Curriculum Vitae

Prof Dr Azhar Ali Shah

PhD (IT), University of Nottingham, UK
MPhil (IT), University of Sindh, Pakistan
MSc & BSc (Electronics), University of Sindh, Pakistan
MA (Sociology), University of Sindh, Pakistan
LLB, University of Sindh, Pakistan
(+92) 3333441429 | azhar.shah@usindh.edu.pk |

Experience	18+ years
Current Position	Professor, IICT, University of Sindh
Education	University of Nottingham, UK PhD (IT) Distributed Computing & Bioinformatics (2011)
	University of Sindh, Pakistan MPhil (IT) Sindhi Computing (2004)
	University of Sindh, Pakistan MSc Electronics (1998)
Nationality	Pakistani
NIC	41303-1525956-9
Date of Birth	05-02-1976

Experience

March 26, 2018 --- to date

Professor
IICT, University of Sindh, Pakistan

- Teaching Advanced Research Methodology, Distributed Computing, Embedded System Design and Introduction to IT to PhD/MPhil/BS IT/Telecom/SE/Electronics students.
- Supervising research projects of MPhil and PhD scholars
- Working as an active member of the Academic Council and Senate of the University of Sindh

July 2013 ---- April 2015 (Additional Charge)

Director, Quality Enhancement Cell
University of Sindh, Pakistan

- Monitoring and Controlling the Self-Assessment Reports for all academic disciplines
- Documentation for ISO 9001:2008 Quality Management System (QMS)
- Student/Faculty/Employer Perception Surveys

- Strategies for Improvement of University Ranking
- Prepared SU Strategic (Business) Plan 2015-19
- Worked as a member of Statutory bodies (Academic Council, Board of Advanced Studies & Research, Deans Committee and Finance & Planning Committee)

July 18, 2012 - Mar 25, 2018	**Associate Professor** IICT, University of Sindh, Pakistan	

- Teaching Research Methodology & Introduction to Bioinformatics to MPhil/PhD Scholars; Professional Practice and Introduction to IT to BS IT/SE/Telecom/Electronics students
- Supervising research projects of MPhil and PhD scholars

Jan 14, 2006 – July 17, 2012   **Assistant Professor**
IICT, University of Sindh, Pakistan

- Doctoral research studies and publication of research articles in international conferences and journals
- Teaching and supervising under graduate students
- Laboratory demonstration for computing subjects

Feb 2002 – Jan 2006   **Warden, Boys Hostel**
(Additional Charge)   University of Sindh, Pakistan

- Supervisory management of Lal Shahbaz Hostel
- Student counselling
- Arrangement of extra-curricular events

Nov 10, 2000 - Jan 13, 2006   **Lecturer**
IICT, University of Sindh, Pakistan

- Teaching Programming in C, C++, Java, Operating Systems, Digital Signal Processing, Signals and Systems to BS IT/SE/Telecomm/Electronics.
- Supervising final year research projects of BS IT/SE/Telecomm/Electronics.

Education

PhD (Information Technology) Topic: *Distributed Approaches for Multi-Criteria Protein Structure comparison*	2011	University of Nottingham, UK
MPhil (Information Technology) Topic: *Development of Prototype Sindhi Programming Interface for Java* (A Grade: 90% Marks)	2004	University of Sindh, Pakistan
MSc (Hons) (Electronics) First Class: 81.93% Marks	1998	University of Sindh, Pakistan

BSc (Hons) (Electronics) First Class: 74.29% Marks	1997	University of Sindh, Pakistan
Higher Secondary School Certificate (HSSC) A Grade: 74% Marks	1993	B.I.S.E Hyderabad
Secondary School Certificate A Grade: 79% Marks	1991	B.I.S.E Hyderabad

Training

13	*August 3-6, 2015*	Assessing Research Proposals	TESP-HEC, **IBA Karachi, Pakistan**
12	*Jan 26-30, 2015*	ISO 9001:2008 Quality Management System Auditor/Lead Auditor Training Course	Pakistan Institute of Quality Control **(PIQC), Lahore, Pakistan**
11	*Dec 24, 2014*	Quality Assurance in Education	Pakistan Institute of Quality Control **(PIQC), Rawalpindi, Pakistan**
10	*Sep 4-5, 2013*	Awareness & Internal Auditing to Quality Management System (QMS)	SGS Pakistan (Pvt.) Ltd, **University of Sindh, Pakistan**
9	*August 26-28, 2013*	Bioinformatics Tools in Structural Biology	Dr Panjwani Centre for Mollecular Medicine and Drug Research, International Centre for Chemical and Biological Sciences, **University of Karachi, Karachi, Pakistan**
8	*August 22-23, 2013*	Internal Quality Management System (QMS) Auditor Course	LRQA Traning, **MUET, Jamshoro, Pakistan**
7	*July 26-30, 2010*	Cuda Programming on NVIDIA GPUs	e-Research Centre, **University of Oxford, UK**
6	*May 6-7, 2008*	Understanding Protein Structures	EMBL-EBI, **University of Cambridge, UK**
5	*May 12-13, 2007*	gLite Application Developers	National eScience Centre, **University of Manchester, UK**
4	*April 16-20, 2007*	Grid Computing and the National Grid Service (Induction, Application Developer, Training the Trainers)	National eScience Centre, **Brunel University, UK**
3	*Sep 2006-Agusut 2007*	Introducing XML, Presentation Skills,	Graduate School, **University of Nottingham, UK**

