

## **FARHAT RASS MASOOD (Dr.)**

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# **CURRICULUM VITAE**

### **PERSONAL**

**Name** Farhat Rass Masood (Dr.)  
**Husband's Name** Khan Rass Masood (Dr.)  
**Marital Status** Married  
**Nationality** Pakistani  
**Domicile** Lahore (Punjab)  
**Mailing Address** 89, Upper Mall Scheme, Lahore (Pakistan).  
**Contact No.** +9242-35776207 (Home)  
0300-8003339 (Cell)

**Present Position:** **Assistant Professor (B.S)**  
Institute of Botany  
University of the Punjab  
Lahore - Pakistan

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[iqbal\\_farhat@hotmail.com](mailto:iqbal_farhat@hotmail.com)

### **SERVICE RECORD**

**(A) September 2003 – May 2005** **Lecturer in Botany**  
Department of Botany  
Lahore College for Women University  
Lahore (Pakistan)

**(B) June 2005 – August 2007:** **Assistant Professor (HEC Sponsored Tenure Track)**  
Department of Botany  
Lahore College for Women University  
Lahore (Pakistan)

- (C) August 2007 – June 2013:**      **Assistant Professor**  
Department of Biological Sciences,  
Forman Christian College  
(A Chartered University)  
Lahore, Pakistan
- (D) July 2013 – May 2023:**      **Assistant Professor (HEC Sponsored  
Tenure Track)**  
Institute of Botany  
University of the Punjab  
Lahore – Pakistan
- (E) May 2023 – Todate**      **Assistant Professor (B.S)**  
Institute of Botany  
University of the Punjab  
Lahore - Pakistan

## **ACADEMIC**

2004.      □ ***Ph.D. Botany (Mid Triassic Stratigraphical Palynology)***  
University of the Punjab, Lahore, Pakistan.
1995.      □ ***M.Sc. Botany***  
University of the Punjab, Lahore, Pakistan.
1992.      □ ***B.Sc. (Botany, Zoology, Chemistry)***  
University of the Punjab, Lahore, Pakistan.
1989.      □ ***F.Sc. (Pre - Medical)***  
Queen Mary College, Lahore, Pakistan.
1986.      □ ***Matriculation (Science)***  
Govt. Girls High School, Shahdara Town,  
Lahore, Pakistan.

### ***Ph.D DESERTATION TITLE:***

Palynology of the Middle Triassic (Nammal Gorge) Strata, Western Salt Range, Pakistan, under the supervision of Dr. Khan Rass Masood, Professor, Department of Botany, University of the Punjab, Lahore (Pakistan).

### ***POST-DOCTORAL FULBRIGHT FELLOWSHIP (2011-2012)***

Worked at Department of Biological Sciences, University of South Alabama,  
Mobile, Alabama, USA.

## FIELD OF SPECIALIZATION

- ▶ ***Micropalaeontology***  
(Palaeopalynology)

## PROFESSIONAL COURSES

- 05.01.1998 – 18.08.1998. ▶ ***Geotectonics and Tectonics of Pakistan***  
Course arranged by Institute of Geology, University of the Punjab, Lahore, Pakistan.
- 26 Dec. 1999 – 02 Jan. 2000. ▶ ***Landslides: Identification, Analysis and Remediation***  
Course arranged by the Kent State University, Ohio, USA, and Institute of Geology, University of the Punjab, Lahore, Pakistan under the TOKTEN / UNDP programme.
- 20 March 2001 - 22 March 2001. ▶ ***Seismotectonics of Pakistan***  
Course arranged by Post Graduate Centre for Earth Sciences, University of the Punjab, Lahore, Pakistan.
- 29 March 2001 - 03 April 2001. ▶ ***Isotope Geology***  
Course arranged by the Geological Survey of Pakistan and the Institute of Geology, University of the Punjab, Lahore, Pakistan.
- 21 May, 2001 - 23 May 2001. ▶ ***Tectonics of Pakistan and Environmental Problems of Azad Kashmir and Pakistan.***  
Course arranged by Institute of Geology, University of Azad Jammu and Kashmir, Muzaffarabad.
- 08 Jan. 2005 – 26 Feb. 2005 ▶ ***Experimental Techniques and Research Methodologies.***  
Course arranged by the Lahore College for Women University, Lahore.
- 11 July 2005 – 30 July 2005 ▶ ***Three Weeks Computer Training Course under Faculty Development Programme by Higher Education Commission.***  
Course arranged by the Information Technology Department, Lahore College for Women University, Lahore.
- 30 April 2009 ▶ ***Introducing Values / Ethics in Teaching Course Work and in Student Learning***  
Forman Christian College (A Chartered University), Lahore.
- 12 May 2009 ▶ ***Spoken English***

Forman Christian College (A Chartered University),  
Lahore.

