

# *Syed Basit Rasheed, Ph.D.*

**Father Name:** Mian Abdur Rasheed

**Office Address:** Department of Zoology, University of Peshawar, Peshawar.  
KP, Pakistan.

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## **EDUCATION**

2015-2016 National Centre of Excellence in Geology, University of Peshawar, Peshawar, Pakistan.  
*Post Graduate Diploma in GIS & RS*

2009 - 2012 Department of Animal and Plant Sciences, The University of Sheffield, Sheffield. UK  
*Ph.D. Medical/Molecular Entomology.*

2004 – 2006 Department of Zoology, University of Peshawar, Peshawar, Pakistan.  
*M.Sc. Zoology (Specialization in Medical Entomology)*

2002 – 2004 Islamia College, University of Peshawar, Peshawar, Pakistan.  
*B.Sc. Biological Sciences*

2000 – 2002 F.G. Sir Syed College, The Mall, Rawalpindi Cantt. Pakistan.  
*F.Sc. (Pre-Medical)*

1998 – 2000 PAF Intermediate College Chaklala, Rawalpindi, Pakistan  
*SSC (Science)*

## **DISTINCTIONS**

- ❖ HEC approved PhD supervisor (since 2012)
- ❖ Departmental Fee Waiver Scholarship for PhD by The University of Sheffield, UK.
- ❖ Scholarship of Faculty Development Program funded by Higher Education Commission Pakistan and University of Peshawar.
- ❖ 3<sup>rd</sup> in Zoology in University of Peshawar.
- ❖ HEC presidential talent farming scholarship for Masters 2004-06.

## **JOB EXPERIENCE**

- ❖ Assistant Professor, Department of Zoology. University of Peshawar. KP. Pakistan. (20/04/2012 to date)
- ❖ Lecturer, Department of Zoology. Islamia College University. Peshawar. KP. Pakistan. (1/12/2007 to 31/12/2008)

## **JOB AND OTHER DUTIES**

- ❖ Teaching
  - Biostatistics to MPhil/PhD
  - Entomology, Animal Behaviour and Biostatistics to MSc
  - Entomology, Animal Behaviour, Biostatistics & Research Methodology to BS
- ❖ BS Coordinator from 1<sup>st</sup> March 2013 to 28<sup>th</sup> February 2017.
- ❖ Departmental focal person for PM laptop scheme.
- ❖ Departmental focal person for PM fee reimbursement scheme.
- ❖ Member Departmental Board of Studies since 2013.
- ❖ Member Departmental Semester Committee since 1<sup>st</sup> March 2017
- ❖ Member Semester Syllabus Review Committee
- ❖ Member Departmental Purchase Committee from 2013.
- ❖ Member Departmental Disciplinary Committee since 2016.
- ❖ Member National Curriculum Review Committee for Agriculture Entomology.
- ❖ Member National Curriculum Review Committee for Zoology.
- ❖ Member as expert of vector control in Dengue Response unit during the 2017 epidemic of Peshawar.
- ❖ Technical expert to Provincial Health Department for the control of dengue in Khyber Pakhtunkhwa.
- ❖ Examiner BSc Shaheed Benazir Bhutto Women University Peshawar since 2012 (Zoology Paper B)
- ❖ Examiner BSc Haripur University from 2014 to 2016
- ❖ Member as technical expert on vector of Leishmaniasis of Technical Working Group on Leishmaniasis of Ministry of National Health Services, Regulation and Coordination Pakistan.

## **RESEARCH WORK:**

- ❖ Dengue Vector Dynamics in Pakistan. (Ph.D. Thesis, 2012, University of Sheffield. UK) Pages 226
- ❖ Survey of immature stages of mosquitoes found in selected areas of Palosai Khuwar stream. (M.Sc Thesis, 2007, University of Peshawar) Pages 78.

## **CONFERENCES/WORKSHOPS/TRAININGS ATTENDED**

- ❖ 26<sup>th</sup> Pakistan Congress of Zoology (International), April 4 to 6, 2006. University of the Punjab, Lahore Pakistan.

