

MUHAMMAD AKBAR KHAN (PhD)

Nationality Pakistani
Marital status Married (3 children)

Present Position

- Associate Professor, Zoology Department, University of the Punjab, Lahore.
- Warden Boys Hostel No. 14, University of the Punjab, Lahore.

Professional Training

- Harvard University, Department of Human Evolutionary Biology, Boston, United States of America.

Publications : 162 (150 articles, 3 monographs, 2 books, 1 book chapter, 6 conference paper).
Citations : 779 ; h- index : 20 ; i10-index : 22 ; Abstracts : 85.

Research Supervision: PhD produced – 7; MPhil/MS produced – 35; MSc/BS – 35.

Field of Specialization. Vertebrate Paleontology.

Field of Research Activities

Akbar is interested in various aspects of the Late Miocene mammals, especially ruminants.

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Pakistan
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Residence Warden House, Boys Hostel No. 14, New Campus, University
of the Punjab, Lahore, Pakistan

Web Address/IDs

- <http://faculty.m-akbar-khan.pu.edu.pk>
- <http://sc.hec.gov.pk/aphds/submit.asp?supid=3220>
- https://www.researchgate.net/profile/Muhammad_Akbar_Khan2
- <http://www.scopus.com/authid/detail.url?origin=AuthorProfile&authorId=15047997600>
- http://scholar.google.com/citations?hl=en&view_op=list_works&gmla=&user=9qyIi1QAAAA

Teaching Palaeontology and Zoogeography since 2003. Additional disciplines: Animal diversity, Mammalogy and Evolution:

1. **01 Feb 2012 – continue** – Assistant Professor (TTS), Zoology Department University of the Punjab, Lahore, Pakistan.
2. **16 Jan 2008 - 31 Jan 2012** – Assistant Professor (BPS), Zoology Department, GC University Faisalabad, Pakistan.
3. **2003-2008** – Lecturer (Visiting/Contract) – Zoology Department and Undergraduate Block, University of the Punjab, Lahore, Pakistan.
4. **2000 - 2003** – Field demonstrator (Honorary) - Zoology Department, University of the Punjab, Lahore, Pakistan.

Funding

1. 2017- Punjab University funded research project of Rs. 150,000/- entitled, “The Large Mammalian Fauna from the New Vertebrate Site of Pabbi Hills (Pleistocene), Pakistan”.
2. 2017- ‘Erasmus + International Credit Mobility KA 107’ for the purpose of staff mobility for training funded by European Union.

1. 2016- HEC funded research project of Rs. 4,123,284/-, entitled, 'The Siwalik Proboscideans from Northern Pakistan'.
2. 2016- Punjab University funded research project of Rs. 150,000/- entitled, 'Suidae (Mammalia) from Dhok Pathan Formation of Potwar Plateau, Pakistan'.
3. 2016- Punjab University funded research project of Rs. 150,000/- entitled, 'Mammalian Fossil collection from the Potwar Plateau of Pakistan for the Fossil Display Research Centre at the Jhelum Campus, University of the Punjab, Lahore'.
4. 2015- University of the Punjab funded special grant Rs. 1540000/- for the establishment of Palaeontology laboratory, University of the Punjab, Lahore.
5. **2015**- Punjab University funded research project of Rs. 150,000/-, entitled '*Progiraffa* (Mammalia, Artiodactyla, Giraffidae) from Lower Siwaliks of northern Pakistan.
6. **2014**- University of the Punjab funded special grant Rs. 2670000/- for the establishment of Fossil Display & Research Centre.
7. **2014**- University of the Punjab funded special grant Rs. 619000/- for the establishment of Fossil Display & Research Centre
8. **2014**- Punjab University funded research project of Rs. 150,000/-, entitled 'Tragulid (Mammalia, Artiodactyla, Tragulidae) fossils from the Dhok Pathan Formation of northern Pakistan.
9. **2013**- Punjab University funded research project of Rs. 150,000/-, entitled 'Mammalian fauna from the Middle Miocene of Dhok Bun Amir Khatoon, northern Pakistan: Taxonomy and Biostratigraphy'.
10. **2010**- HEC funded research project of Rs. 16,45,800/-, entitled, 'Extinct Bovids from the Dhok Pathan Formation of the district Chakwal in the Siwaliks of Northern Pakistan'.

Travelling grants

1. **20-09-19** – Received Rs. 300,000/- travelling grant to participate in the 79th annual meeting of the Society of Vertebrate Paleontology in Brisbane, Australia from 9-12 October, 2019.
2. **30-08-18** – Received Rs. 230,000/- travelling grant to participate in the 1st Conference of the Arabian Journal of Geosciences (CAJG), in Hammamet, Tunisia from 12-15 November, 2018.
3. **16-04-18** – Received Rs. 343764/- travelling grant to participate IPC5 (July 9 to 13, 2018) at Muséum National D'Histoire Naturelle, Paris, France from HEC Islamabad.
4. **08-01-18** – Sponsor visit by Harvard and Arizona State University to visit to Harvard University, USA, on May 14-18, 2018.
5. **16-06-2016** – Received Rs. 350000/- travelling grant to participate in the International Scientific Conference Palaeo Down Under 2 at Adelaide, Australia.
6. **2014** – Received Rs. 315000/- travelling grant to participate in 4th International Palaeontological Congress, Mendoza, Argentina.
7. **2007** - Higher Education Commission (HEC) has awarded Rs. 1, 43500/- for traveling to Russia for the presentation in the 4th International Mammoth Conference, June 128-22, 2007.
8. **2006** - Higher Education Commission (HEC) has awarded Rs. 1,25,000/- for traveling to Canada, Montreal, RedPath Museum, McGill University for the oral presentation in the 16th Canadian Paleontology Conference on 13-16, 2006.
9. **2005** - Higher Education Commission (HEC) has awarded Rs. 94,000/- for traveling to USA, South Dakota for the presentation in the 2nd Congress, The World of elephant on Sep 22, 2005.

Collaboration

1. Dr. David Pilbeam, Henry Ford II Professor of Human Evolutionary Biology, Harvard University, USA (project: *Sivapithecus* from Siwaliks).
2. Dr. Jay Kelley, Visiting Professor and Research Affiliate, Institute of Human Origins, Arizona State University, USA. Research Associate, Department of Human Evolutionary

- Biology, Harvard University Curator of Paleoanthropology, Peabody Museum (project: *Sivapithecus* from Siwaliks).
3. Dr. George Iliopoulos, University of Patras, Greece, ‘Erasmus + International Credit Mobility KA 107’ (project Miocene Ruminants of the Siwalik Potwar Plateau: A Correlation with the Miocene Ruminants of Balkan-Irano-Afganian Province).
 4. Dr. Lawrence John Flynn, Peabody Museum of Archaeology and Ethnology. Harvard University, Cambridge, MA 02138, USA (project: Mammalian fauna of the Siwaliks).
 5. Dr. Maria Rios, Department of Paleobiology Museo Nacional de Ciencias Naturales (CSIC) C/ José Gutiérrez Abascal, 2 28006 - Madrid, SPAIN (project: Giraffidae from Siwaliks).
 6. Dr. Roman Croitor, Academy of Sciences, Molodova (project: Siwalik Cervidae).
 7. Dr. Abdul Ghaffar (Department of Meteorology, COMSATS Institute of Information Technology, Islamabad, Pakistan).
 8. Dr. Zaheer Ahmad (Department of Zoology, GC University Faisalabad, Pakistan).
 9. Dr. Arifa Batool (Wildlife & Fisheries and Zoology Department, GC University Faisalabad).

Technical reports

1. 2019. The Large Mammalian Fauna from the New Vertebrate Site of Pabbi Hills (Pleistocene), Pakistan.
2. 2019. The Siwalik Proboscideans from Northern Pakistan (3rd year).
3. 2018. The Siwalik Proboscideans from Northern Pakistan (2nd year).
4. 2017. The Siwalik Proboscideans from Northern Pakistan (1st year).
5. 2016. Suidae (Mammalia) from Dhok Pathan Formation of Potwar Plateau, Pakistan.
6. 2015. *Progiraffa* (Mammalia, Artiodactyla, Giraffidae) from Lower Siwaliks of northern Pakistan
7. 2014. Tragulid (Mammalia, Artiodactyla, Tragulidae) fossils from the Dhok Pathan Formation of northern Pakistan.
8. 2013. Mammalian fauna from the Middle Miocene of Dhok Bun Amir Khatoon, northern Pakistan: Taxonomy and Biostratigraphy’.
9. 2012. Extinct Bovids from the Dhok Pathan Formation of the district Chakwal in the Siwaliks of Northern Pakistan.

