

# Dr. Zafar Saeed

Assistant Professor, UCP, Lahore, Pakistan

## Contact Information

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## Career Objectives

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I aim to explore the area of my research interest by applying my educational and professional experience so that, I can contribute in creating, organizing and utilizing the knowledge to improve productivity and efficiency of the institution.

## Education

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- 2013-2020     **Ph.D. (Computer Science)**, Quaid-i-Azam University, Islamabad, Pakistan  
**Thesis:** Detecting Unspecified Events on Twitter
- 2007-2010     **M.Phil (Computer Science)**, Quaid-i-Azam University, Islamabad, Pakistan.  
**Thesis:** Usable Layout for Scientific Documents to Support Online Reading
- 2003-2007     **BS(Computer Science)**, Balochistan University of Information Technology and  
Management Sciences, Quetta, Pakistan.  
**Project:** Combining Physical and Logical Security to avoid threats in technical areas
- 2001-2002     **Diploma in IT**, Balochistan Institute of Information Technology, Quetta, Pakistan.
- 2002-2002     **Diploma in .Net**, Balochistan Institute of Information Technology, Quetta, Pakistan.

## Research Interests and Publications

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- Event detection and evolution using social media streams
- Social computing (Social Network Analysis, Social Media Analytics)
- Big data analytics, machine learning, text mining

## Published

**Z Saeed**, R.A Abbasi, I Razzak. EveSense: What can you sense from Twitter?. In: Jose J. et al. (eds) *Advances in Information Retrieval. ECIR 2020*. Lecture Notes in Computer Science, vol 12036. Springer, Cham (**Core Rank: A**) ([download](#))

**Saeed, Z.**, Abbasi, R. A., Razzak, M. I., and Xu, G. (2019). Event detection in Twitter stream using weighted dynamic heartbeat graph approach, *IEEE Computational Intelligence Magazine*, 14(3):29-38. (**IF: 9.083, SJR: Q1**) ([download](#))

**Saeed, Z.**, Abbasi, R. A., Razzak, M. I., Maqbool, O., Sadaf, A., and Xu, G. (2019). Enhanced Heartbeat Graph for emerging event detection on Twitter using time series networks, *Expert Systems with Applications*, 136:115-132. (**IF: 5.452, SJR: Q1**) ([download](#))

**Saeed, Z.**, Abbasi, R. A., Maqbool, Sadaf, A., Razzak, I., Ali, D., Aljo-hani, N. R., and Xu, G. (2019). What's happening around the world? A Survey and Framework on event detection techniques on Twitter, *Journal of Grid Computing*, 17(2):279-312. (**IF 2.095, SJR: Q1**) ([download](#))

Farooq G., Iqbal Z., **Saeed Z.** et al, (2020). A Dynamic Three-Bit Image Steganography Algorithm for Medical and e-Healthcare Systems, *IEEE Access*, 8:181893-181903 – (IF 3.745, SJR: Q1) ([download](#))

**Saeed, Z.**, Abbasi, R. A., Sadaf, A., Razzak, M. I., and Xu, G. (2018). Text stream to temporal network - A dynamic heartbeat graph to detect emerging events on Twitter. *In Advances in Knowledge Discovery and Data Mining - 22nd Pacific-Asia Conference (PAKDD 2018), Melbourne, Australia*, June 3-6, Lecture Notes in Computer Science, vol 10938. Springer, Cham. (Core Rank: A) ([download](#))

Seemab, U., ul Ain, Q., Nawaz, M. S., **Saeed, Z.**, & Rashid, S. (2012). TrFAST: A Tool to Predict Signaling Pathway-specific Transcription Factor Binding Sites. *Genomics, proteomics & bioinformatics*, 10(6), 354-359. (IF 6.6, SJR: Q1) ([download](#))

**Saeed Z.**, Sadaf A., Siraj M. Activity Based Correlation of Documents using Association Rule Mining, 7<sup>th</sup> IEEE International Conference on Emerging Technologies (ICET 2011), Islamabad, Pakistan pp 1-7 ([download](#))

### **Under Review**

Fazal M.A., Sam F., Andrew J., **Saeed Z.** (2020). Investigating cognitive workload in concurrent speech-based information communication, *International Journal of Human-Computer Studies* - (Under Review) - Impact Factor 3.163

Hussain K., Abbasi R.A., **Saeed Z.** (2020). Abusive Tweets Detection using Supervised Learning with Contextual Features, *Knowledge-Based Systems* - (Under Review) - Impact Factor 5.1

### **In Progress**

**Saeed Z.**, Abbasi R.A., Razzak I., Fazal M.A. (2020). Spectral learning on complex network to detect drifting concept using context-aware sliding windows, *Future Generation Computer Systems* - (Writing Manuscript) - Impact Factor 5.7

Fazal M.A., Sam F., Andrew J., **Saeed Z.** (2020). The effects of long-term listening to Concurrent Speech, *Computers in Human Behavior* - (Writing Manuscript) - Impact Factor 5.8