- 23 August 2017 – 25 August 2017 ► **Three day Training of Trainers on Humanity, Altruism and Citizenship in Pakistan**  
Jointly organized by Ministry of Human Rights and University of the Punjab, Lahore.
- 14 September 2017 ► **Training Session of Focal Persons**  
Training arranged by Career Counseling and Placement Centre, University of the Punjab.
- 11 August, 2020 ► **ProQuest Ebook Central Advanced Training,**  
Proquest in Partnership with Higher Education Commission, Pakistan.
- 13 August, 2020 ► **ProQuest Databases Advanced Training Webinar**  
Proquest in Partnership with Higher Education Commission, Pakistan.
- 25 February, 2021 ► **Learn from a Cell Press Editor: How to publish in and optimize resources for ground breaking journals** by Dr. S.W. Cranford at Elsevier
- 01 March, 2021 ► **Virtual Geology Field Trips in the Himalaya and the Dharwar Craton – How Geofacets Supports Geoscience Research and Education?**, Organized by Elsevier.
- 05 April, 2021 ► **How to easily Navigate through Springer Nature Platform, Pakistan,** Organized by Springer Nature.
- 22 April, 2021 ► **International Seminar on Earth Day,** College of Earth and Environmental Sciences, University of the Punjab, Lahore.
- 08 June, 2022 ► **Incorporating IEEE Xplore resources into your teaching: A dedicated session for lecturers**

## **SCHOLASTIC ACHIEVEMENTS**

- Jul. 95. Roll of Honor in M.Sc., Forman Christian College, Lahore.
- Nov. 2000. Certificate awarded in recognition of services rendered during Seventh Conference of Plant Scientists held at University of the Punjab, Lahore, Pakistan.

## COMPUTER SKILLS

- ▶ Knowledge and work experience of the softwares  
DOS Lotus123 F/W M.S.Word  
M.S.Excel M.S.Word (DOS) M.S.Access  
Havard Graphics Windows 95/98/2000/NT/xp  
Power Point
- ▶ Knowledge and work experience of Internet & E-mail.

## FIELD EXCURSIONS

Jul. 1993.	Field Excursion across the Lesser Himalayas, Pakistan.
Jan. 94, 97, 2000.	Field Excursion across the Western Salt Range, Pakistan.
Dec. 95; March 98, 2000.	Field Excursion across the Eastern Salt Range, Pakistan.
March 97 & 98.	Field Excursion across the Harappa, Pakistan.
May 2001.	Field Excursion across the Himalaya through Kaghan Valley, Pakistan. Excursion led by Prof. Dr. Munir Ghazanfar Institute of Geology, University of the Punjab and Prof. Dr. Mirza Shahid Baig Director, Institute of Geology, University of Azad Kashmir.
Jan. 2002.	Field Excursion across the Western Salt Range, Pakistan.
Feb. 2003.	Field Excursion across the Western Salt Range, Pakistan.
Feb. 2004.	Field Excursion across the Western Salt Range, Pakistan.
March 2008.	Field Excursion across the Western Salt Range, Pakistan.
Feb. 2011	Field Excursion across the Western Salt Range, Pakistan.
March 2014	Field Excursion across the Western Salt Range, Pakistan.
April 2014	Dek Nala and Shekhupura Industrial Area, Pakistan.
May 2015	Field Excursion across the Khanspur and adjoining areas, Murree, Pakistan.

## TEACHING EXPERIENCE

I have been involved in teaching and conducting practicals of various classes pertaining to B.Sc. (Hons), B.S., M.Sc I, M.Sc. II (Special paper), M.Phil, M.S., and Ph.D course work at the **University of the Punjab**, Lahore.

The details are as under:

<b>Course Title</b>	<b>Class</b>
1. Advanced Palaeopalynology	Ph.D
2. Applied Palaeopalynology	M.Sc. II
3. Biology and Evolution of Pteridophytes	M.Phil
4. Comp. Morphology of Vascular Plants and Economic Botany	M.Sc. I
5. Morphology of Plants-1 (Bot.1105)	B.Sc (Hons)
6. Evolutionary Biology of Vascular Cryptogams	M.Sc. I
7. Evolutionary Biology of Spermatophytes	M.Sc. II
8. Evolutionary Trends in Tracheophytes	B.S
9. Palynology (Advance Course)	B.S
10. Evolutionary Trends among Vascular Cryptogams	B.S
11. Evolutionary Trends among Spermatophytes	B.S
12. Changing Climate and Vegetation	M.S/M.Phil /Ph.D
13. Great Plant Extinction Episodes	Ph.D

**The courses taught at Lahore College for Women University are as under:**

<b>Course Title</b>	<b>Class</b>
1. Water Logging and Soil Salinity	M.Sc. II
2. Plant Ecology	B.Sc (Hons)-III
3. Plant Ecology and Plant Physiology	B.Sc (Hons)- I
4. Diversity of Plants-I	B.Sc (Hons)-I
5. Diversity of Plants-II	B.Sc (Hons)-I

The courses taught at Forman Christian College (A Chartered University) are as under:

	<b>Course Title</b>	<b>Class</b>
1.	Mycology-1	M.Sc. I
2.	Mycology-2	M.Sc. I
3.	Introduction to Environmental Science	B.S.
4.	Palaeopalynology	B.S.
5.	Life on Earth	B.S.
6.	Climate: Past, Present and Future	B.S.
7.	Man and Environment	B.S.
8.	Plant Architecture through Space and Time	B.S.