		Problem Exploration in Research	
2	*Dec 18, 2005 to Apr 23, 2006*	PGC in Database Development .NET	CCEE, **NED University of Engineering & Technology, Karachi, Pakistan**
1	*Nov 9, 2005*	Multi Agent Systems & Grid Computing	NIIT, **National University of Science & Technology, Islamabad, Pakistan**

Focal/Resource Person

4	*May 13, 2017*	*Effective Research Methodology & Creative Writing Skills*	Research Gateway Pakistan, Hyderabad Club, Hyderabad, Pakistan
3	*Nov 5, 2016*	*Achieving Excellence in Research*	Research Gateway Pakistan, Crown Plaza Hotel, Hyderabad, Pakistan
2	*March 2-5, 2015*	*Quality Assurance for University Administrative Staff*	*Essentials of Entrepreneurship*, Liaqat University of Medical & Health Sciences, Jamshoro, Pakistan
1	*Sep 29-Oct 3, 2014*	*HEC Indigenous On-Campus Training (IOT) for Management Cadre Staff Under Modern University Governance Program (MUGP)*	Quality Enhancement Cell, University of Sindh, Jamshoro, Pakistan

Professional Membership

5	*March 26, 2018 – to date*	Member	Senate, University of Sindh Academic Council, University of Sindh
4	*July 2013 – April 2015*	Member	Academic Council, Board of Advanced Studies and Research (BASR), Deans Committee, Affiliation Committee, Admission Committee, Anomaly Committee, Grievances Committee, University of Sindh, Jamshoro, Pakistan
3	*July 18, 2012 to date*	Member	Board of Faculty, Faculty of Natural Sciences, University of Sindh Board of Studies, Institute of IICT, University of Sindh, Jamshoro, Pakistan

2	*Nov 10, 2000 to date*	Member & Elected Vice-President 2014-15	Federation of All Pakistan Universities Academic Staff Association (FAPUASA), Pakistan
1	*Nov 10, 2000 to date*	Member & Elected Secretary 2017-18 Elected President 2016-17 Elected President 2013-14 Elected Secretary 2012-13 Elected President 2011-12	Sindh University Teachers' Association (SUTA), University of Sindh, Pakistan

Awards & Recognition

3	*Oct 2014*	Sindh University Strategic Plan 2014-19	Resolution No.5 of the 190th meeting of Syndicate held on Nov 22, 2014, University of Sindh, Jamshoro, Pakistan
2	*August 4, 2007*	Excellent Progress Report in Doctoral Studies under Mega Project Scheme at the University of Nottingham, UK	Resolution No.15 of the 163rd meeting of Syndicate held on August 4, 2007, University f Sindh Jamshoro, Pakistan (SU Registrar Letter No.Admn.Teach/4686 dated Sep 4, 2007)
1	*Sep 2006 – April 2011*	Overseas PhD Scholarship Under Mega Project at University of Nottingham, UK	Faculty Development Program, University of Sindh, Jamshoro, Pakistan

PhD/MPhil Scholars Supervised

3	*2014-2016*	Adul Rehman Baloch	*"User Centric Advertisement Using Software Sensors".*
2	*2013-2015*	Shahnazwaz Shah	*"Empirical Modelling of Fog Characteristics and its Effects on Free Space Optical Communication".*
1	*2013-2015*	Anas Jawarneh	*"Bioinformatics in Pakistan: Challenged & Opportunities".*

Research Grants and Projects

2	*2012-2015*	*Principal Investigator in ICT based Monitoring of Development Projects*	Services General Administration & Coordination Department, Government of Sindh, Pakistan
1	*2011 -2015*	*Member in INSPIRE Project for Establishment of Bioinformatics Infrastructure at SU in Collaboration with University of Essex, UK*	Higher Education Commission, Pakistan and British Council, UK

