

Dr. Engr. Maria Andleeb Siddiqui
Associate Professor
Dept. of Computer Science and IT
NED University of Engineering and Technology
Cell no: 03343742184
Email id: mandleeb1307@gmail.com, mandleeb@cloud.neduet.edu.pk

CAREER OBJECTIVE:

To succeed in an environment of growth and excellence and earn a job which provides me job Satisfaction and self development and help me achieve personal as well as organization goals.

CAREER GOALS:

My goals are as follows:

- To upgrade knowledge for comprehensive growth on professional level.
- To earn promotion
- To pick up and learn new skills
- To be known as an expert in certain field

EDUCATION:

- **ACADEMIC:**
 - 1) Doctor of Philosophy, **Computer Science**, N.E.D university of Engineering and Technology Karachi, December 2019.
 - 2) Masters of Engineering, **Computer Network and performance Evaluation**, N.E.D university of Engineering and Technology Karachi, June 2011- December 2013, CPGA: 3.7/4 G.P, Third Position.
 - 3) Bachelors of Engineering, **Telecommunication**, N.E.D University of Engineering and Technology Karachi, December 2006-December 2010, with 81%.
 - 4) Intermediate: P.E.C.H.S Govt College for women, Pre-Engineering group, 2004-2006, with 84%.
 - 5) Matriculation: Sadequain Jauhar Academy, Science group, 2002-2004, with 85%.

FINAL YEAR PROJECT:

GSM air interface network monitoring and management system.

Ph.D. THESIS TOPIC:

A Machine Learning Approach to Speech Emotion Recognition of Normal and Autistic Children, under supervision of Dr. Najmi Ghani Haider and Co-Supervision of Dr. Syed Abbas Ali.

EXPERIENCE:

- 1) Working as Associate Professor, in NED University of Engineering and Technology, Department of Computer Science and Information Technology, 6th October 2025- till date
- 2) Worked as Assistant Professor, in **NED University of Engineering and Technology**, Department of Computer Science and Information Technology, 7th December 2019 to 6th October 2025.
- 3) Worked as **Full time Faculty Lecturer** in **NED University of Engineering and Technology**, Department of Computer Science and Information Technology, 1st June 2016 to 7th December 2019.
- 4) Worked as **Full time Faculty Lecturer** in **Usman Institute of Technology**, Computer Engineering Department, from 17th April 2014 to 21th June 2016.
- 5) Worked as **Lab Engineer** in **D.H.A Suffa University** in Electrical Engineering Department, from September 2nd 2013 to 20th April 2014.
- 6) Worked as a **Teaching Associate** in **Institute of Business Management IoBM (CBM), College of Engineering and Sciences**, from July 3rd 2012 to August 31st 2013.

- 7) **Visiting Faculty Lecturer in Institute of Business Management**, taught courses of “Business Information Technology” and “Information System Management” of MBA-MIS, from 25th January 2014 to 31st December 2014.

PUBLICATIONS and CONFERENCES ATTENDED:

