

Dr. Muhammad Shahab Siddiqui

Personality Description

I am and like to be a Researcher and Professional. Enjoying working at challenging and cooperative environment. Being a good team player and can work alone as well. Being an organized person, like to see projects and research to be well organized and targeted. Being affiliated to different professional institutions satisfies my thirst of research. Having experience of more than 18 years of teaching and software development.

Education

2005-2013 **GSESIT, FEST, Hamdard University** Karachi

• Ph.D., Computer Science

Thesis Title: "Community Algorithm – Classification of users and their roles in a community by their Level of Interaction"

2004-2005 **CEWS, University of Karachi** Karachi

• M.A., Women Studies

Thesis Title: "Female Executives – How strong are they in Decision Making?"

1992-1999 **FAST ICS** Karachi

- M.C.S., Computer Science (1996-99)
- B.C.S., Computer Science (1992-95)

1990-1991 **Govt. Dehli Science College** Karachi

• H.S.C., Pre-engineering group

1988-1989 **Saint Judes' High School** Karachi

• S.S.C., Science group

Funded Projects

- 1. GEP Grant 2014/007-B/222, Asia Foundation, "Empowering Women with Information Technology Skills", Funding Amount US \$107,000
- 2. IEEE EPICS, "Analytical Application for Baseline Survey", Funding Amount US \$3,000

Conference Session Chair

- 1. Session Chair, in IEEE SCONEST 2016, Hamdard University, Karachi, December 14-15, 2016
- 2. Session Chair, in ICCMS 2017, Sukkur IBA, February 25-26, 2017
- 3. Technical and Session Co-Chair, in IEEE ICIEECT 2017, Indus University, Karachi, April 05-07, 2017

Work Experience (Academia)

February 2015–todate Jinnah University for Women Karachi Visiting Faculty Member (February 2015 – March 2015)

Professor (March 2015 – Todate)

- Member of Board of Studies, Board of Faculty, BASR and Academic Council
- Taught Artificial Intelligence, Computer Graphics, Software Requirement Engineering, Programming Fundamentals and Introduction to Computer courses to BS (CS) and BS (SE) Final Year
- Supervising BS (CS) and BS (SE) Final Year Projects Chairperson, CS&IT Dept (March 2015 November 2016)
- Managing a department of 20+ female faculty members and 450+ female students
- Chairperson of **Board of Studies** of CS&IT department
- Member of Board of Faculty and Academic Council

Dean, Faculty of Science (August 2015 – Todate)

- Managing the faculty of 80+ female faculty members and 2,000+ female students
- Chairperson of **Board of Faculty** of Science
- Member of **BASR** and **Academic Council**
- Taught **Bio-Informatics** course in **Biochemistry** department

Chairperson, Zoology Dept (May 2017 – October 2017)

- Managing a department of 7 female faculty members (including 5 PhD Zoology) and 200+ female students
- Chairperson of **Board of Studies** of Zoology department
- Member of Board of Faculty and Academic Council

August 2007–March 2015 **HIET, FEST, Hamdard University** Karachi **Visiting Faculty Member (August 2007 – February 2011) Assistant Professor (March 2011 – November 2014)**

Associate Professor (December 2014 – March 2015)

- Member Departmental Research Committee, Board of Studies and Board of Faculty
- **GEC member** of PhD Scholars
- Taught **Software Engineering** course by Software Engineering, Principles and Practice Roger S. Pressmen (5 times)
- Taught **Computer Graphics** course by Computer Graphics, Principles and Practice Foley, van Dam, Feiner and Hughes (5 times)
- Taught **Artificial Intelligence** course (5 times)
- Taught **Data Structures** course (2 times)
- Taught **Database Management System** course (2 times)
- Taught Compiler Construction course
- Taught Computer Programming course
- Taught **Technical Report Writing** course
- Taught **Object Oriented Programming** course by Programming in C++ Robert Laforre
- Taught **Analysis and Design of Algorithms** course by Introduction to Algorithms Thomas H. Cormen
- Supervised BS (CS) Final Year Projects

Sept. 2000 – Feb. 2011 GSESIT, FEST, Hamdard University Karachi Visiting Faculty Member (Sept 2000 – Jan 2001) (Sept 2016 – Jan 2017) Assistant Professor (February 2001– February 2011)

- Taught **Software Engineering** course by Software Engineering, Principles and Practice Roger S. Pressmen (6 times)
- Taught **Operating Systems** course by Operating Systems Andrew S. Tanenbaum (6 times)
- Taught **Graphics Programming** course by Computer Graphics, Principles and Practice Foley, van Dam, Feiner and Hughes (4 times)
- Taught **Software Project Management** course by Software Project Management Walker Royce (2 times)
- Taught Object Oriented Programming and Programming

in C++ course by Programming in C++ – Robert Laforre (2 times each)

- Taught Advance Topics of Software Engineering and Special Topics of Software Engineering courses (2 times each)
- Taught Information System Management in Practice, Advanced Software Engineering and Artificial Intelligence courses
- Taught Introduction to Informatics course from Computer and Information Systems, 5th Edition by Hutchinson and Sawyer
- Taught Algorithm Design and Advanced Programming and Algorithm course by Introduction to Algorithms – Thomas H. Cormen
- Taught **Expert Systems** course by Expert Systems and Applied Artificial Intelligence Efraim Turban
- Conducting **seminars** on Software Engineering and Advance Topics of Software Engineering
- Supervised number of MS (IT) and BS (MIS) Final Projects/Thesis

Oct. 2000–Feb. 2001 **Usman Institute of Technology** Karachi **Visiting Faculty Member**

