Assessment of sensitivity level of honeybee (*Apis mellifera*) to neonicotinoid insecticides. Asian J Agri & Biol. 6(3):327-334
9. Mahwish Raza, **Umer Ayyaz Aslam Sheikh** and Sakhi Muhammad (2017). Pesticide usage by Farmers; A case study of District Rawalpindi, Pakistan. International Journal of Agronomy and Agricultural Research . 11(4): 1-5
10. Mehmood- ul-Hassan, Muhammad Ibrahim Tahir, Muhammad Azeem, Muhammad Sajid, Awais Ali, Muhammad Imran, Muhammad Irfan, **Umer Ayyaz Aslam Sheikh**. (2017). Effect of Mechanized Verses Conventional Tillage and Cropping Systems on Weeds Biomass. Transylvanian Review 1(6): 5099-5107
11. **Umer Ayyaz Aslam Sheikh**, Munir Ahmad, Muhammad Asif Aziz, Muhammad Naeem, Khalid Mahmood, Muhammad Nasir and Muhmmaad Imran (2017). Food plants and bionomics of indigenous Bumblebee, *Bombus haemorrhoidalis* Smith in Rawalakot, Azad Jammu and Kashmir of Pakistan. International Journal of Biosciences 11 (1): 89-96.
12. Muhammad Imran*, Munir Ahmad, Muhammad Naeem, Khalid Mahmood, Muhammad Nasir and **Umer Ayyaz Aslam Sheikh** 2017. Are colony developmental stages of bumblebee, *Bombus terrestris* (hymenoptera: apidae) affected by different concentrations of sugar and honey solutions? International Journal of Industrial Entomology. 34 (2): 1-9
13. Muhammad Imran, Kanwal Haneef, Munir Ahmad, Muhammad Nasir and **Umer Ayyaz Aslam Sheikh** (2017). Comparative Toxicity of Insecticides against Two Important Insect Pests of Cauliflower Crop. Asian Journal of Agriculture and Biology. 5 (2):88-98.
14. Muhammad Imran, Munir Ahmad, Muhammad Naeem, Muhammad Farooq Nasir, Imran Bodhla, Muhammad Nasir and **Umer Ayyaz Aslam Sheikh**. (2017) Effects of different types of Boxes on rearing of Bumble Bee, *Bombus terrestris*. Pakistan. Pakistan J. Zool., 49(1): 169-174
15. **Umer Ayyaz Aslam Sheikh**, Muhammad Asif Aziz, Munir Ahmad, Muhammad Naeem, Imran Bodlah , Muhammad Imran and Muhammad Nasir. (2015) First record of Genus *Bombus* Latreille (Hymenoptera: Apidae) in Naran Kaghan valley of Pakistan and their floral host range. Journal of Biodiversity and Environmental Sciences 7 (1): 215-223
16. Muhammad Imran, Munir Ahmad, Muhammad Naeem, Shafqat Saeed, Muhammad Farooq Nasir, Asif Ahmad, Muhammad Nasir and **Umer Ayyaz Aslam Sheikh**. (2015) Effect of fresh pollen pellets and pollen balls coated with and without beeswax on the life history parameter of

bumblebee (*bombus terrestris*). Journal of Biodiversity and Environmental Sciences. 6(5): 144-153.

