

ABDUL REHMAN

BH9, Bournemouth 

(+44) 7360327823 

arehman@bournemouth.ac.uk 

[linkedin.com/in/arehmanbournemouth/](https://www.linkedin.com/in/arehmanbournemouth/) 

Looking for an AI/NLP related internship or part-time work.



EDUCATION

PhD | Bournemouth University, UK, SEP 2021 – 2025

Research topics: NLP, Intelligent personal assistant, Intuitive chatbots, Affective computing,

Masters in Control Science and Engineering | CUG, Wuhan, China, SEP 2018 – JUN 2021

Thesis: Speaker Independent Speech Emotion Recognition with Active Learning

- [2nd prize in CUG's postgraduate research awards, 2020](#)
- [Bronze prize in China's 5th Internet+ Innovation and Entrepreneurship Competition, 2019](#)

MBA - Marketing Research | Bahria University, Islamabad, Pakistan, FEB 2015 – MAR 2017

Thesis: Effective ways to sell costly but environmentally friendly products

BS in Electrical Engineering | PIEAS, Islamabad, Pakistan, OCT 2010 – JAN 2015

Thesis: RF RSSI based outdoor localization



WORK EXPERIENCE

Design Engineer | Comcept (Pvt) Limited, Islamabad, Pakistan

Sep 2015 – Aug 2017 | R&D, design and development of hardware and software for military equipment.

Technical Lead | QRS Personalization Factory, Wuhan, China

Jun 2019 – Sep 2020 | An IoT/HCI startup for business personalization on fingertips without the need to code.

Research Assistant | AHRC Funded Project

Feb 2022 – | Coordinating and interviewing key people in the Virtual Production industry for the UK-China [Collab.](#)



PUBLICATIONS

Speech Emotion Recognition Based on Formant Characteristics Feature Extraction and Phoneme Type Convergence

| **Journal: Information Sciences**

2021, Zhen-Tao Liu; **Abdul Rehman**; Min Wu; Weihua Cao; Man Hao

Speech Personality Recognition Based on Annotation Classification Using Log-likelihood Distance and Extraction of Essential Audio Features

| **Journal: IEEE Transactions on Multimedia**

2020, Zhen-Tao Liu; **Abdul Rehman**; Min Wu; Weihua Cao; Man Hao

Syllable Level Speech Emotion Recognition Based on Formant Attention

| **Conference: CIC AI 2021**

2021, **Abdul Rehman**; Zhen-Tao Liu; Jing-Meng Xu

Cross-Corpus Speech Emotion Recognition Based on Hybrid Neural Networks

| **Conference: CCC 2020**

2020, **Abdul Rehman**; Zhen-Tao Liu; Dan-Yun Li; Bao-Han Wu

Google Scholar profile: https://scholar.google.com/citations?user=vz_gp6UAAAAJ&hl



SKILLS

- **Programming:** Python, JS, C++, C#, in that order
- **ML:** Optimization, Numerical methods, Knowledge based systems.
- **EE:** Signals, RF, Sensors, IoT, microcontrollers and DSP based prototype design and code.
- **Tools:**
 - TF, Keras, PyTorch, Matlab
 - Altium, LT-Spice, Proteus, Arduino
- **Languages:**
 - [English](#), Urdu, [Chinese](#)



PROJECTS

These are few projects that I have worked on independently or at the job:

- **Intelligent AI based Personal Assistant**
SEP 2021 -
Research project. Currently, working on creating a cancer clinic helpdesk bot with small-sample due to the lack of clinical data.
- **Speech affects recognition in small-sample environment**
SEP 2018 – JULY 2021
Research project. Link: [tabahi.github.io/WebSpeechAnalyzer/](https://github.io/WebSpeechAnalyzer/)
- **Road snow melting IoT system**
MAY 2017 – JULY 2017
IoT electronics and Web based control panel for Arctic highways in Norway. Simple project but a lot of moving parts in it. Link: met.tabahi.tech
- **AI based forecast from CO2 sensors and Satellite data**
APRIL 2017 – MAY 2017
Programming of weak-AI based prediction of crop yield. Application monitors and triggers the alarm when CO2 is increasing rapidly in cities or agricultural areas to predict a forthcoming drought.
- **Autoloader control system**
MARCH 2017 – AUG 2017
I designed the whole control mechanism of a loading robot that replaces one of the crew members inside the tank.
- **Fire (projectile) control system**
JULY 2016 – JULY 2017
I was part of a team which designed the whole firing system for a military tank. My task was to design instruments to sense the environment wind, fog, trees, gravity etc.
- **Laser based target locker**
DEC 2015 – JULY 2016
Detection of target distance, material and surrounding environment using a high-power laser.
- **Long range passive LF metal detector**
JAN 2017 – SEP 2017
Detection of 10m deep underground metal tags using passive RF.
- **Remote fuel gauging system for air fuel tankers**
JAN 2016 – MAY 2016
Remotely monitors the air fuel taker fleet. It is monitored by web-based user interface.
- **NMEA0186, NMEA2k, Seataalk multiplexer and decoder with remote nodes**
NOV 2015 – JAN 2016
A device to merge all kind of sea instruments in one box. It uses multiple controllers and remote RF nodes to show all the ship's instruments on a single screen.

Some of my hobby projects are publicly available on GitHub: github.com/tabahi.