## **Research Supervision**

### **A. M.Sc Thesis**

- 1. “Preliminary Palynological Analysis of Chhidru Formation (Lower Half) Western Salt Range, Pakistan”.**  
Lahore College for Women University, Lahore.  
**Afsheen Khalid** Roll No.: 2721  
Session: 2002-2004
- 2. Palynology of Early Glacial Deposits (100m-104m), Western Salt Range, Pakistan.**  
Forman Christian College (A Chartered University), Lahore, Pakistan.  
**Ahmad Hassan** 2006-2008
- 3. Palynological Characterization of Some Samples From Datta Formation, Salt Range, Pakistan.**  
Forman Christian College (A Chartered University), Lahore, Pakistan.  
**Nazish Yousaf** Roll # 09-27108  
Session 2007-2009
- 4. Preliminary Palynological Analysis of some Middle Triassic Shales from Western Salt Range, Pakistan.**  
Forman Christian College (A Chartered University), Lahore, Pakistan.  
**Farhat Iqbal** Roll No. 09-27107  
Session 2007-2009
- 5. Palynological Analysis of some Carbonaceous Shales of Early Triassic (Mianwali Formation), Western Salt Range, Pakistan.**  
Department of Botany, University of the Punjab, Lahore-Pakistan.

**Tabinda Ilyas** Roll No. 07

Session 2013-2014

**6. Palynology of Carbonaceous Shales from Warchha Formation, Salt Range, Pakistan.**

Department of Botany, University of the Punjab, Lahore-Pakistan.

**Faryal Khalid** Roll No. 08

Session 2014-2015

**7. Palynological investigation of Carbonaceous Shales from Tobra Formation, Salt Range, Pakistan.**

Department of Botany, University of the Punjab, Lahore-Pakistan.

**Horeen Arshad** Roll No. 38

Session 2014-2015

**8. Miospore Analysis of Early Jurassic Shales from Kishore Range, Pakistan.**

Department of Botany, University of the Punjab, Lahore-Pakistan.

**Rida** Roll No. 25

Session: 2015-2016

**9. Early Jurassic Vegetational Analysis based on Palynological data from Kishore Range, Pakistan.**

Department of Botany, University of the Punjab, Lahore-Pakistan.

**Arooj Sehar** Roll No. 28

Session: 2015-2016

**10. Early Triassic Plant Microfossils from Salt Range, Pakistan.**

Department of Botany, University of the Punjab, Lahore-Pakistan.

**Samia Rahman Khan** M 15– 19

Session: 2016-2017

**11. Palynology of Late Permian Strata, Salt Range, Pakistan.**

Department of Botany, University of the Punjab, Lahore-Pakistan.

**Amina Chishti** M15 – 21

Session: 2016-2017

**12. Palynological investigation of some Middle Triassic shales and sandstones, Western Salt Range, Pakistan.**

Department of Botany, University of the Punjab, Lahore-Pakistan.

**Atika Noor** Roll No.: M16-02

Session: 2017-2018

**13. Palynology of some selected Sediments from the variegated sandstones (Datta Formation), Western Salt Range, Pakistan.**





**21. Preliminary Pollen Studies of Family Cucurbitaceae from Lahore, Pakistan.**

Institute of Botany, University of the Punjab, Lahore-Pakistan.

**Aqsa Arif**                      **M.Sc BT-27 F19**

Session:                      2019-2021

**22. Palynology of Selected Species of Family Oleaceae from Lahore, Pakistan.**

Institute of Botany, University of the Punjab, Lahore-Pakistan.

**Samavia Azmat**              **M.Sc BT-61 F19**

Session:                      2019-2021

**23. Miospore Distribution in a Selected Tertiary Outcrop from Baluchistan, Pakistan.**

Institute of Botany, University of the Punjab, Lahore-Pakistan.

**Zuha Ijaz**                      **M.Sc BOT-08 F20**

Session:                      2020-2022

**24. Miospore assemblages recovered from Middle Triassic Shales, Salt Range, Pakistan.**

Institute of Botany, University of the Punjab, Lahore-Pakistan.

**Fazeela Aslam**                **M.Sc BOT-20 F20**

Session:                      2020-2022

**25. Palynological analysis of early Permian shaley sandstones, Salt Range, Pakistan.**

Institute of Botany, University of the Punjab, Lahore-Pakistan.

**Naima Kiani**                    **M.Sc BOT-53 F20**

Session:                      2020-2022

**26. Early Permian Plant Microfossils recovered from Fluvio-glacial Sediments, Salt Range, Pakistan.**

Institute of Botany, University of the Punjab, Lahore-Pakistan.

**Noor UI Ain**                    **M.Sc BOT-83 F20**

Session:                      2020-2022

**B.      B.S Environmental Sciences Thesis**

**27. Climate and Environment of Deposition of Early Permian Coal, Burikhel, Western Salt Range, Pakistan.**

Lahore College for Women University, Lahore.