17. Muhammad Nasir, Munir Ahmad, Ata Ul Mohsin, Shafqat Saeed, Muhammad Asif Aziz, Munir Ahmad, Muhammad Imran and **Umer Ayyaz Aslam Sheikh**. (2015) Light intensity improves the copulating behavior and colony initiation of bumblebee, *Bombus terrestris* (Hymenoptera: Apidae). International Journal of Biosciences 7 (2): 56-64
18. Munir Ahmad, Imran Bodlah, Kashif Mehmood, **Umer Ayyaz Aslam Sheikh** and Muhammad Asif Aziz. (2015) Pollination and Foraging Potential of European Bumblebee, *Bombus terrestris* (Hymenoptera: Apidae) on Tomato Crop under Greenhouse System. Pakistan. Pakistan J. Zool., 47(5): 1279-1285
19. Mahwish Raza, Muhammad Farooq, Sakhi Muhammad and **Umer Ayyaz Aslam Sheikh**. (2015) Efficacy of different commercially available weedicides on wheat *Triticum aestivum* in Rawalpindi Pakistan. International Journal of Agronomy and Agricultural Research 7 (2): 205-209
20. **Umer Ayyaz Aslam Sheikh**, Munir Ahmad, Muhammad Imran, Muhammad Nasir, Shafqat Saeed and Imran Bodlah. (2014) Distribution of Bumblebee, *Bombus haemorrhoidalis* Smith, and its association with Flora in Lower Northern Pakistan. Pakistan J. Zool., 46(4).1045-1051.
21. **Umer Aslam Sheikh**, M. Aslam and Munir Ahmad. (2011) Co-evolution in *Pediculus humanus capitis* (De Geer) (Anoplura: Pediculidae) colour in response to human hair, J. Agric. Biol. Sci. 3(1):50-53.

Conferences Papers Presentations :

1. **Umer Ayyaz Aslam Sheikh**, Muhammad Imran, Muhammad Nasir, Junaid Rahim, and Muhammad Abdul Ghaffar. Spatio-temporal Behaviour of Bumblebees in Poonch District, Azad Jammu and Kashmir, Pakistan. 6th International Conference on “Sustainable Agriculture in Changing Climate: Strategies and Management at UPR, June 19-21, 2019
2. **Umer Ayyaz Aslam Sheikh**, Munir Ahmad, Asif Aziz, Khalid Mahmood and Muhammad Imran. (2018). *Bombus haemorrhoidalis* in comparison with other pollinators in Rawalpindi and Naran Khagan valley Pakistan. Second National Conference on Emerging Trends in Bioinformatics and Bioscience held on August 9-11, 2018, Organized by Hazara University Mansehra, KPK, Pakistan.
3. **Umer Ayyaz Aslam Sheikh**, Munir Ahmad, Muhammad Asif Aziz, Khalid Mahmood, Muhammad Imran and Muhammad Nasir. (2018) *Bombus haemorrhoidalis* abundance and pollinators diversity in Rawalpindi/Islamabad and Naran Kaghan Valley, Pakistan. Oral Presentation at 38th Pakistan Congress of Zoology (International) held on February 27 to March 1, 2018. Organized by Department of Zoology, University of Punjab, Lahore.
4. **Umer Ayyaz Aslam Sheikh**, Muhammad Asif Aziz, Munir Ahmad, Muhammad Naeem, T.H. Roulston and Muhammad Imran. (2015) Floral Host Range And Distribution of Indigenous Bumblebee, *Bombus Haemorrhoidalis* Smith In Rawalakot, Azad Kashmir of Pakistan. Oral Presentation at 4th International Molecular Biology and Biotechnology congress & Conference

on Life Science Research. September 04-06, 2015 organize by Life Science Society of Pakistan, Isra University, Islamabad Campus and Pakistan and Nobel Science and Research Center Turkey

