

CURRICULUM VITAE

Zaheer-ud-din Khan

Ph.D. (King's College, London)
Distinguished Professor,
Department of Botany,
GC University, Lahore.
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FIELDS OF INTEREST:

- Plant Systematics, Applied Plant Anatomy & Ethnobotany

EDUCATION:

- 1990: Doctorate of Philosophy in Applied Plant Anatomy & Biochemical Systematics.**
University of London, King's College London, UK.
Thesis: Microstructure of Certain Vegetables.
- 1974: Master in Botany**
University of the Punjab / Government College Lahore.
Thesis: A study of Mycotoxins producing micro-organisms on Wheat and Rice grains.
- 1972: Bachelor of Science**
University of the Punjab / Govt. Islamia College, Civil Lines, Lahore.
Subjects: Botany, Zoology and Chemistry.
- 1970: Higher Secondary School Certificate**
BISE, Lahore / Govt. Murray College, Sialkot
Subjects: Biology, Chemistry and Physics.
- 1968: Secondary School Certificate**
BISE Lahore / Government Pilot Secondary School, Sialkot.
Subjects: Biology, Chemistry, Physics and Math.

SERVICE RECORD:

- **Research Officer**, Department of Chemistry, University of the Punjab, Lahore, in PL-480 project on the “Control of Aquatic Weeds” (01-10-1976 to 15-01-1977).
- **Lecturer in Biology**, Government College, Lahore (21-01-77 to 07-08-1984).
- **Assistant Professor of Botany**, Government College, Lahore (08-08-84 to 31-08-1990).
- **Associate Professor of Botany**, GC University, Lahore (01-09-90 to 25-06-2005).
- **Professor of Botany**, GC University, Lahore (25-06-2005 to 11-08-2012).
- **Visiting Professor of Botany**, GC University, Lahore (01-09-12 to 2016).
- **National Distinguished Professor**, GC University, Lahore (2016 to date)
- **Teaching Botany and Biology** to Post-graduate, Graduate and undergraduate classes at Government College University, Lahore (21-01-77 to date).
- **Research Supervisor** of B.Sc. (Hons.), M.Sc., M.Phil. and Ph.D. students in the field of Plant Systematics, Applied Plant Anatomy and Ethnobotany (1977- to date).

ADMINISTRATIVE EXPERIENCE

- **Chairperson**, Department of Botany GC University, Lahore (26-02-2007 to 11-08-12).
- **Incharge**, Grounds & Gardens, GC University, Lahore (1991- to date).
- **Convener**, University Purchase Committee, GC University, Lahore (July 2005 -2011).
- **Warden**, Iqbal Hostel, GC University, Lahore (Sep, 2006 to Aug, 2016).
- **Convener**, University Hostel Committee, GCU (May, 2012 to Aug, 2016).
- **Convener**, Purchase Committee, Department of Botany, GCU, Lahore (Feb, 2007 to Aug, 2012).
- **Chief Tutor Science**, GC University, Lahore (Aug, 2011 to June, 2016).

ADDITIONAL ASSIGNMENTS:

- **Member**, University Purchase Committee, GC University, Lahore (1994-2005).
- **Incharge/Convener**, Museum / Herbarium, Botany Department, GC University, Lahore (1996-2012; 2016 to date).
- **Member**, Disciplinary Committee, GC University, Lahore. (2000-2003).
- **Member**, Purchase Committee, Department of Botany, GC University, Lahore (2000-09).
- **Member**, Monitoring Committee, Dengue Prevention and Control, GC University, Lahore (2012).
- **Member**, Plagiarism Standing Committee, GC University, Lahore (2012 to date).
- **Member**, Academic Council, GC University, Lahore (2010 to date).
- **Member**, Clean & Green Pakistan Committee, GC University, Lahore (2018 to date)

MEMBERSHIP OF PROFESSIONAL ORGANIZATIONS/SOCIETIES:

- **Life Member**, Pakistan Botanical Society, Pakistan.
- **Life Fellow**, Biological Society of Pakistan.
- **Life Member**, Pakistan Association for the Advancement of Science, Pakistan.
- **Vice President**, Biological Society of Pakistan (2000-2014 & 2016 to date).
- **General Secretary**, Pakistan Botanical Society (2008-2011).
- **General Secretary**, Biological Society of Pakistan (2014-2016).

