

# Saima Khairuddin Tunio

Lecturer

Information Technology Centre  
Sindh Agriculture University Tandojam  
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## EDUCATION

1. **PhD (Software Engineering) – 2019-Continue.**  
Beijing University of Technology. Beijing-China.
2. **MS (Information Technology) Hons (3.3 CGPA)** Dissertation entitled “Custom Graphical Visualization of Parameters for Health Monitoring Applications) (January 2016)  
**Isra University, Hyderabad - Pakistan**
3. **BS (Information Technology (3.9 CGPA) (2002-2006)**  
Sindh Agriculture University, Tando Jam - Pakistan  
**Won Chancellor’s Gold Medal and Secured 1<sup>st</sup> Position**

## EXPERIENCE

1. **Lecturer** (February 2017 to Present)  
**Major Responsibilities**
  - Teaching undergraduate & Postgraduate students of ITC (theory and practical courses)
  - Worked as Coordinator of Undergraduate student of ITC (6 months)
  - Supervise to postgraduate student for Dissertation and prototype
  - Supervise undergraduate final year student Projects.
2. **LAN Technician** (September 2009 to Feb 2017)  
**Sindh Agriculture University, Tando Jam - Pakistan**  
**Major Responsibilities**
  - Maintain, troubleshoot & supervise video conference sessions.
  - Identifies, troubleshoots and resolves hardware, software and network-related
  - Problems encountered by end-users of the university network.
  - Identifies, discusses, troubleshoots and resolves technically issues of voice Network.
  - Act as Resource person to share expertise of “MS OFFICE” with IoT HEC-SAU Training participants
  - **Teach theory and practical subjects of BSIT final year students as Additional Teaching Assignment (2012 to 2016).**
  - Served as **Resource person** for Short Course “OFFICE AUTOMATION” in evening time October and November 2014
  - **Tabulator** as additional assignment at Examination Branch of Sindh agriculture University (2010-2012).
3. **Intern – Support to Scientific Talent (HEC)** (July 2008 to July 2009)  
**Sindh Agriculture University, Tando Jam - Pakistan**  
**Major Responsibilities**
  - **Teaching assignment**
    - a. Subject Taught:
      - i. E-commerce (Theory, Practical)
      - ii. Web Design and Development (Theory, Practical)

- iii. Client & Server Technologies (Theory, Practical)
  - Troubleshoot Network related issues.
  - Maintain and Troubleshoot Video Conference sessions.
- 4. **IT Officer-NIP Intern** (December 2007 to June 2008)  
**Directorate General Research, Tando Jam**  
**Major Responsibilities**
  - Secured the network from the Internet and within the organization
  - Provide training to end users to enable them to operate IT systems correctly
  - Assist with the selection and purchase of IT equipment as required, in accordance with IT and purchasing strategy.
  - Managing IT responsibilities, making Schedule, performance analyzer, weekly and monthly progress reports.
  - Design and make magazines, Booklets and newsletters in English and Sindhi.
- 5. **IT Trainer-Intern** (May 2007 to August 2007)  
**Liaquat University of Medical & Health Sciences, Jamshoro - Pakistan**  
**Major Responsibilities**
  - **Instruct** students/faculty/administration staff on basic computer skills including keyboarding, Microsoft Office and operating system use.
  - Guide tour of Internet use and etiquette; proper email distribution, usage, and sending.

### **HONORS, AWARDS, AND ACHIEVEMENTS**

- Won **Chancellor's Gold Medal**, certificate, and cash prize for securing 1st Position in BSIT(Hons)
- Shield and Certificate on securing **2nd Position in 3 Days "2nd Technical Training of Video Conference Setup"** at Higher Education Commission Islamabad
- Certificate awarded for One Day Workshop on Network Performance Monitoring for PERN (By: SEECS-NUST)
- **Award of one year teaching assignment in HEC mega project "Support to Scientific Challenges"** in information Technology Centre, Sindh Agriculture University Tandojam.

