

Curriculum Vitae

Dr. Muhamamd Ilyas

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01 Objective

My career objective is to become an accomplished researcher and team leader in the field of Software Engineering to serve humanity. To achieve this objective, I am keen to work with international experts in the area of software engineering in general and global software engineering in particular. I am highly organized and hard-working individual and wanted to fully utilize my training and skills, while making a significant contribution to the success of the organization.

Achievements Summary	
PhD Degree Earned	2017
Area	Global Software Engineering/ Empirical Software Engineering
Thesis Title	Software Integration Model for Global Software Development
PhD Supervisor	Dr. Siffat Ullah Khan, Associate Professor, University of Malakand, Pakistan. Email: siffat7@yahoo.com
Journals Publications	06
Conferences Proceedings	06
Submitted (under review)	03
Grand Total	15
PhD Co-Supervision	02
MPhil Co-Supervision	03
Total citations at Google Scholar (till date):	75 h-index: 05 i10- index: 03

02 Personal

Father's Name: Muhammad Israr
Qualification: Ph.D (Software Engineering)
Nationality: Pakistani
Address: V&P-O Julagram, Mohallah Darwaish khail,
Tehsil Batkhaila, District Malakand,KPK, Pakistan

03 Current Position

Assistant Professor of Computer Science

04 Academics

- **Ph.D Computer Science (with specialization in Software Engineering)- (2017)**
Department of CS&IT,
University of Malakand, Pakistan
- **M.S Computer Science (with specialization in Software Engineering)- (Session 2006-08)**
Institute of Management and Information Sciences,
CECOS University of IT &Emerging Sciences, Peshawar
- **M.Sc Economics(2009)**
University of Peshawar, Pakistan.
- **M.Sc Computer Science(1997)**
Department of Computer Science,
Gomal University, Dera Ismail Khan, Pakistan.
- **B.Sc. (Maths A, B and Computer Science) (1995)**
University of Peshawar, Pakistan.

05 Distinction

- Got 1st position in MS (course work).
- Got "Commendation" certificate from District Coordination Officer (DCO) Upper Dir, during my service as Asstt: Programe Officer.
- Got four consecutive travel grants from Higher Education Commission of Pakistan for presentation of research paper in international conferences, three during PhD and one after PhD.
- Got commendation from external examiner, Prof. Dr. Tony Clear, Auckland University of Technology Auckland, New Zealand, on PhD thesis.

The candidate is to be commended on a thorough and carefully executed piece of work that has navigated the literature with some rigour, compared the findings with practitioners' views, derived a model and evaluated that in practice settings. Therefore the candidate has demonstrated expertise in executing the research process and produced novel and useful outcomes.

06 Experience

Lecturer	Govt: Degree College Thana District Malakand	Oct-1998	Dec-2000
Lecturer	Govt College of Commerce Thana Malakand	Jan-2001	Mar-2003
Asst: Programmer	Finance & Planning Department District Government Upper Dir.	Mar-2003	Jun-2005
Responsibilities			
<ul style="list-style-type: none"> • Processing of non-Developmental and Developmental Budget and Annual Developmental Program (ADP) data for District Government. • Communication of information to Provincial Finance Department through dial-up network. • Worked as System and Database Administrator in District Finance Department Dir(U). • Collection, Tabulation, Computation, Analysis, Evaluation and Graphical representation of Data pertaining to the District Government Dir Upper. 			
MIS Specialist/ Programmer	Directorate of M&E, P&D Deptt., Civil Secretariat Peshawar.	Jul-2005	Apr-2008
Responsibilities			
<ul style="list-style-type: none"> • Development and Maintenance of MIS software tool for M&E Directorate • Preparation and presentation of data for monitoring relevant to ADP projects. • Supervision and maintenance of M&E Computer Cell. • Assisted officers regarding the computer related problems. • Assessment of Financial and Physical progress of the developmental projects. 			
Computer Instructor	Staff Welfare Organization, Establishment Division, Government of Pakistan	Apr-2008	Sep-2009
Responsibilities			
Imparting computer training to Federal Government Employees			
Lecturer/Assistant Professor of Computer Sc	Federal Government Institutions, Ministry of Defence, Government of Pakistan.	Oct-2009	Feb-2018
Responsibilities:			
<ul style="list-style-type: none"> • Teaching, ▪ Controller of Examination w.e.f 1-11-2009 to 2015, ▪ Member of purchase committee since w.e.f 1-11-2009 to Feb-2018, ▪ In-charge Principal during Jan & Feb 2010 and Jan & Feb 2013. 			
Assistant Professor of Computer Sc	Department of Computer Sc & I.T, University of Malakand, Chakdara Dir Lower.	Mar-2018	till Date