DISTINCTIONS:

- **Received an Appreciation Award** from Prof. Dr. Shazia Bashir, Vice Chancellor of GC University, Lahore, in recognition of the completion of 18 PhD supervisions in 2024.
- **Received a Lifetime Achievement Award** from Prof. Dr. Asghar Zaidi, Vice Chancellor of GC University, Lahore, in 2023.
- **HEC Best University Teacher Award** for the year 2009 (2010).
- **Academic Roll of Honour**, Government College, Lahore (1974).
- **Certificate of Merit** for Co-curricular activities, Govt. College, Lahore (1972-1974).
- **First among boys & Overall 5th position** in University of the Punjab (M.Sc. Exam 1974).

CASH AWARDS:

HEC Best University Teacher Award, 2009.	Amount: Rs. 0.1 M
Productivity Allowance for Publication of Research Papers in HEC recognized Journals during 2009-2011.	Amount: Rs. 0.1 M
Productive Scientist Award by PCST, 2012	Category G
Ph.D. Allowance for Supervising GCU, Lahore faculty Members in Botany	Amount: Rs. 0.5 M

CONSULTANCY:

Punjab Small Industries Corporation (PSIC), Govt. of the Punjab	As: Consultant
Feasibility Study, "Extraction of Essential oil from Fragrant/Aromatic Plants" (2008-09)	Amount: Rs. 0.30 M
	Duration: 4 Months

Rejuvenation of Kasur Gardens as Biodiversity cum Recreational Park (Joint Project of Punjab Environment Protection Deptt. and City District Government Kasur).

As: Consultant
Amount: Rs. 0.5 M
Duration: 36 Months (2007-2009)

World Bank-WAPDA, Terbella Dam 4th Extension Project, EIA Study: “Plant Inventory & Phytoecology of Terbella Dam and its adjoining Areas.”

As: Consultant
Amount: Rs. 0.12 M
Duration: 15 days (March 2011)

Honorarium,
Project entitled, “Preservation and Enhancement of Biodiversity through Botanic Garden, GC University, Lahore” funded by **EPD, Govt. of the Punjab.**

As: Project Director
Pay: Rs. 0.12 M @ Rs. 5000 pm
Duration: 24 months (2007-2009)

PROJECTS UNDER-TAKEN:

EPD (Environmental Protection Deptt.), Govt. of the Punjab & GC University Lahore.

Project entitled, “Preservation and Enhancement of Biodiversity through Botanical Garden, GC University, Lahore”.

As: Project Director
Amount: Rs. 15 M
Duration: 24 months (2007-2009)

HEC, National Research Programme for Universities

Research Project entitled, “Conservation status of Flora of Punjab: Environmental Implications and Plant Red Data List for Punjab”.

As: Principal Investigator
Amount: Rs. 1,117,901/-
Duration: 36 Months (2009-2012)

HEC, National Research Programme for Universities

A Research Project entitled, “Ethnofloristic Study of Sub-Tropical Zone of District Kotli, Azad Jammu and Kashmir, Pakistan.”

As: Principal Investigator
Amount: Rs. 2,893,678/-
Duration: 36 Months (2010-2013)

WWF-Pakistan (WWF/SC/HA (10)/1437

A Research Project entitled, “Vegetation Analysis of Kathar Game Reserve”, District Rawalpindi/ Islamabad.

As: Principal Investigator
Amount: Rs. 50,000/-
Duration: 12 Months (2010-2011)

HEC National Research Programme for Universities

Research Project entitled, “Drought Reconstruction of Gilgit and the Hunza Valleys using Tree-rings”.
No. 20-1806/R&D/10/5149 Dated: 11.07.2011

As: Co-Principal Investigator
Amount: Rs. 2,279,414/-
Duration: 36 Months
(April-2011-March-2013)