### **Publications**

- **S Tunio, H Kazi, S Qureshi. Customization of Graphical Visualization for Health Parameters in Health Care Applications.** (DIO): 10.14569/IJACSA.2017.080913
- Pinal Khan Butt, M. Khalid Shaikh, Mubina Pathan, Irfan Ali Shahani, **Saima Tunio** and Sirajuddin Qureshi. **Social Network Chatting Apps Network Traffic Optimization** DOI: 10.17485/ijst/2018/v11i4/120548
- Qureshi, Sirajuddin, Gordhan Das **Saima Tunio**, Faheem Ullah, Ahsan Nazir, and Ahsan Wajahat. **"Performance Analysis of Open-Source Solution—ntop for Active and Passive Packet Analysis Relating to Application and Transport Layer.** DOI: 10.14569/IJACSA.2019.0100304
- M H Rajput, P K Butt, **Saima Tunio**, Z A Mahar, Sirajuddin Qureshi. **SOAF Architecture Adoption on Clinical Decision E-Healthcare System** DOI: 10.26692/SURJ/2019.09.64
- Qureshi, Sirajuddin, Jingsha He, **Saima Tunio**, Nafei Zhu, Faheem Akhtar, Faheem

Ullah, Ahsan Nazir, and Ahsan Wajahat. **"Browser Forensics: Extracting Evidence from Browser Using Kali Linux and Parrot OS Forensics Tools."** *International Journal of Network Security* 24, no. 3 (2022): 557-572.

- Qureshi, Sirajuddin, Jianqiang Li, Faheem Akhtar, **Saima Tunio**, Zahid Hussain Khand, and Ahsan Wajahat. **"Analysis of Challenges in Modern Network Forensic Framework."** *Security and Communication Networks* 2021 (2021).
- Baig, Amber, Mutee U. Rahman, Sehrish Abrejo, Sirajuddin Qureshi, **Saima Tunio**, and Shadia S. Baloch. **"Bootstrapping Dependency Treebank of Urdu Noisy Text."** *International Journal* 9, no. 8 (2021).
- Tabbassum, Kavita, Shahnawaz Farhan, Suhni Abbassi, Zulfiqar Maher, and **Saima Tunio**. **"Random Sampling SPM Management Algorithm For Single Processing Core."**
- Abbasi, Suhni, Kavita Tabbassum, Hameedullah Kazi, **Saima Tunio**, and Sirajuddin Qureshi. **"Investigating Student's Obstacles While Learning Object Orientation."** *INTERNATIONAL JOURNAL OF SCIENTIFIC & TECHNOLOGY RESEARCH* 6 (2021): 7-11.
- Qureshi, Sirajuddin, Jingsha He, **Saima Tunio**, Nafei Zhu, Faheem Ullah, Ahsan Nazir, and Ahsan Wajahat. **"An Adaptive Multi-Layer Architecture for IoT based IDPS for Attacks using Deep Learning Method."** *International Journal of Network Security*.
- Baig, Amber, Mutee U. Rahman, Sirajuddin Qureshi, **Saima Tunio**, Sehrish Abrejo, and Shadia S. Baloch. **"Towards Silver Standard Dependency Treebank of Urdu Tweets."** *International Journal* 10, no. 3 (2021).
- Qureshi, Sirajuddin, **Saima Tunio**, Faheem Akhtar, Ahsan Wajahat, Ahsan Nazir, and Faheem Ullah. **"Network Forensics: A Comprehensive Review of Tools and Techniques."** *International Journal of Advanced Computer Science and Applications* 12, no. 5 (2021).
- Qureshi, Sirajuddin, Jingsha He, **Saima Tunio**, Nafei Zhu, Faheem Akhtar, Faheem Ullah, Ahsan Nazir, and Ahsan Wajahat. **"A hybrid DL-based detection mechanism for cyber threats in secure networks."** *IEEE Access* 9 (2021): 73938-73947.
- Ghulam, Ali, Rahu Sikander, Dhani Bux Talpur, Erum Saba, Mir Sajjad Hussain Talpur, Zulfikar Ahmed Maher, and **Saima Tunio**. **"IDENTIFYING MOLECULAR FUNCTIONS OF DYNEIN MOTOR PROTEINS USING EXTREME GRADIENT BOOSTING ALGORITHM WITH MACHINE LEARNING."** *Journal of Mountain Area Research* 8 (2022): 1-13.
- Rahu, Sikandar, Ali Ghulam, Ali Farman, Dhani Bux Talpur, Mir Sajjad Hussain Talpur, Erum Saba, Zulfikar Ahmed Maher, and **Saima Tunio**. **"UBI-XGB: IDENTIFICATION OF UBIQUITIN PROTEINS USING MACHINE LEARNING MODEL."** *Journal of Mountain Area Research* 8 (2022): 14-26.