

# RAMEEN SHAIKH

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## Education

<b>NED UNIVERSITY OF ENGINEERING AND TECHNOLOGY (3.024)</b>	Karachi, Pakistan
Bachelor of Biomedical Engineering	2017-2021
<b>GOVT. DEGREE COLLEGE SRE MAJEED</b>	Karachi, Pakistan
Pre-Engineering	2015-2017

## Research Experience

<b>Bilateral Effective Connectivity in Resting Human Brain in Healthy Adults</b>	Karachi, Pakistan
Final Year Project	July 2020 - May 2022
<ul style="list-style-type: none"><li>– <i>Secondary Research</i>: Conducted literature search on brain's language networks and neuroanatomy</li><li>– Analyzed the changes occurring in effective bilateral connectivity of the brain with healthy aging in semantic language comprehension using resting fMRI brain scans</li><li>– <i>Technical Skills</i>: Performed Statistical data analysis of resting-state fMRI data of 700 subjects using state-of-the-art computational neuroscience frameworks and algorithms i.e Spectral Dynamic Causal Modeling and Parametric Empirical Bayes (PEB).</li><li>– <i>Image Analysis Software</i>: Statistical Parametric Mapping (SPM) was used to analyze results.</li><li>– <i>Presentation Skills</i>: Poster presentation of capstone research work titled "<i>Effective Brain Connectivity Changes In Language Network During Healthy Aging</i>" at 6th All Pakistan Health Innovation Exhibition organized by DUHS-DICE (December 2022)</li></ul>	

## International Society for Chronic Illnesses

Peer Review Mentorship Program	September 2021- January 2022
<ul style="list-style-type: none"><li>– Conducting a systematic review on the effects of Transcranial Direct Current Stimulation in Alzheimer's disease patients</li><li>– <i>Literature research</i>: Pubmed, Google Scholar, Cochrane Library, and Science Direct.</li><li>– Abstract accepted in International Neuromodulation Society 15th World Congress which will be held on 21-26th May 2022 in Barcelona, Spain</li><li>– Manuscript has been approved for publication in '<i>Current Alzheimer Research</i>' journal.</li></ul>	

## Professional Experience

<b>Amal Academy</b>	Karachi, Pakistan
Program Associate	August 2022 - Ongoing
<ul style="list-style-type: none"><li>– Facilitating students of final year of undergraduate in reaching their full potential and preparing them to meet their professional goals.</li><li>– <i>Interpersonal Skills</i>: Involved in presentations, teamwork, communication, curriculum development and problem solving on daily basis as demanded by role itself.</li><li>– <i>Organizational Operations</i>: Assists in organizational operations using MS Office (More specifically; Spreadsheets).</li></ul>	

## Pepsico Pakistan

Engineer Intern	Remote
	March 2021 - July 2021
<ul style="list-style-type: none"><li>– Analyzed Food Safety Management system and HACCP principles in the food and beverages industry.</li><li>– Conducted analysis of bioactive compounds used in the formulation and packaging of products.</li><li>– Proposed solutions for challenges faced by the beverages industry.</li></ul>	

## Neurocomputation Lab - National Center of Artificial Intelligence (NCAI)

Biomedical Research Intern	Karachi, Pakistan
	February 2020 - June 2020

- *Primary Research*: Collected data of 40 healthy subjects using NeuroSky for analyzing brain baseline activity
- *Technical Skills*: Computed, analyzed, and interpreted EEG data of healthy participants using Python, and EEGLab

#### **Karachi Institute Of Radiotherapy And Nuclear Medicine (KIRAN)**

Karachi, Pakistan

Biomedical Engineer Intern

March 2020

- *Analytical skills*: Studied imaging and radiotherapy equipment such as CT, MRI, LINACs, and Cobalt-60 Unit respectively. Also analyzed laboratory equipment and procedures such as ELISA, RIA, etc.

#### **Extracurricular & Volunteer Experience**

##### **Camp Himalayas by Youth Impact Pakistan**

May 2022

- *Leadership Skills*: Spent one week in wilderness and practised leadership to make change in society.
- Experienced Rock Climbing, Trekking, Hiking and survival in outdoor space.
- Conducted 3 months Social Action Project (SAP) on Peace, Faith and Harmony in Pakistan.

##### **Pakistan Postpartum program**

*A mental health awareness program organized by the fellows of Amal Academy as part of their Mega Project*

- Organized social campaigns for the awareness of Postpartum Depression among women in Pakistan.

##### **Help Of Patients in Exigency by Students (HOPES)**

*A non-profit organization organized by the students of Karachi Medical and Dental College*

- *Team Work*: Volunteered for social welfare and raised funds by 15% for the organization with a team of 6 participants in 4 hours (2019).

#### **Additional Skills**

- *Technical Skills*: AutoCAD, Minitab, MS Office
- *Reference Managers*: Mendeley, Zotero
- *Programming languages and mathematical packages*: JavaScript, Matlab, Python, Wolfram Mathematica
- *Languages*: Urdu (Native), English (Fluent), and Chinese (HSK- I and II)