Communication and Presentation

1. **2015-continue** – Member Editorial Committee, Punjab University Journal of Zoology, University of the Punjab, Lahore.
2. **2013-2015** – **Associate Editor**, Punjab University Journal of Zoology, University of the Punjab, Lahore.
3. **2008-2011** – **Editor**, journal of Natural Sciences, Zoology Department, GC University, Faisalabad.
4. Papers published and submitted for publication/presentation.
5. Reviewers and External Examiners.

Management

1. **Sep. 17, 2015 to continue** – Warden Boys Hostel No. 14, University of the Punjab, Lahore.
2. **Aug. 25, 2012 to Sep. 17, 2015** – Superintendent Boys Hostel No. 14, University of the Punjab, Lahore.
3. **April 23 to June 2014** – Acting Superintendent Boys Hostel No. 11, University of the Punjab, Lahore.
4. **March 5-26, 2019 (Ref. No. D/541/B.H=19, dated 4-3-19)** – Acting Warden Boys Hostel No. 19, University of the Punjab, Lahore.
5. **June 03 to Aug. 14, 2019 (Ref. No. D/556/BH=19, dated 30-5-19)** – Acting Warden Boys Hostel No. 19, University of the Punjab, Lahore.
6. **Dec. 11, 2018 to Jan. 11, 2019** – Acting Warden Boys Hostel No. 19, University of the Punjab, Lahore.

7. **April 21, 2012 to May 2018** – Coordinator for BS program in Zoology, University of the Punjab, Lahore.
8. **July 2012 to 2016 - Associate Editor** - Punjab University Journal of Zoology, University of the Punjab, Lahore.
9. **July 2012 to 2016** - Incharge computer lab, Zoology department, University of the Punjab, Lahore.
10. **December 03, 2010 to Jan 31, 2012** – Coordinator M. Phil and PhD programs, Zoology Department, GC University, Faisalabad.
11. **April 2010** – Incharge M. Sc. (M), 4th Semester, Zoology Department, GC University, Faisalabad.
12. **2009** – Incharge inventory control, GC University Faisalabad Guest House # 2.
13. **Editor** – Journal of Natural Sciences (2008-2011).
14. **2009** – Incharge GC University Faisalabad Guest House # 2.
15. **February 2007 – Jan. 2008**: Incharge computer lab, Zoology department (PU).
16. **November 2006 – December 2007**: Curator, Department of Zoology, Quid-e-Azam Campus, Punjab University, Lahore (PU).
17. **1998** – Organized several programmes of Adventure Foundation Pakistan at hilly areas since 1998. Member of departmental contingencies committee.

Member of Administrative Bodies

1. **April 22, 2019 (D. No. 407/ HC)** – Member Hall Council Committee-3 for Boys Hostel 18, 19, Islamic Centre Hostel, University of the Punjab, Lahore.
2. **Feb. 27, 2019 (D. No. 913 HC)** – Member of Hall Council investigation team for Boys Hostel 8, University of the Punjab, Lahore.
3. **Feb. 04, 2019 (D. No. 968 HC)** – Member of Hall Council investigation team for Boys Hostel 18, University of the Punjab, Lahore.
4. **Jan. 31, 2019 (R/136/UZ)** – Member Qualification Equivalence Determination Committee (QEDC) for the Posts of Subject Specialist (Biology) (BS-17) in the Mines Labour Welfare Organization Punjab, Lahore.
5. **Feb. 8, 2019 (R/178/UZ)** – Focal Person for Provision of Data for Compilation of Annual Report for the Year 2017-18, Zoology Department, University of the Punjab, Lahore.
6. **Jan. 8, 2019 (R/98/UZ)** – Member of Committee on review of Security arrangements at educational institutions, Zoology Department, University of the Punjab, Lahore, Pakistan.
7. **Jan. 16, 2019 (R/72/UZ)** – Focal Person for data submission for the Year 2019, Zoology Department, University of the Punjab, Lahore.
8. **Feb. 18, 2016 to continue (D/295/UZ)** – Member of Disciplinary Committee, Zoology Department, University of the Punjab, Lahore.
9. **April 09, 2018 to continue (D/644/HC)** – Focal Person of Department Hostel affairs, Zoology Department, University of the Punjab, Lahore, Pakistan.
10. **May 7, 2018 to continue (D/529/UZ)** - Focal Person of Zoology Department, University of the Punjab, Lahore, Pakistan for prevention/elimination of Drug-Use tendencies among students in Educational Institutions.
11. **July 18, 2017 to continue** – Incharge attendance record keeping, building repair and modification, lawn maintenance, Zoology Department, University of the Punjab, Lahore.
12. **Aug. 07, 2019 (D/952/UZ)** – Member MSc Admission Committee, Zoology Department, University of the Punjab, Lahore, Pakistan.
13. **Sep. 05, 2019 (D/1038/UZ)** – Member BS Admission Committee, Zoology Department, University of the Punjab, Lahore, Pakistan.
14. **Jan. 31, 2018 (D/174/UZ)** – member of Interview Committee of PhD in-service program, Zoology Department, University of the Punjab, Lahore.
15. **Oct. 13, 2018** – Member facts finding committee, Hall Council, University of the Punjab, Lahore, Pakistan.
16. **Aug. 29, 2018 (D/1205/UZ)** – Member MSc Admission Committee, Zoology Department, University of the Punjab, Lahore, Pakistan.

17. **2018** – Organizer 38th Pakistan Congress of Zoology, Zoology Department, University of the Punjab, Lahore.
18. **2017** – Organizer annual sports 2017 Zoology Department, University of the Punjab, Lahore.
19. **Sep. 12, 2017 (D/1585/UZ)** – Member/Coordinator BS Admission Committee, Zoology Department, University of the Punjab, Lahore, Pakistan.
20. **Sep. 14, 2017 (D/1610/UZ)** – Member of University Admission Stall Committee, University of the Punjab, Lahore.
21. **Sep. 25, 2017 (D/927/HC)** – Focal Person of Department Hostel affairs, Zoology Department, University of the Punjab, Lahore, Pakistan.
22. **July 18, 2017** – Member accommodation committee for 38th Pakistan Congress of Zoology (International). Zoology Department, University of the Punjab, Lahore.
23. **Aug. 01, 2017- (D/203/QEC)** – Member Curriculum Review Committee, Zoology Department, University of the Punjab, Lahore.
24. **Aug. 23, 2017** – Nomination to visit various colleges of Punjab for affiliation, University of the Punjab, Lahore.
25. **March 03, 2016** – Chairman of Disciplinary Committee, Boys Hostel # 14, University of the Punjab, Lahore.
26. **Oct. 13, 2016 (D/1798/UZ)** – Incharge Non-Teaching Staff, Zoology Department, University of the Punjab, Lahore.
27. **Dec. 15, 2016** – Nomination of Faculty Member for University's 125th Convocation.
28. **May 25, 2016 (D/999/UZ)** – Incharge Lawns/Parking, Zoology Department, University of the Punjab, Lahore.
29. **April 19, 2016 (D/712/UZ)** - Member Departmental Committee for Dengue Eradication/Awarenes, Zoology Department, University of the Punjab, Lahore.
30. **Nov. 26, 2015** - Member of inspection team for Halls 15-19, University of the Punjab, Lahore, for (2015-16).
31. **Feb. 20, 2016 (D/203/HC)** – Focal Person of Department Hostel affairs, Zoology Department, University of the Punjab, Lahore, Pakistan.
32. **2016** – Focal Person for Main Library for BS Programme, Zoology Department, University of the Punjab, Lahore, Pakistan.
33. **Jan. 26, 2016 (D/078/R)** – Member of Committee on review of Security arrangements at educational institutions, Zoology Department, University of the Punjab, Lahore, Pakistan.
34. **Nov. 11, 2015** – Appointment as a member of the Hall Council for the year 201-16, University of the Punjab, Lahore, Pakistan.
35. **2015** – Focal Person of Department Hostel affairs, Zoology Department, University of the Punjab, Lahore, Pakistan.
36. **2015** – Member of University Admission Stall Committee, University of the Punjab, Lahore.
37. **2015** – Member of Entry Test Committee MS/M.Phil, Zoology Department, University of the Punjab, Lahore, Pakistan.
38. **2015** – Secretary BS Admission Committee, Zoology Department, University of the Punjab, Lahore, Pakistan.
39. **2015**. Member Purchase committee Zoology Department, University of the Punjab, Lahore, Pakistan.
40. **March 08, 2015** – Member Examination Monitoring Team for B.A./B.Sc. and other annual and supplementary examinations of MA/MSc., B.Com, Law, University of the Punjab, Lahore for the year 2015.
41. **2015** – Member of Special Purchase Committee for Halls of University of the Punjab, for the financial year 2015.
42. **Sep. 2015** – Focal person for hostel affairs, Zoology Department, University of the Punjab, Lahore, Pakistan.
43. **March 2015** – Member of inquiry committee Hall Council, University of the Punjab, Lahore, Pakistan.

