

SYED IBRAHIM GHAZNAVI

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INTERESTS

Computer Systems, Networks, Artificial Intelligence and Information and communication technologies and development (ICTD)

EDUCATION

2016-2019(exp.) PhD. Computer Science
Imperial College London

2010-2012 M.S. Computer Science
Lahore University of Management Sciences (LUMS)

2006-2010 B.S. Computer Science
National University Of Computer & Emerging Sciences (NUCES-FAST)

2001-2006 GCE O-Levels, A levels
American National School

EXPERIENCE

Research:

Advisors: Prof. Abbas Edalat, Prof. Duncan Gillies and Prof. Frank Ryan

Research and teaching assistant (2016-current)

- **IVR platform for self-attachment therapy** – We are working on an immersive virtual reality platform for Self-attachment therapy. Our platform enables psychiatric rehabilitation of patients experiencing chronic anxiety and depression.

Advisors: Prof. Umar Saif, Prof. Tapan Parikh and Prof. Kurtis Heimerl

Research Team Lead at Information Technology University (Oct2013- 2016)

- **Crime Data Analytics** - We analyzed changing patterns in crime due to change in weather conditions, public holidays, weekdays, and weekends on the number of crimes. We also performed spatio-temporal analysis for the top 10 crime categories.
- **VillageApps** – a platform to educate rural masses through audio translations of text books and other educational literature in their native language.
- **SpeakMyText** – a platform which enables reading-illiterates understand written text. It promotes learning collaboration between reading illiterates and volunteer literates.

Research Team Lead at Lahore University of Management Sciences (October 2012 to September 2013)

- **Rescue Base Station** – a drop-in, solar power compatible, open-source GSM communication system to reinstate cellular services like Call/SMS in scenarios where a large-scale calamity disrupts traditional modes of communication.

Teaching:

TA for graduate course “Advance Operating Systems” at LUMS – Fall 2011

TA for undergraduate course Calculus-1 at NUCES – Fall 2008

Industry:

Intagleo Systems (www.intagleo.co.uk) (October 2011 to September 2012)

- I worked on TK dialogue (<http://www.teamknowledge.co.uk/>) in C#, it's a tool for creating and deploying custom user interfaces and call guides. I developed desktop applications and also worked on .Net web forms.

PUBLICATIONS & AWARDS

Ibrahim Ghaznavi, Kurtis Heimerl, Umar Muneer, Abdullah Hamid, Kashif Ali, Tapan Parikh, and Umar Saif. 2014. Rescue Base Station. In Proceedings of the Fifth ACM Symposium on Computing for Development (ACM DEV-5 '14). ACM, New York, NY, USA, 53-62. DOI=[10.1145/2674377.2674392](https://doi.org/10.1145/2674377.2674392)

Ibrahim Ghaznavi, Umar Muneer, Usman Shahid, Shan Randhawa, Kashif Ali, Tapan Parikh, Umar Saif. 2015. Village Apps. In proceedings of the Seventh International Conference on Information and Communication Technologies and Development (ACM ICTD'15). ACM, Singapore, Article#37. DOI=[10.1145/2737856.2737904](https://doi.org/10.1145/2737856.2737904)

Program Committee [ICTD 2019 conference](#)
Named Imperial College's Global Fellow 2017
Organizer [Pakistan-ICTD 2013](#) & [Pakistan-ICTD 2014](#)
National ICTR&D research fellowship 2012

PRESS

Reuters story on the Rescue Base Station (RBS): <http://in.reuters.com/article/2015/09/21/pakistan-disaster-solar-idINKCN0RL0KF20150921>

Story on the RBS also appeared in the following press:

International: [Dailymail](#), [CNN-IBN](#), [Voice of America](#), [India Times](#), [Gulf News](#), [Malaymailonline](#), [Japan Today](#), [News Asia](#).

National: [SAMAA TV](#), [Geo TV](#), [Ary News](#), [Dunya News](#), [The News International](#)

My interviews (explaining RBS) were aired on Geo news and Express news, two leading news channels in Pakistan.

OTHER INTERESTS

[Mountaineering & Travel Photography](#)

REFERENCES

Prof. Umar Saif
Vice Chancellor at Information Technology University
vc@itu.edu.pk

Prof. Abbas Edalat
Professor at the Imperial College London
a.edalat@imperial.ac.uk

Dr. Kurtis Heimerl
Assistant Professor at University of Washington
kheimerl@u.washington.edu