- ❖ 27<sup>th</sup> Pakistan Congress of Zoology (International), February 27 – March 1<sup>st</sup>, 2007. Bahauddin Zakariya University Multan, Pakistan and presented paper on “Determination of species composition of mosquitoes found in Palosai Khuwar Stream, Peshawar”.
- ❖ 43rd Population Genetics Group Meeting, January 5 to 8, 2010. School of Biological Sciences, University of Liverpool, Liverpool. UK.
- ❖ Two-day symposium “**Dengue Fever: Virology and vector control**”. January 31<sup>st</sup> to February 1<sup>st</sup> 2013. NIBGE, Faisalabad.
- ❖ 33<sup>rd</sup> Pakistan Congress of Zoology (International), April 2 to 4, 2013. Pakistan Museum of Natural History, Islamabad and PMAS Arid Agriculture University, Rawalpindi, presented paper via Abstract number Ent-62, page 238.
- ❖ Four days Work Shop on “**Project Management and Proposal Writing**”. October 28<sup>th</sup> to 31<sup>st</sup>, 2013. Organized by HEC and Center of Human Resource and Carrier Development (CHRCDD), University of Peshawar. Peshawar.
- ❖ 5 days certified indigenous on-campus training (IOT) on “**Presentation Skills**”. 24<sup>th</sup> to 28<sup>th</sup> November, 2014 by CHRCDD, University of Peshawar.
- ❖ 34<sup>th</sup> Pakistan Congress of Zoology (International), February 25 to February 27, 2014. Bahauddin Zakariya University, Multan.
- ❖ International Conference on Innovative Biological and Public Health Research (IBPHR-2014), May 06-08, 2014. Department of Zoology, GC University Lahore. Abstract No. VBD-2101. “Distribution and Ecology of *Aedes aegypti* (Diptera: Culicidae) in Pakistan”.
- ❖ 5 days Certified IOT on “**Good governance**” 23<sup>rd</sup>, 24<sup>th</sup>, 26<sup>th</sup>, 29<sup>th</sup> & 30<sup>th</sup> December 2014 by CHRCDD, University of Peshawar.
- ❖ 5 days certified IOT on “**Leadership**”, 30<sup>th</sup> March to 3<sup>rd</sup> April, 2015 by CHRCDD, University of Peshawar.
- ❖ 37<sup>th</sup> Pakistan Congress of Zoology (International), February 28 to March 2, 2017. Government College University, Faisalabad.
- ❖ 38<sup>th</sup> Pakistan Congress of Zoology (International), February 27 to March 1, 2018, The University of Punjab, Lahore.
- ❖ After Action Review for – Outbreak of Dengue Fever in Khyber Pakhtunkhwa Province Pakistan. 14<sup>th</sup> to 16<sup>th</sup> May, 2018. Organized by World Health Organization. PC, Peshawar.

- ❖ National Consultation on Strategic Framework for Prevention and Control of Cutaneous Leishmaniasis Outbreaks in Khyber Pakhtunkhw, Tribal Areas and Balochistan. 16-17<sup>th</sup> August, 2018. World Health Organization. PC, Bhurban.
- ❖ Master trainer in Two days refresher training course for field entomologists in Vector Surveillance methods being organized by WHO in Institute of Public Health Lahore on 5,6 March 2019.
- ❖ 1<sup>st</sup> meeting of technical working group on Leishmaniasis organized by Ministry of National Health Services, Regulation and Coordination Pakistan on 5<sup>th</sup> July, 2019 (Member of TWG on leishmaniasis as technical expert on vector)

## PROJECTS

- ❖ Leishmania vector (Sandfly) and Reservoir host (Dogs and Rodents) identification in Khyber Agency: FATA, Pakistan. NRPU project No. 4135. HEC Pakistan (2.8 Million)