44. **Dec. 13, 2012 to Continue** – Member/Secretary of Disciplinary Committee of the Zoology Department, University of the Punjab, Lahore.
45. **Sep. 08, 2014** – Member of Special Purchase Committee for Halls of University of the Punjab, for the financial year 2014-2015.
46. **Sep. 25, 2014** – Member of Dengue Eradication/Awareness committee, Zoology Department, University of the Punjab.
47. **Sep. 08, 2014** – Member of Special Admission Committee, Zoology Department, University of the Punjab.
48. **Aug. 07, 2014** – Incharge, Admission BS Zoology, for the academic year 2014, University of the Punjab.
49. **July 21, 2014** - Member of committee for Khalid Bin Waleed Hall, Allama Iqbal Campus, University of the Punjab, Lahore.
50. **June 11, 2014** – Member of committee for security measures in hostels of the Punjab University, Lahore.
51. **May 2, 2014** – Member of examination committee Zoology Department, University of the Punjab, Lahore, Pakistan.
52. **March 23, 2014** – Member of inquiry committee Zoology Department, University of the Punjab, Lahore, Pakistan.
53. **March 08, 2014** – Member Examination Monitoring Team for B.A./B.Sc. and other annual and supplementary examinations, University of the Punjab, Lahore.
54. **Feb. 20, 2014**. Member Purchase committee Zoology Department, University of the Punjab, Lahore, Pakistan.
55. **Feb. 17, 2014**. Member of committee for Punjab Youth Festival, Zoology Department, University of the Punjab, Lahore, Pakistan.
56. **March 10, 2014** – Member Sports Committee, Zoology Department University of the Punjab, Lahore.
57. **Dec. 17, 2013** - Member of inspection committee for checking of furniture purchased for the University Halls, University of the Punjab, Lahore.
58. **August 20, 2013** – Incharge BS Zoology Admission 2013, Zoology Department, University of the Punjab, Lahore, Pakistan.
59. **April 08, 2013** – Member Examination Monitoring Team, University of the Punjab, Lahore.
60. **March 28, 2013** – Member Security Committee for Book Fair University of the Punjab, Lahore.
61. **March 26, 2013** - Member of inspection team for Halls 15-19, University of the Punjab, Lahore.
62. **April 02, 2013** – Focal person for National Sciences, Technology and innovation policy, 2012 (Ministry of Science and Technology).
63. **March 27, 2013** – Member Sports Committee, Zoology Department University of the Punjab, Lahore.
64. **Dec. 13, 2012** – Member/Secretary of Disciplinary Committee of the Zoology Department, University of the Punjab, Lahore.
65. **Nov. 29, 2012** – Member of affiliation committee, University of the Punjab, Lahore, Pakistan.
66. **Dec. 24, 2012** – member of laptop distribution committee, Zoology Department, University of the Punjab, Lahore.
67. **Dec. 05, 2012** - Member of inspection committee for checking of furniture purchased for the University Halls, University of the Punjab, Lahore.
68. **Sep. 01, 2012** - Member of inspection team for Halls 15-19, University of the Punjab, Lahore.
69. **Sep. 09, 2012** – Member of Special Purchase Committee for Halls for the financial year 2012-2013.
70. **July 25, 2012** – Member interview committee for admission MS/M.Phil. Fall 2012, Zoology department, University of the Punjab, Lahore.
71. **July 25, 2012** – Member interview committee for admission PhD regular program, Zoology department, University of the Punjab, Lahore.

72. **June 6, 2012** – Member for inspection the B.Sc. Zoology Practical 2012 Examination Centers (Lahore region) from 6-6-12 to 12-6-12.
73. **July 11, 2012** – Member Ph. D. admission committee, Zoology department, University of the Punjab, Lahore.
74. **March 9, 2012** – Member sports committee Zoology Department, University of the Punjab, Lahore.
75. **March 8, 2012** – Nomination for Book Fair, University of the Punjab, Lahore.
76. **February 2011** – Convener M. Phil/PhD Admission Committee, Zoology Department, GC University, Faisalabad.
77. **December 14, 2010 to Jan 31, 2012** – Member Departmental Thesis Scrutiny Committee, Zoology Department, GC University, Faisalabad.
78. **September 16, 2010 to Jan 31, 2012** – Incharge Departmental Tours, Zoology Department, GC University, Faisalabad.
79. **June 07, 2010** – Member annual stock verification committee, GC University, Faisalabad.
80. **May 06, 2010** - Convener book selection committee, Zoology Department, GC University, Faisalabad.
81. **April 2010** – Convener Departmental Library Committee, Zoology Department, GC University, Faisalabad.
82. **2009** – Secretary, committee for dealing the impress money, Zoology Department, GC University, Faisalabad.
83. **2009** – Member discipline committee GC University Faisalabad.
84. **2009** – Member Publicity Committee of the 1st Convocation of GC University, Faisalabad.
85. **2009** – Member Reception Committee of the 1st Convocation of GC University, Faisalabad.
86. **2007-2008** – Member M. Sc. admission committee, Zoology department (PU).
87. **November 2006 – Jan 2008**: Member of examination inspection team, Zoology department, Punjab University.
88. **Nov 2006 – Jan 2008** – Member of examination inspection committee of Zoology department, Punjab University for the examination of M. Sc.
89. Member of the Disciplinary committee for the Hall Council, GC University, Faisalabad.

Professional Membership

1. May 05, 2017 (No. D/769/UZ) – Member of Curriculum Review Committee, Zoology department, Punjab University, Lahore.
2. Feb. 26, 2016 (No. D/198/R) – Nomination for updating information on PU website for Zoology department, Punjab University, Lahore.
3. March 11, 2014 (No. 1084/Acad.) – member, subject/specialization for departmental test instead of GAT subject in Zoology (Paleontology).
4. March 20, 2013 – Member National Curriculum Revision Committee in BS Zoology, HEC Islamabad.
5. 2009-2012 – Elected member of academic council for Assistant Professor, GC University, Faisalabad.
6. Member of the Zoological Society of Pakistan.
7. Member of the Fisheries Society of Pakistan.
8. Member of the Speers chemical Society, F. C. College, Lahore.
9. Member of Adventure Foundation Pakistan.

Life Fellowship

1. **2009** – Zoological Society of Pakistan.

Distinction

1. HEC Approved Supervisor Higher Education Commission (2008 – continue).
2. Reproductive Scientists of Pakistan, Directory No. 125

3. **March 4-6, 2019** - Chairperson, Session V, Section 6 – in the 39th Pakistan Congress of Zoology (International), Zoology Department, Islamic College University Peshawar, Pakistan.
4. **Feb 28, 2018** - Co-chairperson, Session 1, Section XII – in the 38th Pakistan Congress of Zoology (International), University of the Punjab, Lahore, Pakistan.
5. **22-09-2017** - Received amounts Rs. 12700 for publication cost from University of the Punjab, Lahore, Pakistan.
6. **22-09-2017** - Received amounts Rs. 12900 for publication cost from University of the Punjab, Lahore, Pakistan.
7. **23-08-2017**- nominated as expert member for the affiliation branch, University of the Punjab, Lahore, Pakistan.
8. **2016** - Received amounts for publication cost from University of the Punjab, Lahore, Pakistan.
9. **March 4, 2015** - Co-chairperson, Session 4, Section V – in the 35th Pakistan Congress of Zoology (International), University of Karachi.
10. **2013-2015**-Associate editor, Punjab University Journal of Zoology, University of the Punjab Lahore, Pakistan.
11. **2015**-Received amounts for publication cost from University of the Punjab, Lahore, Pakistan.
12. **2014**-Received amounts for publication cost from University of the Punjab, Lahore, Pakistan.
13. **2013**-Received amounts for publication cost from University of the Punjab, Lahore, Pakistan.
14. **2012** - Co-chairperson, Section V – Fisheries, Ecology, Wildlife, Freshwater Biology, Marine Biology, in the Pakistan Congress of Zoology (International), 32, GC University Lahore.
15. **2012**-Received amounts for publication cost from University of the Punjab, Lahore, Pakistan.
16. **2011** - Chairperson, Section V – Fisheries, Ecology, Wildlife, Freshwater Biology, Marine Biology, in the Pakistan Congress of Zoology (International), 31, University of Azad Jammu and Kashmir, Muzaffarabad.
17. **2011**-Received amounts for publication cost from University of the Punjab, Lahore, Pakistan.
18. **2011** - The discovery of the longest tusk and early bison from the Tatrot is reported by daily paper 'Deccan Herald (India)' on January 27, Yahoo News on Jan 30, India report on Jan 30, Tha Siasat daily on Jan 30.
19. **2010**-Received amounts for publication cost from University of the Punjab, Lahore, Pakistan.
20. **2008-2011**. Editor - Journal of Natural Sciences, GC University Faisalabad.
21. **2008** - HEC approved supervisor.

