

# MAHNOOR TARIQ

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## PROFILE

Research Professional with over eight years of dedicated experience in analytical methodologies, data modeling, and intricate medical research and management. Proficient in experiment design, data analysis, and comprehensive report generation for quantitative and qualitative studies. With expertise in medical imaging, oncology, neuroscience, genetic disorders, and rare diseases, I am committed to advancing scientific understanding through creative and innovative methods.

## EXPERTISE & SKILLS

Professional Expertise	Skills	Tools	Languages
Clinical Research	Designing Experiments	SPSS & Mendeley	English
Database Searches	Analyzing, and Synthesizing data	Visual Studio	Urdu
MRI, Ultrasound, CT, X-ray, EEG, EMG	Data Modeling, Entry and Evaluation	Neuroimaging Softwares (e.g., FSL, SPM)	Hindi
Project Management	Leadership	EEG/ERP Analysis Software (e.g., EEGLAB)	Punjabi
Quantitative and Qualitative Analysis	Report Writing	Data Visualization Tools (e.g., Tableau, ggplot2)	
Cognitive Assessments	Time Management	LaTeX, GitHub	
Literature Review & Grant Writing	Critical Thinking & Problem Solving	Microsoft Office (Word, Excel, PowerPoint)	
Safety Protocol Management	Strong Interpersonal Communication	R, MATLAB, Python	

## EDUCATION

**Master of Science (MSc) in Cognitive Neuroscience and Neuropsychology** 2022 - 2023  
Birkbeck University of London, United Kingdom

**Bachelor of Science (Hons) in Medical Imaging Technology** 2016 - 2020  
Rawalpindi Medical University, Pakistan (Affiliated with the University of Health Sciences, Lahore)

## PROFESSIONAL EXPERIENCE

**Graduate Researcher** Oct 2022 – Oct 2023  
Birkbeck University of London, United Kingdom

- Examined the intricate relationship between early cognitive predictors and academic outcomes in Down syndrome (DS) children through a longitudinal study design with a data set of 120 children with DS.
- Employed advanced assessment methodologies, including the utilization of Mullen Scales of Early Learning and the York Assessment of Reading for Comprehension (YARC), alongside comprehensive numeracy measures.

**Research Manager** Mar 2021 – Sep 2022  
Cognitive Neuroscience Lab - Rawalpindi Medical University, Pakistan

- Led a team of researchers in evaluating the neurobiological basis of ADHD in humans, using behavioral assessments and neuroimaging techniques, including fMRI.
- Fostered a collaborative and innovative work environment, encouraging team members to contribute ideas and solutions.
- Conducted thorough reviews of scientific publications, synthesizing, and summarizing key findings from relevant literature.
- Performed comprehensive statistical analyses, employing both qualitative and quantitative methods with a 90% accuracy rate.

**MRI Technologist** Aug 2020 – Jan 2021  
Holy Family Hospital (MRI Department)

- Contributed to the maximum success rate of diagnosis of pathologies with accurate imaging scans.
- Mentored junior medical students, fostering their professional growth, and understanding of basic anatomical diagnosis.
- Orchestrated a notable 15% uptick in patient satisfaction scores, implementing patient-centered strategies.

- Collaborated with interdisciplinary teams, streamlining workflow, and achieving a 20% reduction in turnaround time for diagnostic results.

### ***Undergraduate Researcher***

Mar 2019 – July 2020

SON-X Diagnostic Center - Rawalpindi Medical University, Pakistan

- Conducted a prospective study to assess the diagnostic accuracy of ultrasound and magnetic resonance cholangiopancreatography (MRCP) in diagnosing choledocholithiasis, compared with the gold standard, ERCP.
- Evaluated 200 patients for suspected choledocholithiasis using ultrasound, MRCP, and ERCP, leveraging expertise in imaging modalities to compare diagnostic performance.
- Ensured adherence to hospital and regulatory protocols to uphold standards of quality, safety, and patient confidentiality during the process of gathering patient data and performing imaging operations.

### ***Teaching Assistant***

Feb 2016 – July 2020

Rawalpindi Medical University, Pakistan

- Supervised lab hospital rotations for a class of 62 students, ensuring smooth operation and adherence to safety protocols.
- Conducted individualized assessments to identify student strengths and areas for improvement, providing tailored support.
- Led tutorials, assisted in preparing lecture presentations, graded assignments, conducted exam review sessions, and provided detailed feedback to students.
- Delivered assisted lectures for the following courses:
  - *Biochemistry and Pathology (2016)*
  - *Radiation Sciences and Technology (2017)*
  - *Nuclear Medicine (2018)*
  - *Magnetic Resonance Imaging (2019)*
  - *Research Methods & Biostatistics (2020)*

### ***Senior Research Fellow***

Feb 2018 – Feb 2019

Rawalpindi Medical University, Pakistan

- Led a collaborative research initiative focusing on the molecular characterization of diffuse gliomas, aiming to uncover new therapeutic targets and treatment strategies.
- Managed a multidisciplinary team of researchers, coordinating efforts to analyze and interpret complex genomic and molecular data from large-scale sequencing and imaging analyses.