## PUBLICATIONS

1. Ullah, H., Javid, A. and **Rasheed, S.B.** (2018). Differentiation in some *Pipistrellus* (Order: Chiroptera) species captured from Bajaur Agency, Pakistan. *Pakistan Journal of Zoology* (accepted)
2. Jamal Q., Ahmad, S., Khan, N.H., Wahid, S., Ikram, M., Rehman, S., **Rasheed, S.B.** and Shah, A. (2018). *In-vitro* anticancer activity of Copper (II) and Zinc (II) complexes with derived Schiff base ligands. *Pakistan Journal of Zoology*, 50 (6): 1-3.
3. Jamal Q, Idrees M, Ullah S, Adnan M, Zaidi, F, Zaman Q and **Rasheed SB** (2018). Diversity and Altitudinal distribution of Squamata in two distinct ecological zones of Dir; a Himalayan subzone of Northern Pakistan. *Pakistan Journal of Zoology*, 50(5): 1835-1839.
4. Fatima, S.H., Ali, A. Zaidi, F. **Rasheed SB**, Fatima, M. and Khisroon, M. (2018). Patterns of occurrence of dengue and chikungunya and spatial distribution of mosquito vector *Aedes albopictus* in Swabi district, Pakistan. *Tropical Medicine & International Health*. 23(9): 1002-1013
5. Hamidullah, Javid A, **Rasheed SB**, Zeb J, Ullah A and Attaullah (2018). First Record of *Myotis formosus* Hodgson's bat (Hodgson, 1835) from Bajaur agency, FATA, Pakistan. *Journal of Animal and Plant Sciences*. 28(04): 1199-1203
6. Zaidi F, Fatima, S.H., Jan, T., Fatima, M., Ali, A., Khisroon, M., Adnan, M. and **Rasheed, S.B.** (2017). Environmental risk modeling and potential sandfly vectors of Cutaneous Leishmaniasis in Chitral District: A leishmanian focal point of mount Trichmir, Pakistan. *Tropical Medicine & International Health*. 22(9): 1130-1140

7. Gloria-Soria, A., Ayala, D., Bheecarry, A., Calderon-Arguedas, O., Chadee, D.D., Chaipero, M., Coetzee, M., Elahee, K.B., Fernandez-Salas, I., Kamal, H. A., Kamagang, B., Khater, E.I.M., Karmer, L.D., Karmer, V., Lopez-Solis, A., Lutomiah, J., Maritns Jr, A., Victoria, M., PPaupy, C., Ponlawat, A., Rohala, N., **Rasheed, S.B.**, Richardson, J.B., Saleh, A.A., Sanchez-Casas, R.M., Seixas, G., Sousa, C.A., Tabachnick, W.J., Troyo, A. and Powell, J.F. (2016). Global genetic diversity of *Aedes aegypti*. *Molecular Ecology*. 25(21): 5377-5395.
8. Fatima, S.H., Atif, S., **Rasheed, S.B.**, Zaidi, F. and Hussain, E. (2016) Species distribution modelling of *Aedes aegypti* in two dengue-endemic regions of Pakistan. *Tropical Medicine and International Health*. 21(3): 427-36. Doi: 10.1111/tmi.12664.
9. Ali, N., Ullah, A., Wahid, S., Khisroon, M and **Rasheed, S.B.** (2016) Distribution, species composition and relative abundance of sand flies in North Waziristan Agency, Pakistan. *Medical and Veterinary Entomology*. 30(1):89-94. Doi: 10.1111/mve.12141.
10. Khan, K., Wahid, S., Khan, N.H., Zaidi, F., **Rasheed, S.B.** and Ali, N. (2015) Numerical taxonomic analysis of sandflies (Diptera; Psychodidae) from Dir Districts, KP, Pakistan. *Journal of Science and Technology University of Peshawar*. 39(1): 13-22.
11. Wesolowski, A., Qureshi, T., Boni, M.F., Sundsoy, P.R., Johansson, M.A. **Rasheed, S.B.**, Engo-Monsen, K. and Buckee, C.O. (2015) Impact of human mobility on the emergence of dengue epidemics in Pakistan. *PNAS*. 112(38): 11887-92. Doi: 10.1073/pnas.1504964112.
12. Hasan, Z., Ullah, S., **Rasheed, S.B.**, Kakar, A. and Ali, N. (2015). Ichthyofaunal diversity of river Panjkora, District Dir Lower, Khyber Pakhtunkhwa. *Journal of Animal and Plant Sciences*. 25(3): 550-63.
13. Khisroon, M., Gul, A., Khan, A., Ali, N., Zaidi, F., **Rasheed, S.B.**, Ahmadullah and Akbar, H. (2015). Comet assay based DNA evaluation of fuel filling stations and automobile workshops workers from Khyber Pakhtunkhwa province, Pakistan. *Journal of Occupational Medicine and Toxicology* 10(27), 1-6.
14. Khisroon, M., Khan, A., Naseem, M., Ali, N., Khan, S and **Rasheed, S.B.** (2015). Evaluation of DNA damage in lymphocytes of radiology personnel by comet assay. *Journal of Occupational Health* 57 (3), 268-74.
15. **Rasheed, S.B.**, Butlin, R.K. and Boots, M. (2013). A review of dengue as an emerging disease in Pakistan. *Public Health*. 127 (1), 11-17.
16. **Rasheed, S.B.**, Boots, M., Frantz, A.C. and Butlin, R.K. (2013). Population structure of the mosquito *Aedes aegypti* (*Stegomyia aegypti*) in Pakistan. *Medical and Veterinary Entomology*. 27 (4), 430-440.