07 Theoretical Knowledge

- Software Verification and Testing
- Empirical Software Engineering
- Advance topics in Software Engineering
- Green Computing
- Research Methods
- Quantitative Data Analysis
- Qualitative Data Analysis
- Advanced Analysis of Algorithm
- Advanced Computer Architecture
- Advanced Operating Systems
- Advance Computer Networks
- Distributed Computing
- Theory of Computation
- Mobile & Wireless Networks
- Software Project Management
- Requirements Engineering
- Modern Internet Programming
- System Analysis & Design
- Data Base Management
- Management Information System
- Operating System
- Data Structure
- Digital Logic & Computer Design
- Microprocessor
- Artificial Intelligence
- Numerical Analysis

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- Micro Economics
 - Macro Economics
 - Public Finance
 - Mathematics for Economics
 - Statistics for Economics
 - Econometrics
 - Economic Analysis of Project Planning
 - Human Resource Development
 - Economic System of Islam

- Industrial Economics
- Operation Research & Mathematical Programming

08 Technical Knowledge

- Oracle JDeveloper 11g and Oracle APEX
- Microsoft SQL Server
- Java
- PHP & My SQL
- Java Script
- ASP.Net
- VB 6.0/VB.Net
- C/ C++
- Pascal
- COBOL
- FORTRAN
- Assembly Language
- Microsoft Office
- SPSS

09 Training's Obtained

- Training in “Web Page Designing and Advance Networking” from 12/09/2003 to 18/09/2003 by Iqra University Peshawar arranged by Finance Deptt., Govt: of NWFP.
- Training in “Budget Rules 2003” from 13/09/2004 to 16/09/2004 and 06/06/2005 to 07/06/2005 by DSP (Decentralization Support Program), arranged by Finance Deptt., Govt: of NWFP.
- Training in “Development Project Management System” (DPMS) from 26/09/2005 to 01/10/2005 by NWFP EIROP, arranged by P&D Deptt., Govt: of NWFP.
- Training in “System Analysis & Design” from 13/03/2006 to 08/04/2006 by Staff Training Institute, Establishment Department, Govt: of NWFP.
- Training in “Project Monitoring & Evaluation System” (PMES) from 17/12/2007 to 19/12/2007 by Projects Wing, Planning Commission and Asian Development Bank.

10 Subject Taught

- Software Verification and Testing
- Software Engineering

- Data Base Administration
- Data Structure
- Information and Communication Technologies (ICTs)
- C/C++
- Digital Logic
- Data Communication and Networks
- Operating System

11 Software Development

- Computerization of Combined Military Police(CMP) Record Wing at D.I.Khan (M.Sc Project).
- Software Development for DIR Travel Center at Timergara.
- Software Development for Amin Medicos at Timergara.
- Software Development for Fazal Rahim Clinical Laboratory at Timergara.
- “Gold Star”, general purpose software for Jewelers (Analog to Digital Converter).
- “Project Monitoring & Evaluation System” (PMES) for Directorate of M&E, P&D Department, Civil Secretariat Peshawar, Govt: of Khyber Pakhtunkhwa.
- Accounts Management System, for Shalimar Traders at U.A.E.
- Inventory Management System (IMS), general purpose software for inventory and accounts management.

12 Research Interest

- Software Security
- Software Integration
- Global Software Engineering
- Empirical Software Engineering
- Software Verification & Testing
- Agile Software Development
- Green Computing
- Deep Learning
- Cloud Computing

13 Research Supervision

Ph.D (Co-Supervision)

- Rafiq Ahmad Khan (Enrolled since 2017)
- Ghulam Murtaza Marwat (Enrolled since 2017)

M.Phil (Co-Supervision)

- Uzma Kanwal (Enrolled since 2016)

- Asifullah (Enrolled since 2018)
- Asif Khan (Enrolled since 2018)

17 Software Projects Supervised at BS level

1. UoM Budget Management System (2018)
2. UoM Thesis Management System (2018)
3. UoM Payroll Management System (2018)
4. Android Retail Management System (2018)
5. UoM Attendance Management System (2018)

18 Memberships /Association

- Member of software engineering research group University of Malakand (SERG_UOM).
- Reviewer and member of the technical committee of the International Conference on Computer and Technology Applications (ICCTA) former International Conference on Computer and Information Technology (ICCIT), American Society for Research (ASR).
- Reviewer of Journal of Software Evolution and Process(JSEP), UK.
- Reviewer of the IEEE Technology and Engineering Management Society (TEMS) publications Transactions on Engineering Management.
- Member of Technical Advisory Board, University of Sindh Journal of Information and Communication Technology (USJICT)