- 1) Maria Andleeb Siddiqui, Hammad Kamal, Syed Abbas Ali, “**Securing Storage as a Service Model in Cloud using Client Authentication in Virtualized Environment**” International Conference on Engineering and Emerging Technologies, Lahore, March 2014.
Available:
<http://www.superior.edu.pk/CEET/pdf/research/DevCS/Securing%20Storage%20as%20a%20Service%20Model%20mariasiddiqui88@yahoo.com.pdf>
- 2) Maria Andleeb Siddiqui, Hammad Kamal, “**A Proposed Approach for Deploying NAS attached storage by configuring virtual switch in ESXi** ” International Journal of Scientific and Engineering Research, volume 5, June 2014.
- 3) Maria Andleeb Siddiqui (et.al) “**Impact of Management Information System Implementation Using Virtualized Oracle Database on Manufacturing Enterprises: A Case Study**” International Journal of Scientific and Engineering Research, volume 5, August 2014.
- 4) Syed Abbas Ali, Maria Andleeb Siddiqui, Anas Khan, “**Analyzing the influence of Prosodic Features on Emotional states Recognition in Regional Languages of Pakistan**” , International Multi-Topic Conference, Jamshoro, 2015.
- 5) Maria Andleeb Siddiqui, Dr. Najmi Ghani Haider, Hammad Kamal, “**Investigating the effect of emotions and sampling frequency on First and Second Formant using Two-way ANOVA in Urdu Language**” International Conference on Engineering and Emerging Technologies, Lahore, March 2015.
Available:
http://www.superior.edu.pk/ICEET/pdf/research2015/submission_137.pdf
- 6) Maria Andleeb Siddiqui, Syed Abbas Ali, “**A Study on the Hourly Behavior of Key Performance Indicators of Global System for Mobile Communications**”, Journal of Emerging Trends in Computing and Information Sciences, Volume 6, No. 3, March 2015.
- 7) Maria Andleeb Siddiqui, Mashal Tariq, Shehla Andleeb, “**A survey on Women participation in Experiential Learning for engineering Profession Development**”, International Conference on Women in Development, Institute of Business Management , Karachi, 11-12 November, 2015.
- 8) Syed Abbas Ali, Maria Andleeb Siddiqui et.al, “**Performance evaluation of loss function for margin based robust speech Recognition**” International Journal of Advanced Computer Science and Applications (IJACSA), ISI indexed journal, Volume 7, No.2, March 2016.
- 9) Syed Abbas Ali, Maria Andleeb Siddiqui et.al, “**A Study of the Effect of Emotions and Software on Prosodic Features on Spoken Utterances in Urdu Language**” International Journal of Image, graphics and signal processing (IJIGSP), (MECS publisher), volume 8, No.4, April 2016.
Available:
<http://www.meecs-press.org/ijigsp/ijigsp-v8-n4/IJIGSP-V8-N4-6.pdf>
- 10) Syed Abbas Ali, Najmi Ghani Haider, Maria Andleeb Siddiqui, “**Evaluating the performance of Learning Classifiers and Effect of Emotions and spectral features of speech utterances**”, Internal Journal of Computer Science and Information Security, volume.14, No.10, October 2016.
- 11) Wajahat Hussain, Maria Andleeb Siddiqui, Najmi Ghani Haider “**An Overview of Customer Relationship Management Software in Business Organizations**”, Pakistan Journal of Engineering Technology and Science, Vol.6, No, 2, 2016.
- 12) Wajahat Hussain, Maria Andleeb Siddiqui, Najmi Ghani Haider, “**Implementation of Contact Management Software (CMS) and Its Integration with Social Networks**”, 5th IEEE Student Conference on Engineering Sciences and Technology (SCONEST 2016), Hamdard University, 14-15 December 2016.
- 13) Wajahat Hussain, Maria Andleeb Siddiqui, Najmi Ghani Haider, “**An implementation of FPGA based data acquisition card (DAQ) for industrial parameter control**”, 1st international conference on Innovations in Computer Science and Software Engineering, NED University of Engineering and Technology, 15-16 December 2016.
- 14) Wajahat Hussain , Maria Andleeb Siddiqui, “**A case study on Decision Support System in Banks**”, First international Conference on Industrial Engineering and Management Applications, Mehran University of Engineering and Technology, Jamshoro, 20-22 February, 2017.

- 15) Maria Andleeb Siddiqui, Najmi Ghani Haider, Saman Hina, Syed Abbas Ali, **“A Novel Approach for Features Extraction Towards Classifying Normal and Special Children Speech Emotions in Urdu Language”**, International Journal of Computer Science and Network Security, VOL.17 No.7, July 2017 .
- 16) Maria Andleeb Siddiqui, Najmi Ghani Haider, Syed Abbas Ali, **“Reduced Feature Set for Emotion Based Spoken Utterances of Normal and Special Children Using Multivariate Analysis and Decision Trees”**, Engineering Technology and Applied Science Research”, vol.8, No.4, 2018.
- 17) Maria Andleeb Siddiqui, Wajahat Hussain, Syed Abbas Ali, Danish ur Rehman, **“Performance Evaluation of Deep Autoencoder Network for Speech Emotion Recognition”**, International Journal of Advanced Computer Science and Applications, vol.11, No.2, 2020. ISSN: 2156-5570, ISI Indexed.
- 18) Muhammed Ali Akhter, Syed Abbas Ali, Maria Andleeb Siddiqui, **“Speech Feature Selection of Normal and Autistic children using Filter and Wrapper Approach”**, Inter International Journal of Computer Science and Network Security, accepted to publish in Vol.21, No.5, May 2021. ISSN: 1738-7906. ISI indexed.
- 19) Waseemullah ,Hyder, Muhammad Faraz, Maria Andleeb Siddiqui, and Muhammad Mukarram. **“TV Ad Detection Using the Base64 Encoding Technique.”** Engineering, Technology & Applied Science Research 11, no. 5 (2021): 7605-7609.
- 20) Waseemullah; Fatima, Z.; Zardari, S.; Fahim, M.; Andleeb Siddiqui, M.; Ibrahim, A.A.A.; Nisar, K.; Naz, L.F. **A Novel Approach for Semantic Extractive Text Summarization.** Appl. Sci. 2022, 12, 4479. [Impact Factor: 2.697]
- 21) Muhammad Ali Akhtar, Syed Muhammad Owais Qadri, Maria Andleeb Siddiqui, Syed Muhammad Nabeel Mustafa, Saba Javaid, Syed Abbas Ali , **“Robust genetic machine learning ensemble model for intrusion detection in network traffic”**, Scientific Reports, April 2023. [Impact Factor:5.2].
- 22) Abdul Karim Kazi, Maria Andleeb Siddiqui, Muhammad Saad Ahmed, Raheela Asif , Syed Muhammad Nabeel Mustafa, **“Predictive Healthcare Analysis of Pakistan’s COVID-19 Pandemic Using Data Mining and Time Series Modelling”** Pakistan Journal of Engineering, Technology & Science.pp.74-84, 2024.
- 23) Abdul Karim Kazi, Muhammad Ahmed Zaki, Maria Andleeb Siddiqui, **“ Fuzzy Logic and Neural network-based self- tuned PID controller of Quadcopter”**, Pakistan Journal of Emerging Science and Technologies (PJEST), pp.49-63. 2024.
- 24) Maria Andleeb Siddiqui , Najmi Ghani Haider , Waseemullah , Syed Muhammad Nabeel Mustafa, **“Hybrid model for speech emotion recognition of normal and autistic children (SERNAC)”**, Mehran University Research Journal of Engineering and Technology, Jan 2024.
- 25) Maria Andleeb Siddiqui, **“Women Participation in enhancing STEM careers”**, 2nd NED Women Conference, 6th-7th November, NEDUET