**Syeda Um-e-Kalsoom Naqvi**      Roll No.:      266

Session:                      2003-2006

**28. Climate and Environment of Deposition of Miocene Carbonaceous Shale Horizon, Muzaffarabad, Azad Kashmir, Pakistan.**

Lahore College for Women University, Lahore.

**Abeer Zafar** Roll No.: 283

Session: 2003-2006

**29. A contribution to the late Permian Chiddru Formation Climatology, Salt Range Pakistan**

Forman Christian College (A Chartered University), Lahore, Pakistan.

**Shaina Khaqan**

Session: 2007-2011

**C. B.S Biology Thesis**

**30. Palynology of Early Triassic sediments (Mianwali Formation – Mittiwali Member), Salt Range, Pakistan.**

Forman Christian College (A Chartered University), Lahore

**Farah Naz**

Session: 2007-2011

**31. Palynology of Early Triassic sediments (Mianwali Formation – Narmia Member), Salt Range, Pakistan**

Forman Christian College (A Chartered University), Lahore

**Syeda Komal Farooq**

Session: 2007-2011

**D. B.S Botany Thesis**

**32. Palynology of some lower middle Triassic Sediments (Tredian Formation-Landa Member), Western Salt Range, Pakistan.**

Department of Botany, University of the Punjab, Lahore-Pakistan.

**Rajia Munir** B14-14

Session: 2014-2018

**33. Microspore Analysis of Some Members of Family Fabaceae from Lahore, Pakistan.**

Institute of Botany, University of the Punjab, Lahore-Pakistan.

**Amrozia Tufail** **B.S 15– 22**

Session: 2015-2019

**34. Palynological Investigation of Some Ornamental Flowers of Lahore, Pakistan.**

Institute of Botany, University of the Punjab, Lahore-Pakistan.

- Tayyeba Hassan      B.S 15-25**  
Session:                      2015-2019
- 35. Microspore Analysis of Some Woody Shrubs from Lahore, Pakistan.**  
Institute of Botany, University of the Punjab, Lahore-Pakistan.
- Misbah Tariq              B 16 – 02**  
Session:                      2016-2020
- 36. Pollen Analysis of Some Ornamental Herbs of Lahore, Pakistan.**  
Institute of Botany, University of the Punjab, Lahore-Pakistan.
- Afiat Azam                B 16 – 11**  
Session:                      2016-2020
- 37. Palynological investigations of selected species of Family Asteraceae from Lahore, Pakistan.**  
Institute of Botany, University of the Punjab, Lahore-Pakistan.
- Tehreem Ehsan            B.S BOT-03 B16**  
Session:                      2016-2020
- 38. Early Permian Plant Microfossils recovered from Fluvio-glacial Sediments, Salt Range, Pakistan.**  
Institute of Botany, University of the Punjab, Lahore-Pakistan.
- Maria Kausar              B.S BOT-10 F18**  
Session:                      2018-2022
- 39. Comparative Palynological analysis of some selected varieties of *Rosa indica* L. from Lahore, Pakistan.**  
Institute of Botany, University of the Punjab, Lahore-Pakistan.
- Muhammad Asad Jalal    B.S BOT-28F18**  
Session:                      2018-2022

#### **E.      M.S, M.Phil Botany Thesis**

- 40. Comparative Palynological Analysis of some Dicotyledonous Families from Lahore, Pakistan.**  
Department of Botany, University of the Punjab, Lahore-Pakistan.
- Syeda Iram Ali            M.S 12-03**  
Session:                      2013-2014
- 41. Late Permian Plant Microfossils from Salt Range, Pakistan.**  
Department of Botany, University of the Punjab, Lahore-Pakistan.
- Tayyaba Ejaz              M.S 14-06**  
Session:                      2014-2016

- 42. Palynological Analysis Of Lumshiwai Formation, Chichali Gorge, Salt Range, Pakistan.**  
 Department of Botany, University of the Punjab, Lahore-Pakistan.  
**Aqsa Tariq** MS15-10  
 Session: 2015-2017
- 43. Palynology of Dandot Formation (early Permian), Pidh, Eastern Salt Range, Pakistan.**  
 Department of Botany, University of the Punjab, Lahore-Pakistan.  
**Misbah Ayyub** MS16-13  
 Session: 2016-2018
- 44. Pollen Analysis of Some Members of the Family Poaceae, Lahore, Pakistan.**  
 Institute of Botany, University of the Punjab, Lahore-Pakistan.  
**Yasmin Siddique** M.S BOT 13-F17  
 Session: 2017-2019
- 45. Morphographic Analysis of the Microspores of Some Members of the Family Asteraceae, Lahore, Pakistan.**  
 Institute of Botany, University of the Punjab, Lahore-Pakistan.  
**Maha Naseer** M.S BOT 30-F17  
 Session: 2017-2019
- 46. Palynological Investigation of Some Members of the Family Euphorbiaceae, Lahore, Pakistan.**  
 Institute of Botany, University of the Punjab, Lahore-Pakistan.  
**Amna Sultan** M.S BOT 31-F17  
 Session: 2017-2019
- 47. Comparative Analysis of the Pollen belonging to various Genera of the Family Solanaceae, Lahore, Pakistan.**  
 Institute of Botany, University of the Punjab, Lahore-Pakistan.  
**Syed Sajjad Haidar Kazmi** M.Phil BOT 10-F17  
 Session: 2017-2019
- 48. Additions to the Pollen Analysis of the Family Malvaceae, Lahore, Pakistan.**  
 Institute of Botany, University of the Punjab, Lahore-Pakistan.  
**Sajid Ali** M.Phil BOT 31-F17  
 Session: 2017-2019
- 49. Palynology of Some Selected Species of the Chenopodioideae (Amaranthaceae), Lahore, Pakistan.**