HEC ASSIGNMENTS

- **HEC approved Ph.D. supervisor.**
- **Resource Person** in the National Biology Olympiad at **NIBGE**, Faisalabad, Pakistan. **STEM** Carrier Project (A joint venture of **PAEC&HEC**) (2004-2008).
- **Reviewer** of Presidential Innovator (**PYI**) Programm Research Proposals, **HEC, National Research Program for Universities** (2007- to date).
- **Evaluator** for evaluation of the subject textbook. **HEC** project on “Monograph and Textbook Writing Scheme” (2007-2012).
- **Member** of “**University-Industry Interaction**” Project of **HEC**, arranging meetings between HEC representatives, Academicians and Members of Lahore Chamber of Commerce and Industry (2007-2016).
- **Resource Person** in “In-service Teacher Training Workshop on Botanical Techniques, Organized by **HEC and GCU**, Lahore (February 2009).
- **Resource Person** in International Seminar on Medicinal Plants, organized by **HEC-BC Link Project** at Lahore College for Women University, Lahore (2008-2010).
- **Principal & Co-Principal Investigator** National Research Programme for Universities (2008- to date).

THESES SUPERVISED:**Ph.D. Level:**

- | | |
|---|-----------|
| • Theses compiled and declared successful | 16 |
| • Theses compilation in process | 03 |
| (Funded by GC University, Lahore) | 18 |
| (Funded by HEC) | 01 |

M.Phil. Level:

- | | |
|---|-----------|
| Theses supervised | 65 |
| (Funded by GC University, Lahore) | 63 |
| (Funded by HEC) | 02 |

M.Sc. Level:

- | | |
|---|-----------|
| (Funded by GC University, Lahore) | 57 |
|---|-----------|

B.Sc. (Hons.) Level:

- | | |
|---|-----------|
| (Funded by GC University, Lahore) | 48 |
|---|-----------|

RESEARCH PUBLICATIONS:

- | | |
|-----------------------------|------------|
| ➤ Total Publications | 147 |
| • As Main Author | 23 |

• As Co- Author	124
➤ Conference Proceedings	22
➤ Impact Factor	83.03

BOOKS WRITTEN / PUBLISHED:

CO-AUTHOR OF BOOKS/NOTE BOOKS FOR B.Sc. STUDENTS:

1. An Easy Approach to Morphology of Non-Flowering Plants/**Paper A** (1991-2005).
2. An Easy Approach to Morphology of Angiosperms, Anatomy and Cytogenetics/ **Paper B** (1991-2005).
3. An Easy Approach to Plant Physiology and Ecology/**Paper C** (1991-2005).
4. Botany Laboratory Manuals (Practical Note book) Paper A, (Morphology of Non-Flowering Plants) for B.Sc. course of Punjab University, Lahore (1991-2005).
5. Botany Laboratory Manuals (Practical Note book) Paper B (Morphology of Angiosperms, Anatomy and Cytogenetics.) for B.Sc. course of Punjab University, Lahore (1991-2005).
6. Botany Laboratory Manuals (Practical Note books) Paper C (Plant Physiology and Ecology) for B.Sc. course of Punjab University, Lahore (1991-2005).

BOOKS REVIEWED:

1. **Medicinal Plants:** History, Cultivation and Uses by Muhammad Afzal Rizvi, Aftab Saeed & hakim Naimuddin Zubairy. **Hamdard Institute of Advanced Studies & Research, Hamdard University, Karachi, Pakistan.** 2007 (Pages 216).
2. **Woods of Pakistan.** The details on the anatomical characteristics of Pakistani Woods with reference to their commercial uses/value. **HEC, Islamabad.** Pages 301 (10-7-2008).

EDITORIAL EXPERIENCE

- **Advisor, Scientific Ravi,** GC University, Lahore (1988-2008).
- **Reviewer in a workshop on Intermediate Science Text Books** organized by **Punjab Text Book Board, Lahore** (27-04-91 to 01-05-91).
- **Associate Editor and Liaison Scientist, “Journal of Animal and Plant Sciences”** being published by Pakistan Agricultural Scientists Forum, Pakistan (1996-2010)
- **Member, Advisory Committee of Illustrated Urdu Science Encyclopedia.** Urdu Science Board Ministry of Education Government of Pakistan. (2006-2009).
- **Member, Advisory and Editorial Board** of the “**Pakistan Journal of Science**”, Pakistan Association for the Advancement of Science. (2006- to date).
- **Member, Advisory and Editorial Board** of the “**Pakistan journal of Scientific Research**”, Pakistan Association for the Advancement of Science (2006- to date).