CERTIFICATIONS /AWARDS and ACTIVITIES:

- 1) Awarded certificate of participation in **“Network Management Competition”** of TechElite held by Computer and Information System Department, N.E.D University of Engineering and Technology on 29th April 2010.
- 2) Awarded certificate of participation in one day workshop on **“Experiential Learning In Business Education”** held on 16th February 2013 at Institute of Business Management.
- 3) Awarded Certificate on 2 months course of **“Basic Networking And Virtualization”** by Times Technology on 10th June 2013.
- 4) Awarded Certificate on 3 months course of **“Software Engineering (Database Development .Net With C#, Sql Server 2013, Ado.Net)”** by Center of Continuing Engineering, N.E.D University of Engineering and Technology” held from 1st September 2013 to 1st December 2013.
- 5) Awarded certificate on attending Interactive workshop on **“Cpd Framework for Professional Development of Engineers”**, held on 27th August 2014 at Indus University, Karachi.
- 6) Awarded certificate on attending seminar on **“Community Algorithm”**, held on 6th September 2014 at Indus University, Karachi.
- 7) GAT subject certificate. **(89.9 percentile score)**
- 8) Awarded **“Best Faculty Portfolio Award”** certificate From Director Usman Institute of Technology on 20th November 2015.
- 9) Awarded certificate of Participation on **“Professional Development Programme”**, held at NED University of Engineering and Technology, Quality Enhancement Cell, 5-27th November, 2015.
- 10) Research Grant **MoST endowment Fund Rs. 3.0 Million**, 2016-2019.

- 11) Awarded certificate of Participation on “**Technical Computing with MATLAB**”, held at NED University of Engineering and Technology, 26-28 September, 2016.
- 12) Awarded certificate of Participation on “**Technical Writing with Latex**”, held at NED University of Engineering and Technology, 26-28th December, 2016.
- 13) Awarded Certificate of “**ASSET postgraduate scholar Award**” by American Society of Science, Engineering and Technology, August 2021.
- 14) Awarded Certificate of Participation in **Sindh HEC showcase 2022**, 19-20 May 2022.
- 15) Awarded certificate **by National Idea Bank on winning the city level competition** in sector Information Technology panel 7 in December 2022.
- 16) Awarded certificate of participation in two days workshop on **Faculty Development in STEM Education** on 26th-27th April 2024.
- 17) Awarded certificate of participation in seminar on **Academia and industrial linkages** on 31st May 2024.
- 18) Participated as Focal Person from CS&IT department in **1st National Leadership conference on Industrial Linkages** on 3rd August 2024.
- 19) Awarded certificate of participation in seminar on **Revamped QA Framework** on 5th June 2024.
- 20) Awarded certificate of participation in seminar on **Effective Communication Skills/Email Writing Skills** on 29th November 2024.
- 21) Awarded certificate of participation in seminar on **Using Generative AI Tools In Office Work** on 17th December 2024.

RESPONSIBILITIES:

- 1) Served as ORIC departmental coordinator of CS&IT dept. from September 2022-September 2024.
- 2) Serving as OBE Coordinator of CS&IT dept. from September 2024.
- 3) Serving as NCEAC Accreditation body Focal Person of CS&IT department from September 2024.

TOOLS, SOFTWARE AND PROGRAMMING LANGUAGES:

• LANGUAGES:

- 1) Languages:
 - i. C-Language
 - ii. C++ Language
 - iii. KML

- 2) Microsoft Office.

• INFORMATION SYSTEMS:

- 1) Learning Management System
- 2) Oracle People Soft
- 3) Student Information Management System

TOOLS:

- 1) Multisim
- 2) PRAAT
- 3) Ps-pice
- 4) Packet tracer.
- 5) MATLAB
 - 6) Visual Studio 2010.
 - 7) Code Blocks 12.11
 - 8) GNS-3
 - 9) VMware workstation.

MEMBERSHIP:

- 1) Registered in Pakistan Engineering council with registration number Tele/3013.
- 2) Registered as Associate Member in IEEE with registration number AM-1465.
- 3) Enrolled as Registered Graduate for life in NED University, under NED University Act 1977, with registration number 1733.

PERSONAL INFORMATION:

Date of birth: 13th August 1988

Place of birth: Karachi

Domicile: Sindh (Urban)

Marital status: Married

NIC number: 42201-1996539-0

Husband's name: Engr. Wajahat Hussain