Invited Lectures/Discussion/Seminars/expert

1. **Jan. 13, 2019** – invited lecture/discussion on Paleozoology Outreach Event in NUST, Islamabad.
2. **Sep. 18, 2018 (No. R/2821/Dean.Sc.)** – Invited as an expert for the selection of Assistant Professor at Federal Public Service Commission office, Lahore.
3. **June 6, 2018** – Invited for group discussion at Department of Human Evolutionary Biology, Harvard University, Boston, United States of America (May 15-18, 2018).
4. **December 14, 2017** – Key speaker 'Two days 4th International Palaeontology Seminar' Zoology Department, GC University Faisalabad, Punjab, Pakistan.
5. **November 16, 2016** – Key speaker 'Two days 3rd National Palaeontology Seminar' Zoology Department, GC University Faisalabad, Punjab, Pakistan.
6. **December 03, 2015** – Key speaker 'Two days 2nd National Palaeontology Seminar' Zoology Department, GC University Faisalabad, Punjab, Pakistan.
7. **December 04, 2014** – Key speaker 'Two days 1st National Palaeontology Seminar' Zoology Department, GC University Faisalabad, Punjab, Pakistan.

8. **Feb. 3, 2014 (3-5 pm)** - Invited by French colleagues for the discussion on “Cenozoic vertebrate from Pakistan in the context of climate changes, and Indo Pakistan.

Incentive Awards

1. **2019** – Award of Performance based one increment + honorarium-Rs. 130000/- for the year 2018.
2. **2019** – Publication awards.
3. **2018** – Publication awards.
4. **2018** – Award of Performance based one increment + honorarium-Rs. 130000/- for the year 2017 (dated 11.09.18, No. D/3208/Est-I).
5. **2017** – Award of Performance based one increment + honorarium-Rs. 130000/- for the year 2016 (dated 30.08.17, D/3894/Est-I).
6. **2016** – Award of Performance based one increment + honorarium-Rs. 130000/- for the year 2015 (dated 13.07.16, D/2663/Est-I).
7. **2016** – Publication awards.
8. **2015** – Award of Performance based one increment + honorarium-Rs. 130000/- for the year 2014.
9. **2015**– Research productivity award from Pakistan Council of Science & Technology for the year 2014-2015.
10. **2015**. PhD Co supervisor honorarium Rs. 30,000, University of the Punjab, Lahore.
11. **2014** – Award of Performance based one increment + honorarium-Rs. 100000/- for the year 2013.
12. **2013** – Award of Performance based one increment + honorarium-Rs. 100000/- for the year 2012.
13. **2013** – Research productivity award (Rs. 50,000) of G-category from Pakistan Council of Science & Technology for the year 2012.
14. **2012** – Award of performance based four advanced increments, University of the Punjab, Lahore.
15. **2011**. Research productivity award (Rs. 50,000) from GC University Faisalabad.
16. **2009**. PhD Co supervisor honorarium Rs. 30,000, University of the Punjab, Lahore
17. **2007**. Ph.D. completion award (Rs. 50,000) University of the Punjab, Lahore.

Academic Awards

1. **October 10, 2019** – Poster presentation certificate in the 79th annual meeting of the Society of Vertebrate Paleontology in Brisbane, Australia from 9-12 October, 2019.
2. **November 14, 2018** – Oral presentation certificate in the 1st Conference of the Arabian Journal of Geosciences (CAJG), in Hammamet, Tunisia.
3. **July 16, 2018** – Oral presentation certificate in 5th International Palaeontological Congress, Paris, France.
4. **March 01, 2018** – Oral Presentation Certificate in 38th Pakistan Congress of Zoology (International), 27 Feb.-01 March., 2018.
5. **Feb. 28, 2017** – Oral Presentation Certificate in 37th Pakistan Congress of Zoology (International), 28 Feb.-02 March., 2017.
6. **July 15, 2016** – Oral presentation certificate in Palaeo Down Under 2 Adelaide Australia.
7. **Nov.16, 2016** – certificate of participation in 2 days 3rd National Palaeontology Seminar.
8. **March 09, 2015** – Certificate of excellence for the establishment of Dr. Abu Bakr Fossil Display & Research Centre, Zoology Department, University of the Punjab, Lahore.
9. **December 04, 2014** – Shield and certificate in ‘Two days 1st National Palaeontology Seminar’ GC University Faisalabad.
10. **September 28, 2014** – Oral presentation certificate in 4th International Palaeontological Congress, Mendoza, Argentina.

11. **March 11, 2014 (D/807/Est.I)** – Nomination for the curriculum base training program, HEC, Islamabad.
12. **Feb., 2014** – Oral Presentation Certificate in 34th Pakistan Congress of Zoology (International), 25-27 February.
13. **2013** – Shield and Oral Presentation Certificate in 33rd Pakistan Congress of Zoology (International), 02-04 April.
14. **2011** - Oral Presentation Certificate in 31st Pakistan Congress of Zoology (International), 19-21 April.
15. **2010** - Oral Presentation Certificate in 30th Pakistan Congress of Zoology (International), 02-04 March.
16. **2009** – Shield and Oral Presentation Certificate in 29th Pakistan Congress of Zoology (International), 24-26 February.
17. **2008**- Shield and Oral Presentation Certificate in 28th Pakistan Congress of Zoology (International), 18-20 March.
18. **2007**- Oral Presentation Certificate in 27th Pakistan Congress of Zoology (International), 26 Feb-1 March.
19. **2006**- Oral Presentation Certificate in 26th Pakistan Congress of Zoology (International), 4-6 April.
20. **1996**- Merit Certificate is awarded in the annual prize distribution function held on 1996 at the Govt. F.C. College Lahore.
21. **1993** – Merit certificate is awarded in the annual prize distribution function held on 22-2-93 at Govt. Islamia College Narowal.

Examiner

1. University of the Punjab, affiliated colleges, (BS 4 years program: Palaeontology).
2. Bahauddin Zakariya University (BZU) Multan, Punjab, Pakistan.
3. Government College University, Faisalabad, Punjab, Pakistan.
4. Baluchistan University, Quetta, Baluchistan, Pakistan.
5. Government College University, Lahore, Punjab, Pakistan.
6. Minhaj University Lahore.

Reviewer

1. Historical Biology (2019).
2. Environmental Earth Sciences (2019)
3. Bollettino della Società Paleontologica Italiana (02-05-16).
4. 27-08-15, letter No. 2634/D(H): member of review committee on subjects of Humanities and Technical of Punjab Curriculum and Text Book Board.
5. Zitteliana, Bayerische Staatssammlung für Paläontologie und Geologie, Germany.
6. Environmental Earth Sciences.
7. HEC's funding project on the discipline vertebrate palaeontology.
8. Journal of Himalayan Earth Sciences, University of Peshawar.
9. The Journal of Animal and Plant Sciences, University of Veterinary and Animal Sciences, Lahore.
10. Editorial member of Punjab University Journal of Zoology, University of Punjab.
11. Pakistan Journal of Agricultural Sciences, University of Agriculture, Faisalabad.

Training/Workshops

1. **June 6, 2018** – Training for measuring stratigraphic sections, the documentation of fossil localities, the use of paleomagnetic stratigraphy for dating localities, and the curation of fossil remains at Department of Human Evolutionary Biology, Harvard University, Boston, United States of America (May 15-18, 2018).
2. **Feb. 25, 2015** – Member organizing committee for 11th National Beekeeping Training Workshop, Zoology Department, University of the Punjab, Lahore (09-03-15 to 13-03-15).
3. **March 12, 2014** – Member organizing committee for 10th National Beekeeping Training Workshop, Zoology Department, University of the Punjab, Lahore (17-03-14 to 21-03-14).