- **Member, HEC Inter-University Course Curriculum Committee in Botany** (2004-2012).
- **Advisor, National Curriculum for Biology** 2006. Government of Pakistan Ministry of Education Islamabad. Review of Manuscripts / Textbooks of Biology for class IX-XII (2006-2012).
- **Member, Subject Specific Provincial Review Committee** for the Evaluation of Textbooks Developed under National Curriculum 2006 (2008- to date).
- **Editor, BIOLOGIA**, Biological Society of Pakistan, GC University, Lahore (2007-2014).
- **Member Biology Subject Panel Agha Khan University** – Examination Board Karachi (2008).
- **Attendant Provincial Review Committee (PRCs)** for the Evaluation of Textbooks of BIOLOGY under **National Textbook and Learning Materials Policy-2007**. Punjab Text Book Board, Lahore (4th – 7th April 2008).
- **Editor**, of a special Issue of **International Journal of Biology and Biotechnology**. 7(3) on Second National Science Conference/Workshop on Ecology, at FUUAST, Karachi (2010).
- **Member Editorial Board, FUUAST Journal of Biology**. ISSN No. 2222-0356 Published by Biological Science Departments Federal Urdu University of Arts, Science and Technology, Gulshan-e-Iqbal Campus, Karachi. (2012-2017).
- **Reviewer** in Academic Reputation Survey for improving the Times Higher Education World University Rankings and Supporting Institutional Profile.- Tomson Reuters, Global Institutional Profiles Project (2011-2012).

TRAINING /WORKSHOPS:

➤ Organized

- **International Seminar/Workshop on Biodiversity Conservation and Enhancement: Tree-Rings Applications in Pakistan** held in GC University, Lahore (7-9 Oct., 2009).
- **Organized Workshop on “Basic Techniques for Botany Teachers”**, Funded by HEC at GC University, Lahore (20-23 Dec. 2010).
- **Organized Workshop on “Basic Techniques for Botany Teachers”**, Funded by HEC at GC University, Lahore (10-13 Jan. 2011).

➤ Attended

- **Received Training on “Nuclear and Other Advanced Techniques in Agriculture and Biological Research”**. 26-11-77 to 08-12-77 at **Nuclear Institute of Agriculture and Biology (NIAB), Faisalabad**.
- **Received an “In-service training for University / College Teachers”**. 16-11-79 to 30-11-79, organized by the **University Grants Commission**.

- **Attended** a workshop on “**Identification of Salt Tolerant Plants**” 8th to 10th April, 2003 at Institute of National Resources and Environmental Sciences, Rangeland Research program, **National Herbarium NARC, Islamabad.**
- **Attended** a workshop on” **Linking Medicinal Plants Research and Policy to Poverty Reduction and Conservation**” 10th – 11th February 2004 organized by **HUJRA and IPRP**, Swat, Pakistan.
- **Attended** the seminar on “Human Rights, Governance and Democracy in Pakistan”. 13th – 14th March, 2008. Arranged by **British Council** and **British High Commission** at Royal Palm Golf and Country Club, Lahore.
- **Attended** a workshop on “**Floriculture and Landscape Management**” 12th April 2008. Organized by Institute of Horticultural Sciences, **University of Agriculture, Faisalabad & HEC.**
- **Participated** in **Global Environment Facility (GEF) National Dialogue Initiative.** January 27-28th, 2009 at Avari Hotel Lahore. Organized by **Ministry of Environment, Pakistan.**

CONFERENCES / SYMPOSIA / SEMINARS:

➤ **Organized**

- **Organized 8th National Weed Science Conference.** “Judicious Weed Management Road to Sustainability”. Organized by **Weed Science Society of Pakistan and GC University Lahore** (25th – 27th June 2007).
- **Organized International Seminar/Workshop on Biodiversity Conservation and Enhancement:** Tree-Rings Applications in Pakistan held in Collaboration with **EPD**, Government of Punjab at GC University, Lahore (7-9 Oct., 2009).
- **Organized 22nd Asia Pacific Weed Science Conference** held in Collaboration with Agricultural University, Peshawar at GC University, Lahore (3-7 March, 2010).
- **Organized 2nd International Conference of Plant Scientists** after 11th National Meeting of Plant Scientists (22-24 February, 2011).
- **Organized 32nd Pakistan Congress of Zoology (International)** at GC University, Lahore March 6-8, 2012.
- **Organized 2nd International Conference on Plant Sciences (ICPS-2018)** as a member of organizing committee (5-7 December, 2018).