5. Muhammad Imran, Munir Ahmad, Muhammad Farooq Nasir, Shafqat Saeed and **Umer Ayyaz Aslam Sheikh**. (2015) Effect of fresh pollen pellets and pollen patties coated with and without beeswax on the life history parameter of bumblebee *bombus terrestris* (hymenoptera: apidae) Oral Presentation at 4th International Molecular Biology and Biotechnology Congress & Conference on Life Science Research. September 04-06, 2015 organize by Life Science Society of Pakistan, Isra University, Islamabad Campus and Pakistan and Nobel Science and Research Center Turkey
6. Muhammad Nasir, Munir Ahmad, Ata ul Mohsin, Muhammad Asif Aziz, Muhammad Imran and **Umer Ayyaz Aslam Sheikh**. (2015) Light Intensity Improves The Copulating Behaviour and Colony Initiation of Bumblebee, *Bombus Terrestris* (Hymenoptera: Apidae). Oral Presentation at 4th International Molecular Biololgy and Biotechnology congress & Conference on Life Science Research. September 04-06, 2015 organize by Life Science Society of Pakistan, Isra University, Islamabad Campus and Pakistan and Nobel Science and Research Center Turkey
7. Mahwish Raza, Muhammad Aslam, Munir Ahmed and **Umer Ayyaz Aslam Sheikh**. (2015) Use of Elevated Temperature For Management of *Tribolium Castaneum* (Herbst) and *Sitophilus Oryzae* (L) In Stored Wheat. Oral Presentation at 4th International Molecular Biololgy and Biotechnology congress & Conference on Life Science Research. September 04-06, 2015 organize by Life Science Society of Pakistan, Isra University, Islamabad Campus and Pakistan and Nobel Science and Research Center Turkey
8. **Umer Ayyaz Aslam Sheikh**, Munir Ahmad, Muhammad Naeem, Imran Bodlah and Muhammad Imran. (2014) First record of Genus *Bombus* Latreille (Hymenoptera: Apidae, Bombini) in Naran Kaghan valley of Pakistan and their floral host range. poster presentation at the 5th International Conference on Agriculture, Food Security and Climate Change. September 9-10, 2014 jointly organized by University of Poonch Rawalakot, PAS-Forum and HEC.
9. Muhammad Imran, Munir Ahmad, Muhammad Farooq Nasir, Shafqat Saeed and **Umer Ayyaz Aslam Sheikh**. (2014) Mating rate improves with the material of mating cage in *Bombus terrestris* (Hymenoptera: Apidae)” poster presentation at the 5th International Conference on Agriculture, Food Security and Climate Change. September 9-10, 2014 jointly organized by University of Poonch Rawalakot, PAS-Forum and HEC.
10. Muhammad Imran, Kanwal Hanif, Munir Ahmad, Muhammad Nasir and **Umer Ayyaz Aslam Sheikh**. (2013) Comparative toxicity of insecticide against two Lepidopteron important insect pests of cauliflower crop. Pakistan Congress of zoology (International), April 01-04, 2013, Natural History Museum, Islamabad, Pakistan
11. **Umer Ayyaz Aslam Sheikh**, Muhammad Munir Ahmad, Imran Bodlah and Muhammad Imran. (2013) Host range, new locality records and seasonal distribution of the only *Bombus* pollinator, *Bombus haemorrhoidalis* Smith in Margalla and Murree hills, Northern Pakistan. Pakistan Congress of zoology (International), April 01, 2013, Natural History Museum, Islamabad, Pakistan.

12. **Umer Ayyas Aslam Sheikh**, Munir Ahmad and Kanwal Hanif. (2012) Toxicity of Insecticides against *Spodoptera litura* Important Insect Pest of Cauliflower Crop. Pakistan congress of zoology (International), GC University, Lahore, April, 2012.

STUDENT SUPERVISED/ CO-SUPERVISED:

No.	Name	Degree	Research Topic
1.	Samreen Irshad	PhD	Ecology of Pollinator
2.	Arshad Iqbal	M.Sc (Hons)	Ecology of Bumblebees
3.	Khawar Nazir	M.Sc (Hons)	Biosystematics of Mosquitoes
4.	Neelum	M. Phill	Biosystematics of Bumblebees
5.	Nashmia	M. Phill	Effect of Insecticide on Bumblebees
6.	Shabnam	M. Phill	Effect of Insecticide on Bumblebees
7.	Sakhawat Ali	B.Sc (Hons)	Bumblebees of Sakardu, Pakistan
8.	Asim Shafeeq	B.Sc (Hons)	Effect of insecticide on <i>Apis mellifera</i>
9.	Adnan Aslam	B.Sc (Hons)	Effect of insecticide on <i>Apis cerana</i>
10.	Juanid Iqbal	B.Sc (Hons)	Effect of Insecticide on Bumblebees

REFERENCE:

1. **Dr. T'ai H. Roulston** Research Associate Prof. Env. Sciences, University of Virginia, USA
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2. **Dr. Munir Ahmad** Associate Prof. Entomology, PMAS-AAUR, Pakistan
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