### **Teaching Experience**

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09/2020 - Present	<b>Assistant Professor</b> , University of Central Punjab, Lahore, Pakistan <b>Courses:</b> Operating Systems, Emerging Trends in Information Retrieval
09/2018 - 06/2019	<b>Lecturer (Visiting)</b> , Quaid-i-Azam University, Islamabad, Pakistan <b>Courses Taught:</b> Intro. to Computer Systems, Problem Solving and Programming, Object Oriented Programming
03/2018 - 06/2018	<b>Casual Academic</b> , University of Technology Sydney, Australia <b>Course Taught:</b> Data Structures and Algorithms
02/2015 - 06/2015	<b>Lecturer (Visiting)</b> , Air University, Islamabad, Pakistan <b>Courses Taught:</b> Data Structures, Programming Fundamentals
02/2013 - 01/2015	<b>Lecturer (Visiting)</b> , PMAS-Arid Agriculture University, Rawalpindi, Pakistan <b>Courses Taught:</b> Modern Programming Languages, Software Engineering
02/2012 - 01/2013	<b>Lecturer (Visiting)</b> , Federal Urdu University of Science Arts and Technology, Islamabad, Pakistan <b>Courses Taught:</b> Visual Programming, Distributed Databases

- 10/2012 - 02/2013      **Lecturer**, University of Central Punjab, Lahore, Pakistan  
**Courses Taught:** Data Structures, Discrete Structures
- 09/2009 - 02/2011      **Lecturer (Visiting)**, Quaid-i-Azam University, Islamabad, Pakistan  
**Courses Taught:** Problem Solving and Programming

## **Professional Experience**

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- 07/2017 - 06/2018      **Research Scholar/Software Developer**, Advanced Analytics Institute, UTS, Sydney, Australia [\(Web\)](#)  
**Responsibilities:** Developing novel graph-based method to transform text stream data. Crawling Twitter data using Streaming and Search APIs. Improving performance in event detection process via exploring and designing various features. Developing a micro-finance application called FinQ.
- 02/2012 - 10/2012      **Software Engineer**, Diyatech, Islamabad, Pakistan [\(Web\)](#)  
**Responsibilities:** Development, integration and maintenance of software NCache — a performance enhancement Framework for Web Applications
- 07/2010 - 02/2012      **Software Engineer**, M-Net Technologies, Islamabad, Pakistan [\(Web\)](#)  
**Responsibilities:** Design and development of custom software solutions. Time and cost estimation, resource allocation and client communication.
- 04/2006 - 04/2007      **Project Developer**, BUITEMS, Quetta, Pakistan [\(Web\)](#)  
**Responsibilities:** Design and development of security system for computer labs, testing, training and deployment.

## **Workshops and Events**

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- Workshop on “Use of Artificial Intelligence Against COVID-19”, organized under China-Pakistan Science Workshop (I) by PASTIC, QAU, Pakistan and BTBU China, held on 23<sup>rd</sup> July 2020.
- Participated in "INTRODUCTION TO TEACHING FIRST YEAR SUBJECTS", organized by Institute for Interactive Media and Learning, University of Technology Sydney, held on 26<sup>th</sup> March 2018
- Participated in "ACTIVE LEARNING IN UTSONLINE", organized by Institute for Interactive Media and Learning, University of Technology Sydney, held on 27<sup>th</sup> March 2018
- Participated in casual academic workshop "TOOLS FOR ONLINE FEEDBACK", organized by Institute for Interactive Media and Learning, University of Technology Sydney, held on 28<sup>th</sup> March 2018
- Poster Presentation in Faculty of Engineering & IT Research Showcase event, organized by FEIT, University of Technology Sydney, held on 14th June, 2018

## **Technical Skills**

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<b>Programming</b>	Python, C/C++, C#, VB.Net, JAVA
<b>Web-based Framework</b>	ASP.Net, PHP, JavaScript, jQuery, AJAX, SOAP/Restful API
<b>AWS</b>	.Net, Entity, MVC, CodeIgniter, Django
<b>Development IDEs</b>	S3, EC2, RDS, ELB, ELC
	PyCharm, Visual Studio, NetBeans, Eclipse, PhpStorm

<b>Databases</b>	SQL Server, MySQL, MongoDB, PostgreSQL
<b>Tools</b>	Weka, Gephi, Cytoscape, SPSS, Infragistics, Crystal Reports

## **Awards**

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- Awarded **Student Grant** by 42<sup>nd</sup> European Conference on Information Retrieval (**ECIR'2020**)
- Award research & development funding for start-up and innovative projects under **National Technology Fund by IGNITE** (2018).
- Awarded **Ph.D. Fellowship** by Higher Education Commission (**HEC**), Islamabad, Pakistan under Indigenous Ph.D. fellowship program Batch-II. (Feb 2013-Jul 2017)
- Awarded **research funding** for foreign research visit under **International Research Support Initiative Program (IRSIP)** by Higher Education Commission (**HEC**), Islamabad, Pakistan. (Aug 2017-Jan 2018)
- Awarded **research fellowship** by Advanced Analytics Institute, **University of Technology Sydney**, Australia. (Feb 2018 - July 2018)
- Awarded **merit scholarship** in M.Phil, Department of Computer Science, **Quaid-i-Azam University**, Islamabad, Pakistan. (2007-2008)

## **Community Services**

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### **PC Member**

- Int. Conference on Behavioral, Economic, and Socio-Cultural Computing (BESC) 2018, Taiwan

### **Invited Reviewer:**

- Pacific Rim International Conference on Artificial Intelligence (PRICAI), 2018, china
- Int. Conference on Advances in Social Networks Analysis and Mining, (ASONAM), 2018, Spain
- IEEE International Conference on Big Data Science And Engineering, (BigDataSE), 2018, USA

### **Reviewing for Journals:**

- Expert Systems with Applications, Elsevier