➤ **Attended**

- **Attended a Conference on Food Microstructure** arranged by Agriculture and Food **Research Council, Institute of Food Research, Reading Laboratory at University of Reading, England** (20th –22nd Sept. 1988).
- **Presented** a research paper jointly with Ph.D. supervisor Prof. J.G. Vaughan Deptt. of Food Science, Kings College London, entitled “The Microstructure of Vegetables” in a symposium organized by **Agriculture and Food Research Council, Copenhagen, Denmark** (30th May – 1st June, 1989).

- **Presented** two research papers in “**First National Symposium on Biotechnology for Sustainable Development**”. 1997. Organized by **Biotechnology Society of Pakistan** at GC University, Lahore.
- **Presented** research articles in **2nd National Conference of Biology** Organized by **Biological Society of Pakistan**, GC University, Lahore, Pakistan (22–24 April 2004).
- **Presented** two research articles in **Pakistan Botanic Gardens Conference** “Action Plan for Botanic Gardens Network in Pakistan. Organized by **Department of Botany & Environmental Sciences GC University Lahore, Pakistan** (24-25, March 2006).
- **Presented** two research articles in **8th National Weed Science Conference**. “Judicious Weed Management – Road to Sustainability”. Organized by **Weed Science Society of Pakistan and GC University Lahore** (25th – 27th June 2007).
- **Presented** a research paper jointly with M.Sc. student entitled Antimicrobial Activity of Two Ethnobotanically Important Ferns, *Adiantum capillus-veneris* L. and *Pteris vittata* L. in **1st International Seminar on Medicinal Plants: Isolation & Applications**, organized by **HEC-BC Link Project at Lahore College for Women University Lahore** (May 21-23, 2008).
- **Presented** a research paper jointly with M.Sc. student entitled Antimicrobial Activity of Two Ethnobotanically Important Species of Family Zygophyllaceae, *Tribulus terrestris* L. and *Peganum harmala* L. in **1st International Seminar on Medicinal Plants: Isolation & Applications**, organized by **HEC-BC Link Project at Lahore College for Women University Lahore** (May 21-23, 2008).
- **Presented a research paper entitled, “Floristic Composition of Weeds in Wheat fields of different agro ecological conditions in Upper Indus Plains, Punjab, Pakistan”** in Second National Science Conference/Workshop on Ecology, Organized by **Laboratory of Dendrochronology and Plant Ecology, FUUAST, Karachi** (May 3-7, 2010).
- **Presented two research papers jointly** with M.Phil student entitled, “Potential of Dendrochronology in Forest Ecosystem Research and Dating of the Earth Quakes: Responses of “**Tree rings in earthquake studies in Pakistan**”, in Second International Conference of Dendrochronology, Organized by **Laboratory of Dendrochronology and Plant Ecology, FUUAST, Karachi** (Nov. 14-19, 2010).
- **Presented a research paper jointly with** Prof. Dr. Jonathan Palmer of Gondwana Tree-ring Laboratory New-Zealand entitled “**The Potential of Tree-Ring Research in Pakistan**” in Second International Conference of Dendrochronology. Organized by **Laboratory of Dendrochronology and Plant Ecology, FUUAST, Karachi** (Nov. 14-19, 2010).
- **Presented a research paper with** Ph.D. student, Tasveer Zahra Bokhari and Dr. Moin-ud-din Ahmad of FUUAST, Karachi entitled, “**Dating of the Earthquakes: Responses of Tree Ring to the catastrophic Earthquake of 2005 in Azad Jammu and Kashmir Pakistan.**” in Second International Conference of Dendrochronology. Organized by **Laboratory of Dendrochronology and Plant Ecology. FUUAST, Karachi** (Nov. 14-19, 2010).

Attended as a Resource Person

- **Resource Person** in the refresher courses for **In-service Teachers Training Programs, 1990’s Islamabad**, Organized by **Punjab Education Department and**

University Grants Commission 1990.