Conferences Participated

7	*Dec 28-29, 2018*	International Conference on Computing and Related Technologies, Sindh Madersatul Islam University (SMIU), Karachi, **PAKISTAN**
6	*Dec 28-30, 2016*	2nd International Conference on Emerging Trends in Engineering, Management and Sciences (ICETEMS-2016), City University of Science & Information Technology, Peshawar, **PAKISTAN**
5	*August 3-4, 2009*	22nd IEEE International Symposium on Computer-Based Medical Systems, August 3-4, 2009, Albuquerque, New Mexico, **USA**
4	*Dec 10-12, 2008*	The 2008 IEEE International Symposium on Parallel and Distributed Processing and Applications (ISPA08), December 10-12, 2008, Sydney**, AUSTRALIA**
3	*Nov 4-8, 2007*	4th International Symposium on Biotechnology and 1st Pakistan-China-Iran International Conference on Biotechnology-Bioengineering-Biophysical Chemistry, Institute of Biotechnology & Genetics, University of Sindh, Nov 4-8, 2007, **PAKISTAN**
2	*August 29-31, 2007*	Fifth International Symposium on Parallel and Distributed Processing and Applications (ISPA07), August 29 -31, 2007, Sheraton Falls View Hotel, Niagara Falls, ON, **CANADA**
1	*March 19-22, 2007*	The 1st International Conference on Digital Communications and Computer Applications (DCCA2007), Jordan University of Science and Technology, March 19-22, 2007, Ibid, **JORDAN**

Books Authored

1	*September 2017*	*Reforms needed in the Universities of Sindh*	ISBN:978-969-23242-0-5
		سنڌ جي يونيورسٽين ۾ سڌارن جي ضرورت	

Research Journal Articles

18	2016	*Extinction Coefficient For Fog Attenuation Via Non-linear Medium*	Vol 48, No 3 (2016): Sindh University Research Journal (Science Series)
17	2015	*Novel Broadband FSS Dual-Layer Circular Polarizer Based on Quarter Wave Plate*	Vol 47, No 4 (2015): Sindh University Research Journal (Science Series)
16	2015	*Crime Analysis using Open Source Information*	Vol 47, No 4 (2015): Sindh University Research Journal (Science Series)
15	2015	*Bandwidth-enhancement of Low Profile Frequency Selective Surface Dual Layer Circular Polarizer*	Vol 47, No 3 (2015): Sindh University Research Journal (Science Series)
14	2015	*DC Coefficients comparison based Approach for Fingerprint Identification System*	Vol 47, No 1 (2015): Sindh University Research Journal (Science Series)
13	2014	*A Cost-Effective Indigenous Wireless Electronic Stethoscope using RF*	Vol 46, No 4 (2014): Sindh University Research Journal(Science Series)
12	2013	*On the Scalability of Multi-Criteria Protein Structure Comparison in the Grid*	Mehran University Research Journal of Engineering & Technology, Volume 32, No. 1, January, 2013
11	2012	*Computerized Scrabble Word Game in National and Regional Languages of Pakistan*	Sindh Univ. Res. Jour. (Sci. Ser.) Vol.44 (1)85-90(2012
10	2012	Towards a Generic Framework for the Development of Unicode Based Digital Sindhi Dictionaries	MUET Res. J. of Engineering & Technology, Vol. 31, No.1, January, 2012
9	2011	Design & Development of the Graphical User Interface for Sindhi Language	MUET Res. J. of Engineering & Technology, Vol. 30, No.4, October, 2011
8	2011	*Text to Speech Synthesis System for National and Regional Languages of Pakistan*	International Journal of Computer Information

			Systems (IJCIS),Vol. 3, No. 5, November, 2011
7	**2011**	*System Support For Managing Invalid Bindings*	International Journal of UbiComp (IJU), Vol.2, No.3, July 2011
6	**2011**	*Password Based Rotational Multi-storey Car Parking System*	Journal of Emerging Trends in Computing and Information Sciences, Vol. 2, NO. 12, December 2011
5	**2010**	*Toward high-throughput, multi-criteria protein-structure comparison and analysis*	IEEE Trans Nanobioscience. 2010 Jun;9(2):144-55. doi: 10.1109/TNB.2010.2043851.
4	**2008**	*Web and Grid Technologies in Bioinformatics, Computational and Systems Biology: A Review*	Current Bioinformatics, Volume 3, Number 1, January 2008 , pp. 10-31(22)
3	**2005**	*Development of Dynamic Hashing Key Generation Methods for Java Based Sindhi Programming Environment*	MUET Res. J. of Engineering & Technology, Vol. 24, No.2, April, 2005
2	**2004**	*Development of Computerized Sindhi to English and English to Sindhi Dictionary*	MUET Res. J. of Engineering & Technology, Vol. 23, No.4, October, 2004
1	**2004**	*Development of Parsing Methods for Java Based Sindhi Programming Environment*	Quaid-e-Awam University Res. Jour. Of Eng., Sci & Tech. Vol.5, No.1, Jan-June, 2004