Institute of Botany, University of the Punjab, Lahore-Pakistan.

**Nazish Javaid M.S BT 09-F17**

Session: 2017-2019

**50. Microspore Analysis of the Tribe Asterae (Heliantheae), Lahore, Pakistan.**

Institute of Botany, University of the Punjab, Lahore-Pakistan.

**Noreen Younas M.S BT 40-F18**

Session: 2018-2020

**51. Studies in Pollen Morphology of Some Species of the Family Fabaceae, Lahore, Pakistan.**

Institute of Botany, University of the Punjab, Lahore-Pakistan.

**Tehreem Zehra M.S BT 41-F18**

Session: 2018-2020

**52. Pollen Analysis of some Members of the Family Caryophyllaceae, Lahore, Pakistan.**

Institute of Botany, University of the Punjab, Lahore-Pakistan.

**Hooria Shakeel M.S BT 45-F18**

Session: 2018-2020

**53. Miospore Analysis of some Eocene Carbonaceous Sediments from Hyderabad, Sindh, Pakistan.**

Institute of Botany, University of the Punjab, Lahore-Pakistan.

**Sana Iftikhar M.Phil BT 14-F18**

Session: 2018-2020

**54. Microspore Analysis of the Tribe Asterae (Asteraceae), Lahore, Pakistan.**

Institute of Botany, University of the Punjab, Lahore-Pakistan.

**Fakhira Mushtaq M.Phil BT 40-F18**

Session: 2018-2020

**55. Palynological investigation of some Tertiary Carbonaceous Shales, Quetta, Pakistan.**

Institute of Botany, University of the Punjab, Lahore-Pakistan.

**Nimra Saif M.Phil BT 45-F18**

Session: 2018-2020

**56. Morphographic Analysis of the Pollen of some Members of the Family Rutaceae, Punjab, Pakistan.**

Institute of Botany, University of the Punjab, Lahore-Pakistan.

**Zoobia Naeem Akhtar M.Phil BT 16-F17**

Session: 2018-2020

- 57. Morphographic analysis of Palynological Characters of the Tribe Erythrineae (Fabaceae) from Lahore, Pakistan.**  
Institute of Botany, University of the Punjab, Lahore-Pakistan.  
**Amrozia Tufail**                      **M.S BT 11-F19**  
Session:                                      2019-2021
- 58. Pollen Morphology of Some Selected Species of the Genus *Petunia* Juss. (Solanaceae) from Lahore, Pakistan.**  
Institute of Botany, University of the Punjab, Lahore-Pakistan.  
**Eza Ramzan**                              **M.Phil BT 07-F19**  
Session:                                      2019-2021
- 59. Comparative Palynological Analysis of Some Selected Members of the Tribe Trifoleae (Fabaceae) from Lahore, Pakistan.**  
Institute of Botany, University of the Punjab, Lahore-Pakistan.  
**Anmol Naheed**                              **M.Phil BT 32-F19**  
Session:                                      2019-2021
- 60. Stratigraphic Palynology of Some Carbonaceous Shales, Tharparkar, Sindh, Pakistan.**  
Institute of Botany, University of the Punjab, Lahore-Pakistan.  
**Afiat Azam**                                      **M.S BT 14-F20**  
Session:                                      2020-2022
- 61. Miospore Distribution across Ghazij Formation, Baluchistan, Pakistan.**  
Institute of Botany, University of the Punjab, Lahore-Pakistan.  
**Maira Tajamal**                              **M.S BT 15-F20**  
Session:                                      2020-2022
- 62. Early Jurassic Palynoflora from the Datta Formation, Salt Range, Pakistan.**  
Institute of Botany, University of the Punjab, Lahore-Pakistan.  
**Bushra Rehman**                              **M.S BT 22-F20**  
Session:                                      2020-2022
- 63. Taxonomy and Distribution of Palynomorphs in the Middle Triassic Strata, Salt Range, Pakistan.**  
Institute of Botany, University of the Punjab, Lahore-Pakistan.  
**Farah Maqsood**                              **M.Phil BT 09-F20**  
Session:                                      2020-2022