- **Delivered a Keynote address on:** Pharmacological studies on Medicinal Plants”, symposium under **HE-BC Link II** held in **Lahore College for Women University, Lahore** (June 20, 2009).
- **Third International Conference/Workshop on Dendrochronology & Plant Ecology** organized by **FUUAST Karachi** (25th-30th Nov, 2011).

OTHER EXPERIENCE:

➤ **Board of Studies in Botany:**

- **Convener**, Board of Studies in Botany, GC University, Lahore (2007 to 2012).
- **Member**, Board of Studies in Botany, GC University, Lahore (2002-2007).
- **Member**, Board of Studies in Botany, BZ University, Multan (2008 - 2012).
- **Member**, Board of Studies in Botany Islamia University, Bahawalpur (2009-2010).
- **Member**, Board of Studies in Botany, GC University, Faisalabad (2009 - 2015).
- **Member, Committee of GRE Test** for admission in Ph.D. program (2006-2010).

➤ **External Examiner**

- **External Examiner** for the Evaluation of M.Phil theses in Faculty of Pharmacognosy/Pharmacy, University of the Punjab and University of Veterinary and Animal Sciences, Lahore (1977-todate).
- **Head Examiner / Paper Setter** of B.SEd., M.Sc. and M.Phil. Botany, Bahuddin Zakria University, Multan; Punjab University, Lahore; University of Azad Jammu, Kashmir Muzaffrabad; Lahore, College for Women University, Lahore and University of Education, Lahore (1977-2014).
- **Head Examiners / Paper Setter** of Lecturer & Provincial Services of Punjab Public Service Commission (2010-2019)

➤ **Focal Person** for the Projects on Community Development arranged in collaboration by BUNYAD and GC University, Lahore (2000-2015).

➤ **Expert to Advice the Selection Board:**

- **University of Education, Lahore** to select teaching faculty in Botany (2008 to 2016).
- **University of the Punjab** in selection of teaching faculty in Botany (2008 to 2015).
- **LCW University, Lahore** in selecting Faculty for Botany (2009 to date).
- **Punjab Public Service Commission** in Selecting teaching faculty in Botany (2008-to date).

➤ **Advisor/Consultant/Member** of Technical Committees on Botanic Gardens, Biodiversity Parks, Grounds and Gardens, Landscaping, Horticulture, etc. (2005-2015)

- **Incharge**, Grounds and Gardens in GC University, Lahore (1991-todate).

- **Advisor**, Horticultural Society, GC University, Lahore (1991-todate).
- **Incharge**, Botanical Garden, GC University, Lahore. (1977-1986 & 2007-2012).
- **Member** of Technical Committee for the development / Management of Botanical Garden, University of Agriculture, Faisalabad (2000-2003).
- **Member** of Technical Committee of Environmental Protection Agency (EPA), Government of the Punjab, on Indigenous Technologies (2008-2011).
- **Advisor/Consultant** of Technical Committee on Biodiversity Parks in Punjab, through Environmental Protection Department, **EPD** Government of the Punjab (2009-2012).

REFERENCES:

Dr. Khalid Hamid Sheikh

Professor Emeritus

Department of Botany, GC University, Lahore

khalidhamidsheikh@yahoo.com

Dr. M. W. Hussain

Director

Life Sciences, FC College (Chartered University, Lahore)

wajahathussain@fccollege.edu.pk

Dr. Moinuddin Ahmad

Visiting Professor

Indiana State University,

10722, Lake Tahoe Drive,

Fort Wayne, IN, 46804, USA.

moin_ahmad2005@yahoo.com

PERSONAL DATA:

- | | | |
|-------------------------|---|---|
| • Name | : | Dr. Zaheer-ud-din Khan |
| • Father's Name | : | Abdul Ghani Khan |
| • Date of Birth | : | 12 th August 1952 |
| • Place of Birth | : | Lahore/Punjab, Pakistan |
| • C.N.I.C. No. | : | 35202-1226977-3 |
| • Nationality/ Domicile | : | Pakistani/ District Sialkot (Narowal), Punjab |
| • Mailing Address | : | 106-L, Phase-5, DHA Lahore, Punjab, Pakistan. |