<http://sujo2.usindh.edu.pk/index.php/USJICT>

19 Research Publications

1. **Muhammad Ilyas** and Sifat Ullah Khan “Empirical Exploration of the Software Integration Success Factors in Global Software Development: Analyses based on Company Size and Practitioners’ Experiences”, *The Fourth International Conference on Fundamentals and Advances in Software Systems Integration (FASSI 2018), Venice Italy*, p. 6-11.
2. **Muhammad Ilyas** and Sifat Ullah Khan “An Empirical Investigation of the Software Integration Success Factors in GSD Environment”, *15th ACIS International Conference on Software Engineering Research, Management and Applications (SERA 2017), Greenwich University, London UK*.
3. **Muhammad Ilyas** and Sifat Ullah Khan “Software integration in global software development: Challenges for GSD Vendors”, *Journal of Software Evolution and Process (JSEP)*, 2017, 29(8): p.1-17.
4. **Ilyas, M.** and S.U. Khan, "Software integration challenges for GSD Vendors: An exploratory study using a systematic literature review". *Journal of Computers*, 2017. 12(5): p. 416-422

5. **Ilyas, M.** and S.U. Khan, "An Exploratory Study of Success Factors in Software Integration for GSD Vendors ". Proceedings of the Pakistan Academy of Sciences, 2016. 53(2): p. 239–253 (2016).
6. **Ilyas, M.** and S.U. Khan, "Practices for Software Integration Success Factors in GSD Environment", in 15th International Conference on Computer and Information Science (ICIS), 2016 IEEE/ACIS. 2016, ACIS and IEEE: Okayama, Japan. p. 1-6.
7. **Ilyas, Muhammad**, and Muhammad Younas. "Software integration practices for GSD vendors-A systematic literature review protocol", International Multi Topic Conference (IMTIC)2015, Mehran University Pakistan.
8. **M. Ilyas** and S. U. Khan, "Software Integration in Global Software Development: Success factors for GSD vendors," presented at 16th IEEE/ACIS International Conference on Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing (SNPD 2015), Takamatsu, Japan, 2015.
9. **Ilyas, M.**; Khan, S.U., "Software integration model for Global Software Development," *15th International Multitopic Conference (INMIC), 2012*, pp.452,457, 13-15 Dec. 2012 doi: 10.1109/INMIC.2012.6511461
10. Muhammad Ilyas Azeem, Siffat Ullah Khan, **Muhammad Ilyas**, Abdul Wahid Khan, "Intercultural Challenges in Offshore Software Development Outsourcing Relationships: A Systematic Literature Review Protocol with Preliminary Results", International Journal of Advanced Science and Technology (IJAST), Vol. 46, (September, 2012), PP 175-186.
11. **Muhammad Ilyas**, Siffat Ullah Khan, "Software Integration Challenges in Global Software Development Environment: a Systematic Literature Review Protocol", IOSR Journal of Computer Engineering (IOSRJCE), ISSN : 2278-0661 Volume 1, Issue 6 (July-August 2012), PP 29-38
12. Abdul Wahid Khan, Siffat Ullah Khan, **Muhammad Ilyas**, Muhammad Ilyas Azeem, "A Literature Survey on Data Privacy/ Protection Issues and Challenges in Cloud Computing", IOSR Journal of Computer Engineering (IOSRJCE), ISSN : 2278-0661 Volume 1, Issue 3 (May-June 2012), PP 28-36

20 Conference Presentations:

1. Presented paper at 15th International Multitopic Conference (INMIC), 2012 , Islamabad.
2. Presented paper at 16th IEEE/ACIS International Conference on Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing (SNPD 2015), Takamatsu, Japan, 2015.
3. Presented paper at 2nd International Conference on Computer and Information Technology (ICCIT2016) Istanbul, Turkey.

4. Presented paper at 15th ACIS International Conference on Software Engineering Research, Management and Applications (SERA 2017), Greenwich London, United Kingdom.

21 Hobbies/Extracurricular activities

- Protection of environment
- To raise awareness among the people
- Self organized and self motivated
- Social Development
- Reading Books
- Visiting National and International spots

22 Languages

1. English
2. Urdu
3. Pushto
4. Arabic

23 Countries visited

1. UAE
2. Japan
3. Turkey
4. UK

24 References

- Dr. Siffat Ullah Khan, Associate Professor and PhD supervisor, Department of CS & IT, University of Malakand. Email. Siffat7@yahoo.com, Mob. +92 345 9346744.
- Prof.Dr. Jamil Ahmad, Professor/Chairman, Department of CS & IT, University of Malakand. Email.dr.ahmad.jamil@gmail.com Mob. +92 340 9140680.
- Prof.Dr. Gul Zaman, Vice Chancellor, University of Malakand. E.Mail. gzaman@uom.edu.pk, Mob. +92 343 8970237.