## RESEARCH PROJECTS (AS PRINCIPAL INVESTIGATOR)

1. **“Vegetation and Climate during the deposition of Patala Formation, Western Salt Range, Pakistan, based on Palynological Analysis”** (2013-2014), funded by the University of the Punjab, Lahore. Completed.
2. **“Palynology of Permian Coal, Western Salt Range, Pakistan”** (2014-2015), funded by the University of the Punjab, Lahore. Completed.
3. **“Palynology of Lignituous Coal from Some Selected Outcrops, Salt Range, Pakistan”** (2015-2016), funded by the University of the Punjab, Lahore. Completed.
4. **“Early Jurassic Floral and Climatic Setting in the Khisor and Salt Ranges (Datta Formation), Pakistan – A Palynological Approach.”** 2018-2019, funded by the University of the Punjab, Lahore. Completed.
5. **“Tracing Early Cretaceous Vegetation Dynamics in relation to Palaeoclimate and Environment of Deposition (Lumshiwai Formation) in the Chichali Gorge, Salt Range, Pakistan” 2020-2021**, funded by the University of the Punjab, Lahore. Completed.
6. **“Evaluating Plant Communities and Climate as depicted through Palynological analysis from Mid Triassic Coaly Shales, Salt Range, Pakistan” 2021-2022**, funded by the University of the Punjab, Lahore. Completed.

## RESEARCH PUBLICATIONS

### a. Published papers

1. **Iqbal, F.**, Hussain, Z. and Masood, K.R. (1997e). Palynology of Middle Triassic Strata (Tredian Formation) Western Salt Range, Pakistan. *Abst. 3rd Geol. Congr.*
2. Masood, K.R., **Iqbal, F.** and Qureshi, K.A. (1998d). Palynological biostratigraphy of Late Permian Strata (Chhidru Formation - Late Dzhulfian) Western Salt Range, Pakistan. *Pak. J. Geol.*, 7: 91-100.
3. Masood, K.R. and **Iqbal, F.** (1999c). Palynostratigraphy of the selected Early Permian outcrop (Dandot Formation - Asselian) Pidh, Eastern Salt Range, Pakistan. *Bull. Geobiol.*, 1(1): 19-31.



4. Masood, K.R. and **Iqbal, F.** (1999d). Early Jurassic Palynology and Geochemical Analysis of Datta Formation (Liassic), Western Salt Range, Pakistan. *Bull. Geobiol.*, **1**(1): 42-51.
5. Masood, K.R. and **Iqbal, F.** (1999e). Subsurface Palynology of Tertiary Sediments, Tharparkar Coal Field, Sindh, Pakistan. Part-I Well Nos. 10, 11, 12, STP series. *Bull. Geobiol.*, **1**(1): 52-62.
6. Masood, K.R. and **Iqbal, F.** (1999f). Early Permian Palynology and lithofacies analysis of the Gondwana Glacial Deposits, Western Salt Range, Pakistan (upper half). *Bull. Geobiol.*, **1**(1): 73-84.
7. Masood, K.R., **Iqbal, F.** and Kassi, M.A. (1999g). Palynology of Ghazij Formation, North East Baluchistan, Pakistan. *Bull. Geobiol.*, **1**(1): 97-112.
8. Masood, K.R., **Iqbal, F.** and Qureshi, K.A. (1999h). Early Triassic Palynology (Mianwali Formation), Western Salt Range, Pakistan, with comments on Depositional Environment and Palaeoclimatology. *Bull. Geobiol.* **2**(1): 11-23.
9. Masood, K.R., **Iqbal, F.** and Ashraf, R. (1999j). Palynology and correlation of Tertiary Carbonaceous Strata, Eastern Salt Range, Pakistan. *Bull. Geobiol.*, **2**(1): 43-60.
10. Masood, K.R., **Iqbal, F.** and Ahsan, N. (1999k). Early Permian Palynology and Lithofacies analysis of Gondwana Glacial Deposits, Western Salt Range, Pakistan, Lower Half (33 meters). *Bull. Geobiol.*, **2**(1): 61-72.
11. Masood, K.R. and **Iqbal, F.** (1999l). Subsurface Palynology of Tertiary sediments (Southern Tharparkar Coal Field), Sindh, Pakistan. Part-II (Well No. 3, TP Series). *Bull. Geobiol.*, **1**(2): 84-92.
12. Masood, K.R., Qureshi, K. A., **Iqbal, F.** and Ahsan, N. (2000). Palaeozoic Palynology (Permian) of the Salt Range, Pakistan: A Review. *Abst. Geosias III*. PP. 153.
13. Masood, K.R., **Iqbal, F.** and Ahsan N. (2001) Preliminary sporological analysis of Lokhart formation, Nammal Gorge, Western Salt Range, Pakistan. *Abstr. 4th Pakistan Geol. Cong.* P. 71.
14. Masood, K.R., **Iqbal, F.** and Ahsan N. (2001) Preliminary sporological analysis of some shales from Hangu Formation, Western Salt Range, Pakistan. *Abstr. 4th Pakistan Geol. Cong.* P.72.
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36. **F.R. Masood** (2017). Palynology of Permian Coal, Salt Range, Pakistan. 1st International Conference on "Conventional and Modern Approaches In Plant Sciences". Department of Botany, University of the Punjab, Lahore. Abst.P.52  
28-29 Nov.
37. **F. R. Masood** and Tariq, A. (2017). Palynological analysis of Lumshival Formation, Chichali Gorge, Salt Range, Pakistan. 1<sup>st</sup> International Conference on "Conventional and Modern Approaches In Plant Sciences". Department of Botany, University of Punjab, Lahore. Abst. P.51
38. Talib, M. and **F. R. Masood** (2017). Miospore assemblage from Gondwana Glacial Deposits (Asselian) Salt Range, Pakistan. 1<sup>st</sup> International Conference on "Conventional and Modern Approaches In Plant Sciences". Department of Botany, University of Punjab, Lahore. Abst. P.51