### ***Summer Research Associate***

Mar 2017 – Aug 2017

Rawalpindi Medical University, Pakistan

- Conducted collaborative research on synaptic plasticity, utilizing advanced imaging techniques such as magnetic resonance imaging (MRI) and positron emission tomography (PET).
- Explored the potential of neuromodulation and circuit-based treatments in promoting neuroplasticity, integrating basic science approaches with clinical methodologies like transcranial magnetic stimulation (TMS) and electroconvulsive therapy (ECT).

## **PROJECTS**

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### **Birkbeck, University of London**

2022 – 2023

#### *Graduate Research Project*

Title: "Longitudinal cognitive predictors from early childhood to primary school age - Reading and Numbering abilities of children with Down syndrome."

### **University of Health Sciences**

2019 – 2020

#### *Undergraduate Research Project*

Title: "Diagnostic accuracy comparison of Magnetic resonance cholangiopancreatography (MRCP) and Ultrasound in the detection of choledocholithiasis keeping Endoscopic Retrograde Cholangiopancreatography (ERCP) as the gold standard".

## **PUBLICATION**

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Tariq, M., Imtiaz, A., Shahzadi, S., Abid, S., & Ikram, A. (2023). Diagnostic accuracy of Magnetic Resonance Cholangiopancreatography and Ultrasound in the detection of choledocholithiasis taking ERCP as gold standard. *Journal of Nursing and Allied Health (JNAH) 1(1)*. <https://supp.journalrmc.com/jnah/index.php/public/article/view/17>

## CERTIFICATIONS

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### **Research Management, Finance and Administration Course**

Feb 2023

*University of London, UK*

- Data Management
- Leadership, Growing and Maintaining Research Teams
- Financial Reporting and Budgeting

### **Specialization Virtual Course in Neuroscience and Neuroimaging**

May 2022

*Johns Hopkins University, USA*

- Fundamental Neuroscience for Neuroimaging
- Computational Neuroscience
- Principles of fMRI

### **Standard First Aid & CPR/AED Level C**

Dec 2021

Issued by *Canadian Red Cross (Alert First Aid Inc.) Victoria, British Columbia, Canada*

- Acquired comprehensive skills in first aid and CPR techniques, including cardiopulmonary resuscitation (CPR) and automated external defibrillator (AED) operation. Proficient in assessing and responding to medical emergencies, ensuring the safety and well-being of individuals in critical situations.

## VOLUNTEER SERVICES

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### **Senior Regional Fundraiser**

March 2022 – Aug 2022

*Canadian Red Cross - Canada*

- Developed and executed strategic fundraising campaigns targeting health-related initiatives, raising funds to support critical healthcare programs within the community.
- Lead a team of 120 volunteers to plan and organize successful health-focused events, including charity walks, blood drives, and health education seminars, reaching a wide audience and fostering community engagement.
- Cultivated and maintained strong relationships with local businesses, community leaders, and individual donors, resulting in increased financial support and in-kind donations to further the Red Cross's health-related mission.

### **Peer Reviewer and Editorial Contributor**

May 2019 – Aug 2022

*Journal of Nursing and Allied Health (JNAH)*

- Conducted thorough peer reviews of research manuscripts, providing constructive feedback to authors, and contributing to the integrity and quality of scientific publications.
- Authored insightful editorial pieces on emerging trends and advancements, enhancing the journal's scholarly content and readership engagement.

### **Medical Assistant**

Feb 2021 – Apr 2021

*Shaukat Khanum Cancer Hospital*

- Educated patients on medications, procedures, and treatment plans.
- Observed and monitored patients' vital signs, including pulse, blood pressure, and respiration.
- Assisted in preliminary diagnostic tests and pre-operative procedures to prepare patients for physician visits.

## HONOURS AND AWARDS

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- 2023: Distinction - MSc., *Birkbeck, University of London*
- 2020: Academic Excellence Scholarship - BSc (Hons.), *Rawalpindi Medical University*
- 2020: Excellent Bachelor Thesis, *Rawalpindi Medical University*
- 2020: Editorial Leadership Award, *Journalism Society, Rawalpindi Medical University*
- 2018: Elected Fellow of Rawalian Student Research Society, *Rawalpindi Medical University*
- 2015: Distinction - (FSc) in Pre-Medical, *Punjab College, Rawalpindi*
- 2012: Distinction & Gold Medalist in Punjab Board (top 1%) - Matriculation., *Divisional Public School and College*