17. Ali, N. and **Rasheed, S.B.** (2008). A ♀ gynandromorph of *Culex pipens quinquefasciatus* from Pakistan. *Pakistan Entomologists* 30(1): 1-3.
18. Ali, N. and **Rasheed, S.B.** (2009). Determination of species composition of mosquitoes found in Palosai Khuwar stream, Peshawar. *Pakistan Entomologists* 31(1): 47-51.

### **MSc THESIS SUPERVISED**

<b>Year</b>	<b>Title</b>	<b>Student Name</b>
2012-13	Human Biomonitoring: Assessment of DNA damage/genotoxicity in individuals occupationally exposed to complex mixture of pesticides using alkaline single cell gel electrophoresis/comet assay	Mahmood ul Hassan
2012-13	Assessment of Histopathology and genotoxicity in fish exposed to sodium benzoate	Adnan Amin
2012-13	Prevalence of <i>Babesia bigemina</i> in Peshawar cattle and buffaloes diagnosing through PCR and microscopy	Summaya Marwat
2012-13	Prevalence of <i>Babesia bovis</i> in Peshawar cattle and buffaloes diagnosing through PCR and microscopy	Hafsa Khush
2013-14	Ictiofaunal diversity and physiochemical analysis of River Tochi at Tehsil Mir Ali North Waziristan Agency	Hafiz Jamil ur Rehman
2013-14	Ictiofaunal diversity and physiochemical parameters of River Kabul at Shalman Valley Khyber Agency Pakistan	Wazir Akbar
2014-15	Ecology and distribution of <i>Aedes aegypti</i> in dengue affected area of Mingora, Swat.	Sher Malik
2014-15	Species composition of mosquitoes in urban area of Dist. Bannu.	Sonia Ghulam Muhammad
2014-15	Species composition of tyre breeding mosquitoes in Dist. Dera Ismail Khan, Khyber Pakhtunkhwa.	Syed M. Bilal
2014-15	Species composition and taxonomy of grasshoppers in Dist. Charsadda.	Sadaqat Amin
2015-16	Species composition of sandflies (Diptera: Psychodidae) in Lund Khwar Area of District Mardan.	Bibi Sara
2015-16	Ant (Formicinae: Hymenoptera) diversity of Gujrat Area of District Mardan	Khushbakht Asad
2015-16	Ant (Formicinae: Hymenoptera) diversity of Pehure Colony, Tarbela: District Swabi	Maria Ali
2015-16	Species composition and relative abundance of mosquito fauna of selected areas of District Laki Marwat.	Sadia Irfan
2016-17	Species composition and relative abundance of Sand Flies in Manki Sharif, District Nowshehra.	Samiullah
2016-17	Species composition and relative abundance of mosquitoes in	Zarak Khan