4. December 22-26, 2014 – Indigenous on-Campus Training Program for Management Team, University of the Punjab in collaboration with Higher Education Commission.
5. **Jan. 23, 2014.** Training of electronic database “Institute of Electrical and Electronics Engineer”, internet Lab of Punjab University Library, Lahore.
6. **Feb. 20, 2013** – Member organizing committee for 9th National Beekeeping Training Workshop, Zoology Department, University of the Punjab, Lahore (11-03-13 to 15-03-13).
7. **2012** – Short training course ‘PC-1 Preparation’ at Management and Professional Development Department, Government of the Punjab, Lahore from 16-07-2012 to 20-07-12.
8. **March 12-16, 2012** – Member organizing committee for 8th National Beekeeping Training Workshop, Zoology Department, University of the Punjab, Lahore.
9. **2008** – One day workshop on Sharing Biodiversity Data on Internet organized by Pakistan Museum of Natural History and Global Biodiversity Information Facility (GBIF) in 21st July 2008.
10. **2007** – Five days in – service teachers training course in Museum Curation and Management on 9th to 13th January 2007 organized by Higher Education Commission, Islamabad, held in department of Zoology, GC University, Lahore.
11. **2007** - Five days Consultancy Workshop on Development of Safari Parks in Punjab to be organized by Punjab Wildlife & Parks Department held at officer mess GOR1, Lahore from 5th-10th March 2007.

Attended Seminars

1. **Oct. 2019** – The seminar on “Perissodactyls from the Siwaliks of Pakistan”, Department of Wild Life and Fisheries, University of Agriculture, Faisalabad, Punjab, Pakistan.
2. **Sep. 2018** – The seminar on “The mammalian fauna from the Pabbi Hills of Pakistan”, Zoology Department, University of the Punjab, Lahore, Pakistan.
3. **Sep. 2017** – The seminar on “The Siwalik Middle Miocene mammals from the Chinji Formation of Pakistan”, Zoology Department, University of the Punjab, Lahore, Pakistan.
4. **April 2016** – The seminar on “The Siwalik Proboscideans”, Zoology Department, University of the Punjab, Lahore, Pakistan.
5. **Aug. 2015** – The seminar on “The Siwalik Artiodactyls”, Zoology Department, University of the Punjab, Lahore, Pakistan.
6. **Feb. 3, 2014** – The first international seminar on “French Contribution to Pakistan Studies” organized by the Embassy of France in Islamabad, Pakistan.
7. **December 04-5, 2014** – Attend seminar ‘Two days 1st National Palaeontology Seminar’ GC University Faisalabad.
8. **August 20, 2014** – Attend seminar on “Democracy and Governance in Pakistan: Challenges and Opportunities” Al-Raazi Hall, Undergraduate Block, University of the Punjab, Lahore.
9. **March 21, 13** – Attend seminar on Seerat –ul-Nabi by Tariq Jamil in Faisal Auditorium University of the Punjab, Lahore.
10. **2012** – member for organizing ‘Quaid Day’ Seminar on 25-12-12.
11. **2012** – Attend a seminar ‘Balochistan-Problems and Solutions’ in Al-Razi Hall, Centre for Undergraduate Studies, University of the Punjab, Lahore on 17-04-12.

Selected Conferences/Presentations/Participations/Abstracts

1. Khan, M. A. and Asim, M., 2019. Middle Miocene bovids (Mammalia) from Potwar Plateau, northern Pakistan. 79th annual meeting of the Society of Vertebrate Paleontology in Brisbane, Australia (9-12 October), p. 129.
2. Khan, M. A. and Asim, M., 2018. Middle Miocene *Giraffokeryx* (Giraffidae) with marks of enamel hypoplasia from Dhok Bun Amir Khatoon, Punjab,

- Pakistan. Conference of the Arabian Journal of Geosciences (CAJG), in Hammamet, Tunisia, 1 (12-15 November, 2018), p. 121.
3. Khan, M. A. et al., 2018. The large mammalian fauna from the new vertebrate site of Pabbi Hills (Pleistocene), Pakistan. International Palaeontological Congress, Paris, France, 5 (9-13 July, 2018), p. 335.
 4. Khan, M. A. et al., 2018. New artiodactyl fossils from Dhok Pathan Formation of Pakistan. Pakistan Congress of Zoology (International), 38, University of the Punjab, Lahore (27 Feb.-01 March., 2018).
 5. Khan, M. A. et al., 2018. *Merycopotamus dissimilis* (Anthracotheriidae, Mammalia) from Middle Siwaliks of Punjab, Pakistan. Pakistan Congress of Zoology (International), 38, University of the Punjab, Lahore (27 Feb.-01 March., 2018).
 6. Khan, M. A. et al., 2018. *Stegolophodon* (Proboscidea, Mammalia) from Siwalik Group, Punjab, Pakistan. Pakistan Congress of Zoology (International), 38, University of the Punjab, Lahore (27 Feb.-01 March., 2018).
 7. Khan, M. A., 2017. *Deinotherium* (Proboscidea, Mammalia) from Siwaliks, Pakistan. Pakistan Congress of Zoology (International), 37, GCU, Faisalabad (28 Feb.-02 March., 2017).
 8. Khan, M. A., 2016. Tragulids (Artiodactyla, Ruminantia, Tragulidae) from the Siwaliks of Pakistan. Palaeo Down Under 2 Adelaide, 11-15 July 2016. The Geological Society of Australia.
 9. Khan, M. A. and Akhtar, M., 2015. *Hippopotamus* (Mammalia, Hippopotamidae) from the Pinjor Formation of Bhimber, Azad Kashmir, Pakistan. Pakistan Congress of Zoology (International), 35, KU, Karachi (01-04 March., 2015).
 10. Khan, M. A., Abbas, S. G., Akhtar, M., Khan, A. M., 2014. The Late Miocene bovids (Bovidae, Mammalia) from Dhok Pathan Formation of Siwaliks, Northern Pakistan. International Palaeontological Congress, Mendoza, Argentina, 4 (28-09-14 to 03-10-14), p. 735.
 11. Khan, A. M., Cerdeño, E., Akhtar, M., Khan, M. A., Siddiq, M., 2014. An account of the Upper Siwalik Rhinocerotids of Pakistan. International Palaeontological Congress, Mendoza, Argentina, 4 (28-09-14 to 03-10-14), p. 549.
 12. Dar, FA. Y., Khan, M. A., Khan, A. M. and Akhtar, M., 2014. Some new remains of Suidae (Artiodactyla, Suiformes) from Dhok Pathan Formation of Siwaliks, northern Pakistan. Pakistan Congress of Zoology (International), 34, BZU, Multan (25-27 Feb., 2014), p. 257.
 13. Babar, M. A., Khan, M. A. and Akhtar, M., 2014. Ruminant fossils (Mammalia, Artiodactyla) from Dhok Pathan Formation of Middle Siwaliks, northern Pakistan. Pakistan Congress of Zoology (International), 34, BZU, Multan (25-27 Feb., 2014), p. 257.
 14. Abbas, S. G., Khan, M. A. and Akhtar, M., 2014. Proboscideans (Vertebrata, Mammalia) from Dhok Pathan Formation of Siwaliks, northern Pakistan. Pakistan Congress of Zoology (International), 34, BZU, Multan (25-27 Feb., 2014), p. 256.
 15. Saeed, Z., Khan, A. M., Khan, M. A. and Akhtar, M., 2014. Some new fossils of *Gazella* (Artiodactyla, Ruminantia, Bovidae) from Dhok Pathan Formation of Siwaliks, northern Pakistan. Pakistan Congress of Zoology (International), 34, BZU, Multan (25-27 Feb., 2014), p. 258.
 16. Iqbal, A., Khan, A. M., Akhtar, M., Khan, M. A. Ghaffar, A. and Khursheed, H. F., 2014. *Merycopotamus medioximus* (Anthracotheriidae, Suiformes, Artiodactyla) from Middle Siwaliks of Hasnot, Pakistan. Pakistan Congress of Zoology (International), 34, BZU, Multan (25-27 Feb., 2014), p. 256.
 17. Aziz, H., Akhtar, M., Khan, M. A. and Khan, A. M., 2014. New hipparionine fossils (Perissodactyla, Equidae) from Dhok Pathan Formation of Siwaliks, northern Pakistan. Pakistan Congress of Zoology (International), 34, BZU, Multan (25-27 Feb., 2014), p. 255.
 18. Batool, A., Khan, M. A., Qureshi, N. A. and Akhtar, M., 2014. New hipparionine fossils (Perissodactyla, Equidae) from Dhok Pathan Formation of Siwaliks,