39. **F. R. Masood** and Chishti, A. (2017). Palynology of Late Permian Strata, Salt Range, Pakistan. 1<sup>st</sup> International Conference on “Conventional and Modern Approaches In Plant Sciences”. Department of Botany, University of Punjab, Lahore. Abst. P.149
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41. **F. R. Masood** and S. Iftikhar (2020). Palynology And Early Jurassic Climate In The Salt Range, Pakistan. International Conference of Smart Plantation, an ultimate solution to climate change, ICSP2020. Department of Botany, Lahore College for Women University, Lahore. Abst. ICSP-O-43
42. **F. R. Masood** and Shaila Anjum (2020). Palynology of Some Members of The Family Convolvulaceae (Austin) Growing In Semi-Arid Climate, Lahore, Pakistan. International Conference of Smart Plantation, an ultimate solution to climate change, ICSP2020. Department of Botany, Lahore College for Women University, Lahore. Abst. ICSP-O-44.
43. Naheed A. and **F. R. Masood** (2022). Comparative Palynological Analysis of Some Selected Members of the Tribe Trifoleae (Fabaceae) from Lahore, Pakistan. . 8<sup>th</sup> International and 17th National Conference on “Advances in Plant Science in the Era of Climate Change. ASPECC-2022-PP-90.
44. **F. R. Masood** and Jalal A. (2022). Comparative Palynological Analysis of Some Selected Varieties of Rosa indica L. from Lahore, Pakistan. . 8<sup>th</sup> International and 17th National Conference on “Advances in Plant Science in the Era of Climate Change. ASPECC-2022-PP-104.
45. Tajamal M. and **F. R. Masood** (2022). Miospore Distribution across Early Eocene Sediments, Baluchistan, Pakistan. 8<sup>th</sup> International and 17th National Conference on “Advances in Plant Science in the Era of Climate Change. ASPECC-2022-PP-112
46. Ehsan T. and **F. R. Masood** (2022). Palynological Investigations of Some Selected Species of Family Asteraceae from Lahore, Pakistan. . 8<sup>th</sup> International and 17th National Conference on “Advances in Plant Science in the Era of Climate Change. ASPECC-2022-PP-110.

47. Iftikhar S. and **F. R. Masood** (2022). Miospore Analysis of Some Eocene Carbonaceous Sediments from Hyderabad, Sindh, Pakistan. . 8<sup>th</sup> International and 17<sup>th</sup> National Conference on “Advances in Plant Science in the Era of Climate Change. ASPECC-2022-PP-108.
48. **F. R. Masood** and Saif N. (2022). Palynological Investigation of Some Tertiary Carbonaceous Shales, Quetta, Pakistan. . 8<sup>th</sup> International and 17<sup>th</sup> National Conference on “Advances in Plant Science in the Era of Climate Change. ASPECC-2022-PP-104.
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**b. Papers in Press**

50. **F.R. Masood.** Plant Microfossils from Carbonaceous Shales of Warchha Formation, Salt Range, Pakistan.
51. Brian J. Axsmith<sup>1</sup>, Ignacio H. Escapa, Benjamin Bomfleur and **F.R. Masood.** Whole Plant Concept Of *Rotundolepis Diffusa* (Emmons, 1856) Bock, 1969 Comb. Et Emend. Nov., A ‘Transitional Conifer’ From the Upper Triassic of North America.
52. **F.R. Masood.** First evidence of Pro-Angiospermic record in the 180 million years old strata (Tredian Formation) Salt Range, Pakistan.

**CURRICULUM DEVELOPMENT**

- Ph.D/M.Phil/M.S:**
1. Phylogeny and Diversification of Angiosperms
  2. Changing Climate and Vegetation
  3. Recent Advances in the Salt Range Palaeopalynology
  4. The Great Plant Extinction Episodes

- BS/M.Sc.:**
1. Archaeopalynology
  2. Aeropalynology and Pollen Borne Diseases
  3. Plant Architecture-Innovations through Time And Space
  4. Evolutionary Trends among Vascular Cryptogams
  5. Evolutionary Trends among Spermatophytes