	Village Kheishge, District Nowshera.	
2016-17	Species composition of Ants in District Haripur	Sara Bibi
2016-17	Species composition of Ants in Sirai Naurang of District Laki Marwat	Mushahid ullah

### **BS THESIS SUPERVISED**

<b>Year</b>	<b>Title</b>	<b>Student Name</b>
2014-15	Effect of heavy metal (Mercury) on the growth and histology of fish fingerlings under lab conditions	Aftab Ahmad
2014-15	Effect of heavy metal (Cadmium) on the growth and histology of fish fingerlings under lab conditions.	M. Junaid
2015-16	Grasshopper Diversity of District Swabi	Huma Khan
2016-17	Species composition and relative abundance of sand fly in District Malakand and adjoining area, Khyber Pakhtunkhwa, Pakistan., District Malakand.	Rafeeq Zaman
2016-17	Species composition and relative abundance of sand fly in District Mardan and adjoining area, Khyber Pakhtunkhwa, Pakistan.	Muhammad Nisar
2016-17	Diversity of Ants (Hymenoptera; Formicidae) in District Bannu, Khyber Pakhtunkhwa.	Sobia Saad

### **MPhil THESIS SUPERVISED**

<b>Year</b>	<b>Title</b>	<b>Student Name</b>	<b>Role/Student Institute</b>
2012-14	Assessment of DNA damage caused by anticonvulsants using alkaline single cell gel electrophoresis (comet assay)	Farida Begum	Co-Supervisor ICS, University of Peshawar
2012-14	Species distribution modeling of dengue mosquitoes in two environmental regimes, Lahore and Swat: Implications in vector biology	Syeda Hira Fatima	Co-Supervisor IGIS, NUST, Islamabad
2014-16	Mapping Dengue Vector Habitat and Distribution in Ayub Park and Gulistan Colony, Rawalpindi	Mehreen Ali	Co-Supervisor IGIS, NUST, Islamabad
2014-16	Species composition and ecology of ants in Charsadda, Khyber Pakhtunkhwa.	Ahmad Yar	Supervisor
2014-16	An outbreak investigation of cutaneous leishmaniasis in Khyber Agency Pakistan.	Zahid Gul	Supervisor
2015-17	Ants Diversity of District Malakand.	Kausar	Supervisor
2016-18	Diversity and Nesting Pattern of Wasp (Hymenoptera: Vespidae) in Tehsil Kabal of District Swat.	Anwar Sultana	Supervisor
2016-18	Assessment of Water Quality Degradation Due to Waste Dumping and its Effect On Ichthyo-Diversity of River Swat	Tanveer Shahzad	Supervisor

### **MPhil THESIS UNDER PROGRESS**

<b>Year</b>	<b>Title</b>	<b>Student Name</b>
2014-16	Species composition, relative abundance and vector incrimination of mosquitoes (Diptera: Psychodidae) in Bara Tehsil of Khyber Agency.	Ajmal Khan
2015-17	Diversity of Ants in District Peshawar	Raheela Azam
2015-17	Species composition of sandflies (Diptera: Psychodidae) in Salarzai Tehsil, Bajaur Agency.	Muhammad Ismail
2017-18	Diversity of Hard Ticks in Bajaur Agency.	Muhammad Javed

### **PhD THESIS SUPERVISED**

<b>Year</b>	<b>Title</b>	<b>Student Name</b>	<b>Role</b>
2014-18	Biodiversity and parasitic prevalence of Bats in selected areas of North West Pakistan.	Hamidullah	Supervisor

### **PhD THESIS UNDER PROGRESS**

<b>Year</b>	<b>Title</b>	<b>Student Name</b>
2013-17	Ecology, distribution and molecular genetics of <i>Tor</i> genus in Pakistan. (Near Completion)	Muhammad Yousaf
2014-18	Leishmania Vector Dynamics in Khyber Agency.	Zahir Shah