- northern Pakistan. Pakistan Congress of Zoology (International), 34, BZU, Multan (25-27 Feb., 2014), p. 255.
19. Khan, A. M., Cerdano, E., Akhtar, M., Khan, M. A. Iqbal, A. and Mubashir, 2014. New fossils of *Gaioatherium* (Rhinocerotidae, Mammalia) from the Middle Miocene of Pakistan. Pakistan Congress of Zoology (International), 34, BZU, Multan (25-27 Feb., 2014), p. 253.
 20. Rafeh, A., Akhtar, M., Khan, A. M., Khan, M. A. and Ahmad, R. M., 2014. First report of '*Procoelodonta*' (*Pasalarhinus*) *tekkayai* from Miocene of Pakistan. Pakistan Congress of Zoology (International), 34, BZU, Multan (25-27 Feb., 2014), p. 253.
 21. Aslam, M., Akbar Khan, M. and Akhtar, M., 2013. Some new Remains of the Proboscideans from the Middle Siwaliks, northern Pakistan. Pakistan Congress of Zoology (International), 33, Pakistan Museum of Natural History and PMAS Arid Agriculture University Rawalpindi (2-4 April, 2013).
 22. Mahmood, K., Akbar Khan, M. and Akhtar, M., 2013. Some New Fossils of *Giraffokeryx* (Mammalia: Cetartiodactyla: Giraffidae) from the Chinji Formation of Pakistan. Pakistan Congress of Zoology (International), 33, Pakistan Museum of Natural History and PMAS Arid Agriculture University Rawalpindi (2-4 April, 2013).
 23. Abbas, S. G., Akbar Khan, M. and Akhtar, M., 2013. *Dorcatherium minus* (Mammalia: Cetartiodactyla: Tragulidae) from Dhok Bun Amir Khatoon Chinji Formation of Pakistan. Pakistan Congress of Zoology (International), 33, Pakistan Museum of Natural History and PMAS Arid Agriculture University Rawalpindi (2-4 April, 2013).
 24. Batool, A., Akbar Khan, M. and Akhtar, M., 2013. New Fossils of Tragulids (Ruminantia: Tragulidae) from the Dhok Pathan Formation of Hasnot, Pakistan. Pakistan Congress of Zoology (International), 33, Pakistan Museum of Natural History and PMAS Arid Agriculture University Rawalpindi (2-4 April, 2013).
 25. Siddiq, M. K., Akbar Khan, M. and Akhtar, M., 2013. Some New Remains of Bovines from Sardhok Pleistocene of Pakistan. Pakistan Congress of Zoology (International), 33, Pakistan Museum of Natural History and PMAS Arid Agriculture University Rawalpindi (2-4 April, 2013).
 26. Babar, M. A., Akbar Khan, M. and Akhtar, M., 2013. *Gomphotherium* (Proboscidea, Mammalia) from the Middle Miocene Lava of the Lower Siwaliks, Pakistan. Pakistan Congress of Zoology (International), 33, Pakistan Museum of Natural History and PMAS Arid Agriculture University Rawalpindi (2-4 April, 2013).
 27. Nawaz, M. K., Akbar Khan, M. and Akhtar, M., 2013. Ruminant Fossils from Dhok Bun Amir Khatoon of the Lower Siwaliks, Punjab, Pakistan. Pakistan Congress of Zoology (International), 33, Pakistan Museum of Natural History and PMAS Arid Agriculture University Rawalpindi (2-4 April, 2013).
 28. Akbar Khan, M., 20-22 March, 2012. Attended the three days Aquaponics Training Seminar at Zoology Department, PU, Lahore, under the collaboration of Fishgruen (Switzerland).
 29. Akbar Khan, M., 6-8 March, 2012. Actively participated (and organize the students participation) in the Pakistan Congress of Zoology (International), 32, GC University Lahore.
 30. Akbar Khan, M., Akhtar, M., Khan, A. M., Ikram, T., 2011. *Dorcatherium* from the Hasnot of the Middle Siwaliks, northern Pakistan. Oral Presentation in the Pakistan Congress of Zoology (International), 31, University of Azad Jammu and Kashmir, Muzaffarabad.
 31. Khan, A. A., Akbar Khan, M. and Akhtar, M., 2010. New Remains of *Gaioatherium vidali* from Upper Chinji Formation of the Siwaliks, Pakistan. Oral Presentation in the Pakistan Congress of Zoology (International), 30, University of Agricultural, Faisalabad, Pakistan.
 32. Akbar Khan, M. and Islam, A. M., 2009. Taxonomic study of Tertiary bovids from the Padri village, Dhok Pathan Formation, district Jhelum, Punjab, Pakistan. Oral

- Presentation in the Pakistan Congress of Zoology (International), 29, University of Sind, Jamshoro, Pakistan.
33. Naeem, L. and Akbar Khan, M., 2009. Study of Hipparions from the Nagri Formation of Pakistan. Oral Presentation in the Pakistan Congress of Zoology (International), 29, University of Sind, Jamshoro, Pakistan.
 34. Ali, Z., Akhtar, M., Akbar Khan, M., 2005. Ecological Restoration needed at a heavily degraded ecosystem, a case study from Pakistan. Oral presentation in “17th Conference of the Society for Ecological Restoration International, 4th European Conference on Ecological Restoration. 12-18 September, Zargoza, Spain, Europe.
 35. Akbar Khan, M., and Akhtar, M. 2008. A new Fossil Pocket in the Neogene of Lava. Oral Presentation in the Pakistan Congress of Zoology (International), 28, GC University, Faisalabad, Pakistan.
 36. Akbar Khan, M., Sadaqat, U., Khan, A. M. and Akhtar, M. 2008. *Chilotherium intermedium* from the Dhok Pathan Formation of the Siwaliks. Oral Presentation in the Pakistan Congress of Zoology (International), 28, GC University, Faisalabad, Pakistan.
 37. Akbar Khan, M., Khan, A. M., Akhtar, M. and Ali, M. 2008. *Chilotherium intermedium* from the Nagri Formation of the Siwaliks. Oral Presentation in the Pakistan Congress of Zoology (International), 28, GC University, Faisalabad, Pakistan.
 38. Akbar Khan, M., Khan, A. M., Akhtar, M., Hayyat, M. U., and Majeed, A. A. 2008. Rhinoceroses from the Dhok Pathan Formation of the Siwaliks. Oral Presentation in the Pakistan Congress of Zoology (International), 28, GC University, Faisalabad, Pakistan.
 39. Khan, A. A., Akbar Khan, M., Akhtar, M. and Chayyan A. 2008. *Aceratherium perimense* from the Middle Siwaliks of the Dhok Pathan. Oral Presentation in the Pakistan Congress of Zoology (International), 28, GC University, Faisalabad, Pakistan.
 40. Ali, Z., Akbar Khan, M., Akhtar, M., 2005. Climate change Influence on Avian Diversity of Wetlands, A study with Management Options on a Ramsar site from Pakistan. Oral presentation in “Global indigenous meeting on climate change and its effects on indigenous peoples and the role of Traditional Ecological Knowledge (TEK)” 12-18 September, Zargoza, Spain, Europe.
 41. Akbar Khan, M., Ali, Z., Akhtar, M., 2005. Extinct elephants from Upper Siwaliks of Pakistan, with a new discovery of *Gompothorium* tusk from Tatrot Locality. Oral presentation in the International Congress, The World of Elephants, Hot Springs, South Dakota, 2, USA.
 42. Akbar Khan, M., Iliopoulos, G., Ghaffar, A., and Akhtar, M., 2005. Paleobiogeography of Siwaliks and Mediterranean Neogene Ruminants. Oral presentation in Congress R.C.M.N.S., 12, Vienna, Austria.

Palaeontological - Geological Work Experience

1. Mammal taxonomy, anatomy and morphometrics. Previous work on ruminants in general and elephants.
2. Taphonomy. Collection and elaboration of taphonomic data.
3. Experience in the conduction of excavations for the collection of vertebrate material, as well as in the collection of taphonomic data.
4. Experience in the curation of vertebrate fossil specimens, cataloguing and creation of Excel databases.
5. Sedimentology, Stratigraphy.
6. Preparation/consolidation of fossil bone: Experience in the use of excavation tools and drills and a number of different consolidants.

Fossil Preparation/Field work/Study tour

1. 2019. Various Study tour to the Siwalik Hills of Pakistan.
2. 2018. Various Study tour to the Siwalik Hills of Pakistan.
3. 2017. Various Study tour to the Siwalik Hills of Pakistan.