## **SYMPOSIA, CONFERENCES ATTENDED/PAPERS PRESENTED**

- February, 1993. National Botanical Conference, Faisalabad.
- September, 2000. Third South Asia Geological Congress, Lahore.
- November, 2000. National Botanical Conference, Lahore.
- February, 2001. Fourth Pakistan Geological Congress, Islamabad.
- February, 2001. Presented paper entitled "Middle Triassic pollen and spore assemblage from Western Salt Range, Pakistan", at 4th Pakistan Geological Congress, Islamabad.
- 20<sup>th</sup> – 22<sup>nd</sup> March, 2006. International Symposium on Applications of Plant Sciences in Emerging Scenario, Department of Botany, Government College University, Faisalabad.
- 13<sup>th</sup> – 14<sup>th</sup> Nov., 2006. National Conference on **LIFE SCIENCES**  
National Core Group in Life Sciences  
Bahauddin Zakariya University, Multan.
- 21<sup>st</sup> – 24<sup>th</sup> April, 2008 International Conference of Plant Scientists  
[10<sup>th</sup> National Meeting of Plant Scientists]  
Pakistan Botanical Society  
Department of Botany  
University of Agriculture, Faisalabad.
- March 28-31, 2012 Chicago, IL Fulbright U.S.A and World Chicago
- July 7-11, 2012 Presented a paper orally in **Botany 2012** The Next Generation Conference Botanical Society of America, Columbus, Ohio, U.S.A
- 22-24 September, 2014 Presented a paper orally in International Conference of **Plant Sciences** organized by Department of Botany, GC University, Lahore, Pakistan.
- 01-04 November, 2015 Presented a Paper orally in International Conference **GSA 2015**, held at Baltimore, Maryland USA.
- 28-29 November, 2017 Organized and Conducted the Technical Session viz., "Palynology and Palaeobotany" during 1<sup>st</sup> International Conference on "**Conventional and Modern Approaches in Plant Sciences**" at the Department of Botany, University of the Punjab, Lahore.

- 28-29 November, 2017 Orally presented a paper “Palynology of Permian Coal, Salt Range, Pakistan in 1<sup>st</sup> International Conference on **“Conventional and Modern Approaches in Plant Sciences”** at the Department of Botany, University of the Punjab, Lahore.
- 28-29 November, 2017 Worked as member of Reception and Hospitality Committees in 1<sup>st</sup> International Conference on **“Conventional and Modern Approaches in Plant Sciences”** at the Department of Botany, University of the Punjab, Lahore.
- 05-07 December, 2018 Participated and Attended all sessions of **2<sup>nd</sup> International Conference on plant Sciences (ICPS-2018)** organized by Government College University, Lahore.
- 06-08 December, 2019 Participated and Attended all sessions of **Recent Innovation in Molecular Sciences (ICPU-2019)** organized by Department of Botany, University of the Punjab, Lahore.
- 02-04 March, 2020 Chaired a Session during **International Conference of Smart Plantation, An Ultimate Solution to Climate Change (ICSP-2020)**, Organized by Department of Botany, Lahore College University, Lahore.
- 02-04 March, 2020 Delivered a Key Note Lecture during **International Conference of Smart Plantation, An Ultimate Solution to Climate Change (ICSP-2020)**, Organized by Department of Botany, Lahore College University, Lahore.
- 26-28 October, 2022 Organized 8<sup>th</sup> International and 17<sup>th</sup> National Conference on **“Advances in Plant Science in the Era of Climate Change”** organized by Botanical Society of Pakistan in Collaboration with Government College University Lahore and University of the Punjab, Lahore.
- 26-28 October, 2022 Chaired a Technical Session titled **“Palynology/Mycology and Plant Pathology”** during 8<sup>th</sup> International and 17<sup>th</sup> National Conference on **“Advances in Plant Science in the Era of Climate Change”** organized by Botanical Society of Pakistan in Collaboration with Government College University Lahore and University of the Punjab, Lahore.
- 26-28 October, 2022 Participated with **Two research papers** as oral presentation and **Four** in **Poster** form during 8<sup>th</sup> International and 17<sup>th</sup> National Conference on **“Advances in Plant Science in the Era of Climate**

**Change**” organized by Botanical Society of Pakistan in Collaboration with Government College University Lahore and University of the Punjab, Lahore.

## PROFESSIONAL MEMBERSHIPS

- Member Pakistan Botanical Society.
- Member Punjab Geological Society, Pakistan.
- Member Pakistan Geological Society.
- Member Palaeobotanical & Palynological Club of Pakistan.
- Member American Association of Stratigraphic Palynologists
- Member Botanical Society of America
- Member American Geological Society

## EXTRA CURRICULAR ACTIVITIES

Oct. 88 – Jan. 90.

- Certificate of service for Women Guards. (NCC)
- Attended many courses organized by the Institute of Geology, University of the Punjab, Lahore, Pakistan.
- Microphotography.
- Rock Collection.
- Plant Collection.

## LANGUAGES

- English (Good)
- Urdu (Excellent)
- Punjabi (Excellent)

## REFERENCES

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- **Prof. Dr. Mir Ajab Khan**  
Department of Plant Sciences  
Faculty of Biological Sciences  
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Cell No.: 03005063655