- Taught **Software Engineering-I** course by Software Engineering, Principles and Practice Roger S. Pressmen
- Conducting workshops on different CASE tools and development packages
- Managed different course projects

Sept. 2000–Jan. 2001 KASB Institute of Technology Karachi Visiting Faculty Member

- Taught **Computer Concepts** course from Computer and Information Systems, 5th Edition by Hutchinson and Sawyer
- Managed presentations and group tasks

August 2000–Jan. 2002 FAST ICS (NUCES) Karachi

August 2008–Jan. 2009 FAST ICS (NUCES) Karachi

Visiting Faculty Member

- Taught Computer Graphics course by Computer Graphics, Principles and Practice – Foley, van Dam, Feiner and Hughes (5 times)
- Managed different course projects, research papers and seminars
- Conducted workshop on Flash, Adobe PhotoShop, Adobe Illustrator, Macromedia Dream Weaver, and other Graphics tools
- Supervised two Final Year Projects of BS (CS) and one Project of MS (SPM)

Feb. 2000–June 2000 College of Management & Info. Tech. Karachi

Visiting Faculty Member

- Taught Computer Graphics course by Computer Graphics -F.S. Hill, Jr.
- Took **Labs** to explore tools like AutoCAD, Adobe PhotoShop
- Conducted workshop on graphic JAVA Mastering the AWT Class

Work Experience (Industry)

Nov. 1997–July 2000 Millennium Software (Pvt) Limited Karachi **Executive Software Engineer**

- Involve in the designing and development of Enterprise Resource Planning System for Habib Oil Mills, Pakistan using the development platform of Oracle 8.0 and Developer/2000 (Forms 6.0, Reports 6.0). The Sub Systems in which I was involved were Human Resources, Payroll, Financials, Inventory, Depreciation, and Medical
- Involved in the designing and development of MSL Human Resources System including Personnel, Payroll, Income Tax, Provident Fund, Pension, Gratuity, and other Subsystems using the development platform of Oracle 7.0 and Developer/2000 (Forms 4.5/5.0, Reports 2.5/3.0)
- Developed Password Generator for WebNet Pakistan (ISP) in C/C++
- Completed **Visual C++** Project **BCAST** for **US Client**. Mainly comprise of Screen Capturing, Broadcasting,

Compression and Decompression b/w active and passive users

- Involved in **Networking** of the using Windows NT at server end and Windows 95/98/NT WS at client end
- Completion of following **Y2K Projects** as a **Team Leader**:
- **Hoechst AgrEvo** ten Applications in RPG/400 and RPG II
- **JDA Factory Card** Outlet in RPG/400
- Ugly Duckling from KPMG Chicago RPG/400 & RPGLE
- General Ledger System in COBOL
- Two other Mainframe Projects in COBOL
- Trained on **Micro Focus Year 200**0 tools (Revolve/2000, Smart-Find/2000 and Workbench/2000 including CICS, IMS, SQL, and DB2) at Global InfoTech

May 1997–Oct. 1997 Prudential Commercial Bank Limited Karachi
Officer Grade III

- Maintenance of Pioneer International Banking Application
 System's (PIBAS) Banking Software
- Development and maintenance of General Ledger Software System used for 10 Group Companies and was developed inhouse
- Maintenance and handling of Kutub Navees Library System for Rahmatul-lil-A'lameen Research Center & Reference Library
- Day-to-day assignments given by the Divisional Head

April 1996–April 1997 Prudential Investment Bank Limited Karachi **Programmer Officer**

- Development of **Portfolio Management System**
- Development of Foreign Currency Forward Contract Management Information System
- Development of Daily Statement of Affairs
- Day-to-day assignments given by the CEO

Field of Interests

Community Algorithm, Software Engineering, Artificial Intelligence, Software Project Management, Computer Graphics, Programming and Algorithms

Professional Affiliation

- Member and Volunteer of The Institute of Electrical and Electronics Engineers, IEEE Inc. USA since 1998
- Vice Chairman, IEEE Karachi Section (2014-15, 2010-2011)
- Secretary, IEEE Karachi Section (2016-Now)
- Secretary/Treasurer, IEEE Karachi Section (2012-2013)
- Branch Councilor of IEEE GSESIT Student Branch
- Life Member of Computer Society of Pakistan (CSP)
- Council Member of Computer Society of Pakistan (CSP) Karachi Chapter
- Membership and Scholarship Coordinator of International Organization of Pakistani Women Engineers (IOPWE)
- Work towards organizing **SEARCC '94 Exhibition and Competition** with Computer Society of Pakistan and Big Bang Communication, Karachi

• Work towards organizing "Millennium Technologies" Conference by IEEE Inc. USA, Karachi Section, on Nov. 27, 1999

- Work towards organizing "eTechnologies vision and challenges" Conference by IEEE Inc. USA, Karachi Section, on Nov. 25, 2000
- Work towards organizing "International Multi-Topic Conference (INMIC) 2002 (KIIT), INMIC 2005 (FAST NU), INMIC 2008 (Bahria University), INMIC 2011 (SSUET), and INMIC 2014 (Bahria University)" Conference by IEEE Inc. USA, Karachi Section, in December 2002, 2005, 2008, 2011, and 2014 respectively
- Work towards organizing "Student Conference on Engineering Sciences and Technology 2003" Conference by IEEE Inc. USA, Karachi Section, on Oct. 9-11, 2003
- Presentations at different Student Congresses and conferences of IEEE Inc. USA, PSC 2007, PSC 2008, KSSC 2008, PSC 2009, eIndus 2009, and SCONEST 2011

IEEE and other Activities