4. **2016.** Various Study tour to the Siwalik Hills of Pakistan.
5. **2015.** Various Study tour to the Siwalik Hills of Pakistan.
6. **30 Sep., 2014.** Study tour to Andes Hills, Mendoza, Argentina, 4 (28-09-14 to 03-10-14), p. 735.
7. **May 15-19, 2014** – Study tour to Islamabad, Murree, Khanuspur and Ayubia.
8. **Feb. 24/ March 01, 2014** – Study tour to Multan & Bahawalpur Zoo & Lal Suhanra National Park.
9. **Feb. 04-06, 2014** – Field tour for the study of geological rocks of Margallah and Muree Hills, Islamabad, northern Pakistan.
10. **Dec. 06-08, 2013** – Field tour for Fossil collection from Jhelum (Dina), Mirpur and Bhimber districts, northern Pakistan.
11. **Nov. 23, 2013** – Field tour for Fossil collection from Dina, Jhelum district.
12. **Nov. 2, 2013** – Field tour for Fossil collection from Dina, Jhelum district.
13. **April 1-7, 2013** – Study tour to Islamabad and Khanuspur.
14. **Dec. 13, 2012** – Fossil collection from Chinji, Chakwal district.
15. **Dec. 07, 2012** – Fossil collection from Kallar Kahar, Chakwal district.
16. **Nov. 12, 2012** – Fossil collection from Nagri, Chakwal district.
17. **Oct. 05, 2012** – Fossil collection from Dhok Bun Amir Khatoon, Chakwal district.
18. **Sep. 21, 2012** – Fossil collection from Sardhok, Gujrat district.
19. **2011** – Fossil collection from the Chakwal, Jhelum and Attock districts, Pakistan and Mir Pur district, Azad Kashmir.
20. **2010** – Fossil collection from the Chakwal, Jhelum and Attock districts.
21. **2009** – Fossil collection from the Chakwal, Jhelum and Attock districts.
22. **2008** – Fossil collection from the Chakwal, Jhelum and Attock districts.
23. **2007** – Fossil collection from the Chakwal, Jhelum and Attock districts.
24. **2006** – Fossil collection from the Chakwal, Jhelum and Attock districts.
25. **2005** – Fossil collection from the Chakwal, Jhelum and Attock districts.
26. **2003 - 2004:** Honorary Research Assistant – Conducted excavations in the locality of Hasnot, Tatrot.
27. **1998 - 2004:** Participation in the excavations that the vertebrate group of the Zoology Department (University of the Punjab) conducted in the Siwalik localities of Pakistan.

RESEARCH WORK

Ph.D. projects completed under my SUPERVISION

1. Muhammad Hanif. Perissodactyla (Mammalia) from the Middle Siwaliks of Potwar Plateau, Pakistan (University of Agriculture, Faisalabad, Session 2015). Degree awarded in 2019.
2. Sayyed Ghyour Abbas. Taxonomic studies on new remains of the Siwalik proboscideans from northern Pakistan (Punjab University, Session 2012). Degree awarded in 2018.
3. Muhammad Adeeb Babar. Taxonomic studies of Late Miocene artiodactyls (Mammalia) from northern Pakistan (Punjab University, Session 2012-17). Degree awarded in 2017.
4. Khalid Siddiq. Taxonomic studies of mammalian remains from the Siwalik Hills of Sardhok, Punjab, Pakistan (Punjab University, Session 2011-14). Degree awarded in 2015.
5. Arifa Batool. Tertiary artiodactyls from the Hasnot of the district Jhelum, northern Pakistan (Govt. College University Faisalabad, Session 2009-14). Degree awarded in 2014.

6. Tasneem Ikram. Dental Morphological Studies of True Ungulates from the Type Locality of Nagri Formation, Punjab, Pakistan (Punjab University, Session 2005). Degree awarded in 2011.
7. Mehboob Iqbal. Taxonomy and Dental Morphological Studies on Artiodactyls from the Dhok Pathan, Type Locality, Punjab, Pakistan (Punjab University, Session 2005). Degree awarded in 2010.

Ph.D. project going on under my SUPERVISION

1. Muhammad Asim. New remains of Middle Miocene artiodactyls from Chakwal, Punjab, Pakistan (Punjab University, session 2013).
2. Muhammad Khalil Nawaz. New Remains of Mammals from Chabbar Syedan Chinji Formation of Jhelum, Pakistan (Punjab University, session 2013).
3. Fatima Yousuf Dar. New mammalian remains from Pabbi Hills of Upper Siwalik, Pakistan (Punjab University, session 2014).
4. Asra Ghous. New Mammalian Fossils from Chinji Formation (Siwalik Group) of Kanhatti, Chakwal, Punjab, Pakistan (Punjab University, session 2015).
5. Khalid Mahmood. Carnivora (Mammalia) from the Siwaliks of Pakistan (Punjab University, session 2015).

Ph.D. theses evaluated as an EXTERNAL EXAMINER

1. Muhammad Usman Ali. Effect of organic acid blend and prebiotic on growth performance, gut histomorphology, tibia bone characteristics, reactive oxygen species, microbial account and expression of HSP70 in heat stressed broilers (University of Veterinary & Animal Sciences, Lahore, session, 2018).

M. Phil/MS theses completed under my SUPERVISION

1. Sadaqat Ali, 2008-10 (GCUF, Zoology Department). Taxonomic study of the Tertiary Hipparionine in the Dhok Pathan Formation of the Middle Siwaliks, Punjab, Pakistan.
2. Muhammad Javed Iqbal, 2008-10 (GCUF, Zoology Department). Taxonomic study of the Tertiary Bovids in the Dhok Pathan Formation of the Middle Siwaliks, Punjab, Pakistan.
3. Sammia Farheen, 2009-11 (GCUF, Zoology Department). *Giraffokeryx* (Mammalian, Giraffidae) remains from the Lower Siwaliks of the Dhok Bun Amir Khatoon, northern Pakistan.
4. Sobia Noreen, 2009-11 (GCUF, Zoology Department). *Rhinoceros* fossils from the middle Miocene of Lava of the Lower Siwaliks, northern Pakistan.
5. Muhammad Khalil Nawaz, 2009-11 (GCUF, Zoology Department). Ruminant fossils from the Dhok Bun Amir Khatoon (Lower Siwaliks), Punjab, Pakistan.
6. Sayyed Ghyour Abbas 2009-11 (GCUF, Zoology Department). New bovid remains from the Dhok Pathan Formation (Middle Siwaliks) of the district Chakwal, Punjab, Pakistan.
7. Muhammad Asim, 2011-13 (Punjab University). Tragulids (Ruminantia, Tragulide) from the Middle Siwaliks of Pakistan.
8. Rabia Mumtaz, 2011-2013 (Punjab University). Boselaphines (Bovidae, Boselaphini) from the Late Miocene Padri of northern Pakistan.
9. Fatima Yousuf Dar, 2012-2014 (Punjab University). Some New remains of Suidae (Artiodactyla, suiformes) from the Dhok Pathan Formation of the Siwaliks, Northern Pakistan.
10. Ms. Bushra Khalid Ch., 2013-2015 (University of Azad Jammu & Kashmir). Study on new mammalian remain from the Upper Siwaliks of Bhimber Azad Kashmir (Co-supervisor).
11. Arslan Lodhi, 2013-2015 (Punjab University). New bovid (Bovidae, Mammalia) remains from Dhok Pathan Formation of Chakwal, Punjab, Pakistan.
12. Sabah Kiran, 2013-2016 (Punjab University). New tragulids (Tragulidae) remains from Chinji Formation of Dhok Bun Amir Khatoon Punjab Pakistan.

13. Huma Zahra, 2014-16 (Punjab University). New remains of Perissodactyla from Upper Siwaliks of Punjab, Pakistan.
14. Humaira Amanat, 2014-16 (Punjab University). Bovid fossils from the newly discovered locality of Upper Siwaliks, Punjab, Pakistan.
15. Zunaira Javaid, 2014-16 (Punjab University). New fossils of large mammals from Upper Siwaliks, Punjab, Pakistan.
16. Mariam Zaheer, 2014-16 (Punjab University). Some new fossils of bovids (Bovidae, Mammalia) from the Dhok Pathan Formation of the Siwaliks.
17. Asim Kamran, 2015-17 (Punjab University). New fossils of mammals from Tatrot type locality, Jhelum, Punjab, Pakistan.
18. Asifa Abbas, 2015-17 (Punjab University). Middle Miocene Bovidae from Dhok Bun Amir Khatoon, Chakwal, Punjab, Pakistan.
19. Badr un Nisa Khan, 2015-17 (Punjab University). Some new remains of proboscideans from the Siwaliks of northern Pakistan.
20. Qurat ul Ain, 2015-17 (Punjab University). New fossils of Artiodactyla from Lower Siwalik Subgroup of Chakwal, Punjab, Pakistan.
21. Anum Zahid, 2016-18 (SE) (Punjab University). New bovid remains from Tatrot Formation, Jhelum, Pakistan.
22. Ifrah Munwar, 2016-18 (SM) (Punjab University). New remains of Artiodactyla (Mammalia) from Dhok Pathan Formation of Padhri, Jhelum, Pakistan.
23. Rabia Shahid, 2016-18 (SM) (Punjab University). New remains of Rhinocerotidae from Lower Siwalik Subgroup, Pakistan.
24. Huma Irshad, 2016-18 (SM) (Punjab University). Morphometric and taxonomic studies of new remains of bovids from Nagri Formation of Chakwal, Pakistan.
25. Sumail Ashfaq, 2016-18 (M) (Punjab University). New fossils of perissodactyls (Mammalia) from Nagri type locality of Siwaliks, Punjab, Pakistan.
26. Asma Iqbal, 2016-18 (SE) (Punjab University). New mammalian remains from Dhok Pathan Formation (Middle Siwaliks) of district Jhelum, Pakistan.
27. Abdul Rehman Anees, 2015-18 (IS) (Punjab University). New remains of Bovinae (Bovidae, Mammalia) from Sardhok, Upper Siwaliks of Pakistan.
28. Ayesha Riaz, 2016-18 (E) (Punjab University). Fossil mammals from Tatrot type locality (Tatrot Formation), Upper Siwaliks, Jhelum, Pakistan.
29. Amina Tufail, 2016-18 (E) (Punjab University). New collection of the Late Miocene Siwalik suids from Siwaliks, Pakistan.
30. Maheen Khalid, 2016-18 (E) (Punjab University). New fossil remains of bovids (Bovidae, Mammalia) from Nagri type locality of Punjab, Pakistan.
31. Iftikhar Ahmad, 2016-18 (E) (Punjab University). Mammalian fossils from Litra Formation, D.G. Khan, Punjab, Pakistan.
32. Muhammad Adil, 2017-19 (FS) (Punjab University). *Choerolophodon* (Proboscidean) from the Siwaliks, Punjab, Pakistan.
33. Ammar Ali, 2017-19 (FS) (Punjab University). Late Miocene Mammals from Dera Ghazi Khan, Punjab, Pakistan.
34. Rafia Anjum, 2016-19 (IS) (Punjab University). Taxonomic studies of newly remains from Tatrot Formation of Siwaliks, Pakistan.
35. Samina Iqbal, 2016-19 (IS) (Punjab University). Taxonomic studies of newly recovered bovid remains from Nagri Formation of Siwaliks, Pakistan.

M. Phil. theses evaluated as an EXTERNAL EXAMINER

36. Ms. Nosheen Malik. Lower dentitions of *Chilotherium intermedium* from the Nagri, type locality, Pakistan (Punjab University, session 2006).
37. Ms. Maryam Afghani. *Aceratherium perimens* from the Tertiary Hills of the Dhokpathan formation, Pakistan (Punjab University, session 2006).
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1. Madiha Malik, 2006- 08 (GCUF, Zoology Department). Studies of Some Mammalian Fossils from the Chinji Formation of the Lower Siwaliks, Punjab, Pakistan.
2. Sobia Shehzad, 2006-08 (GCUF, Zoology Department). Dental Morphological Studies of girrafids from the Lehri, district Jhelum, Pakistan.
3. Allah Rakha, 2006-08 (GCUF, Zoology Department). Dental Morphology of the Siwalik *Gazella*.
4. Faiza Manzoor, 2007- 09 (GCUF, Zoology Department). Taxonomic Study of Hipparion from the Dhok Pathan Outcrops of the Middle Siwaliks, Pakistan.
5. Hina, 2007-09 (GCUF, Zoology Department). Taxonomic Study of the Tragulids from the Padhri Outcrops of the Middle Siwaliks, Pakistan.
6. Shakila Naseem, 2008-10 (GCUF, Zoology Department). Taxonomic study of some Bovid remains from the Tatrot Formation of the Upper Siwaliks, Pakistan.
7. Ammara Irum, 2008-10 (GCUF, Zoology Department). Taxonomic Study of Giraffid Fossils from the Dhok Pathan Formation of the Middle Siwaliks, Pakistan.
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10. Fozia Tabassum, 2008-10 (GCUF, Zoology Department). Taxonomic Study of Some Bovid Fossils from the Pinjor Formation of the Upper Siwaliks, Pakistan.
11. Saima Nazir, 2009-11 (GCUF, Zoology Department). Taxonomic Study of new remains of boselaphines from the Chinji Formation of the Lower Siwaliks, Pakistan.
12. Hafsa Yaqoob, 2009-11 (GCUF, Zoology Department). Taxonomic Study of new remains of bovids from the Chinji Formation of the Lower Siwaliks, Pakistan.
13. Muhammad Mubashar, 2009-11 (GCUF, Zoology Department). New mammalian remains from the Chinji Formation of Lava, district Chakwal, Pakistan.
14. Rabia Ansari, 2012-14 (Punjab University). A taxonomic Study on *Sivillhippus theobaldi* from the Middle Siwaliks of Pakistan, District Chakwal, Punjab, Pakistan.
15. Amina Khalid, 2013-15 (Punjab University). Taxonomy of late Miocene bovids (Bovidae, Mammalia) of Padhri, district Jhelum, Punjab, Pakistan.
16. Fouzia Safdar, 2014-16 (Punjab University). New remains of mammals from Late Miocene Hasnot of Potwar Plateau, Punjab, Pakistan.
17. Attia Arif, 2015-17 (Punjab University). Taxonomic Study of the New Remains of Mammals from the Middle Miocene of Bhilomar, Punjab, Pakistan.
18. Kiswar Sultana, 2016-18 (Punjab University). New fossils of *Gazella* from Middle Miocene of Siwaliks, Pakistan.
19. Maham Arif, 2017-19 (Punjab University). New fossils from Nagri type locality, Chakwal, Pakistan.

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20. Amna, 2008-09. Studies on Fossil *Hipparion* from Locality of Dhok Pathan, Punjab, Pakistan (Punjab University).
21. Muhammad Atiq, 2009-10. Dental Morphological studies of the Siwalik Tragulids (Nagri) (Punjab University).

22. Aysesha, 2008. Rhinoceroses from the Middle Siwaliks, Pakistan (Punjab University).

B.S. theses written under my SUPERVISION

23. Ayesha M Islam, 2004-2008 (GCUF, Zoology Department). Taxonomic Study of Tertiary Bovids from the Padhri Village, Dhok Pathan Formation, District Jhelum, Punjab, Pakistan.
24. Lubna Naseem, 2004-2008 (GCUF, Zoology Department). Study of Hipparions from the Nagri Formation of Pakistan.
25. Tuba Noor, 2005-2009 (GCUF, Zoology Department). Taxonomic Study of Gazelle from the Tertiary Rocks of Padhri (Middle Siwaliks), Pakistan.
26. Sitwat Shahbaz, 2007-11 (GCUF, Zoology Department). *Giraffokeryx punjabiensis* from the Chinji Formation of the district Chakwal, northern Pakistan.
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28. Nighat Sultana, Roll No. 1205. Some new fossils of mammals from the Chinji Formation of Chakwal, northern Pakistan.
29. Madeeha Jamil, 2009-13 (Punjab University, Zoology Department). Taxonomic study of the new remains of cervids from the Tatrot Formation of Upper Siwaliks of northern Pakistan.
30. Rohma Khan, 2011-15 (Punjab University, Zoology Department). New Mammalian Remains from the Dhok Pathan Formation of the Chakwal District, Punjab, Pakistan.
31. Hafiza Saman Akram, 2012-16 (Punjab University, Zoology Department). New Fossils of *Pachyportax* (Bovidae, Mammalia) from Middle Siwaliks, Punjab, Pakistan.
32. Saba Naz, 2012-2016 (Punjab University, Zoology Department). New fossils of Bovids (Bovidae, Mammalia) from Middle Siwaliks, Punjab, Pakistan.
33. Noureen Hameed, 2013-2017 (Punjab University, Zoology Department). New fossils of ungulates from Dhok Bun Ameer Khatoon, Chakwal, Punjab, Pakistan.
34. Hafiza Rafia Zaman, 2014-18 (Punjab University). Some bovid remains of Padhri, Jhelum, Punjab, Pakistan.
35. Zainab Anwar, 2015-19 (Punjab University, Zoology Department). New suid remains from Hasnot, Jhelum, Punjab, Pakistan.

B.S. theses evaluated as an EXTERNAL EXAMINER

36. Ms. Khadija Sarwar, 2007-11. *Rhinoceros sivalensis* from the Upper Siwaliks, Pakistan (Punjab University).

PUBLICATIONS

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