MOHAMED AMEEN, PhD

Neuroscientist | Data Scientist | Pharmacist
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PROFESSIONAL SUMMARY

Interdisciplinary research professional with 8+ years of experience in cognitive neuroscience and clinical data management and analysis, statistical programming and machine learning techniques. Skilled in Python and R, with strong analytical and organizational capabilities. Background in pharmacy and neuroscience, with a commitment to advancing healthcare sector and improving clinical data integrity and quality standards.

EXPERIENCE

University of Salzburg, Centre for Cognitive Neuroscience (CCNS) – Salzburg, Austria
Senior Scientist | Apr 2024 – Present
- Leading cross-disciplinary neuroscience projects on EEG and brain-body interaction.
- Project management: Leading teams of researchers to analyse complex physiological data delivering 2 scientific papers.
- Building automated pipelines in Python, MATLAB, and R for data preprocessing and statistical analysis.

Columbia University, Department of Biomedical Engineering – New York, USA
Visiting Researcher | Oct 2022 – Feb 2023
- Spearheaded a cross-institutional initiative to develop standardized machine learning pipelines to analyze complex biological data.
- Drove the adoption of reproducible analysis standards across collaborative partners.
- Delivered an open-access methods paper adopted in training across labs.

University of Salzburg, Lab for Sleep and Consciousness Research
PhD Researcher | Sep 2019 – Mar 2024
- Managed multiple high-complexity projects leveraging machine learning and signal processing across diverse modalities (EEG, EOG, fMRI).
- Designed and implemented scalable workflows with robust documentation and training materials for adoption by new users.
- Championed the use of open science tools and cross-functional coordination with external research groups.

Proschlaf GmbH – Salzburg, Austria
Research Scientist | Mar 2019 – Aug 2019
- Conducted descriptive analyses to support individualized sleep diagnostics and interventions.
- Contributed research insights toward the company's personalized sleep system.

University of Salzburg, Lab for Sleep and Consciousness Research
Predoctoral Researcher | Mar 2017 – Feb 2019
- Conducted Digital Biomarkers studies to validate wearable sleep tech (cited in 60+ studies).
- A successful grant applications totalling over €150k.

S.A.T. Pharmacies
Senior Community Pharmacist | Oct 2016 – Feb 2017
- Gained extensive experience in Clinical pharmacy and provided comprehensive patient care.
- Oversaw medication inventory, regulatory compliance, and patient service operations.

Earlier roles:

- **Research Assistant**: Consciousness and Cognition Lab - University of Cambridge, UK (Feb 2016 to Jul 2016).
- **Research Assistant**: Radiology Department - University Hospital Freiburg, Germany (Sept 2015 to Jan 2016).

EDUCATION

- **PhD in Cognitive Neuroscience** – University of Salzburg, Austria (2019–2024) | *Summa Cum Laude*
- **MSc in Neuroscience** – University of Strasbourg, France (2014–2016) | Grade: A
- **BSc in Pharmaceutical Sciences** – Cairo University, Egypt (2008–2013) | *Very Good with Honors*
  - Recognized in Austria as equivalent to ***B.Sc. Pharmazie*** by the University of Vienna (2025)

CORE SKILLS

Data Analysis: Advanced proficiency in Python, MATLAB, and R for analysing large-scale neurophysiological data; experience with ML pipelines and statistical modelling.

Machine Learning: Applied supervised learning, decision trees, SVMs, and deep learning using tools like scikit-learn and PyTorch.

Project Management: Led cross-functional research projects; implemented new digital tools and workflows.

Communication & Collaboration: Experienced in scientific communication, interdisciplinary teamwork, and stakeholder engagement across academia and industry.

Leadership & Mentorship: Managed junior researchers; coordinated multi-site initiatives across academic and clinical settings; successfully introduced and trained teams in new analytical workflows, tools, and reproducible practices.

Soft Skills: Strong communication, critical thinking, problem-solving, collaboration, and leadership abilities in fast-paced, cross-functional environments.

Languages: English (fluent), Arabic (native), German (B2), French (B1)

SELECTED PUBLICATIONS

2025: Selective preservation of prediction-related signals in human sleep. Current Biology (co-author)

2024: The Temporal Dynamics of Aperiodic Neural Activity Track Changes in Sleep Architecture. bioRxiv (1st author)

2022: The Brain Selectively Tunes to Unfamiliar Voices during Sleep. Journal of Neuroscience (1st author)

2019: About the Accuracy and Problems of Consumer Devices in the Assessment of Sleep. Sensors (1st author)

SELECTED GRANTS & AWARDS

- **€45k** Postdoctoral Grant – Univ. Salzburg, 2024 | Early Career Independent Postdoc Researcher.
- **€6k** Young Investigator Award – German Sleep Society (DGSM), 2023.
- **€115k** DOC doctoral Fellowship – Austrian Academy of Sciences (ÖAW), 2019–2022 | Sleep research.

OUTREACH

- 7 *Oral presentations* and 15+ *Poster presentations* at international scientific conferences (2017–2025).
- Guest Editor, Frontiers in Sleep. *Topic: Understanding Conscious Experience during Sleep* (2024-current).
- Guest lecturer, University of Salzburg – *EEG analysis & Neuropsychology of consciousness* (2023–2024).
- Guest lecturer, EFPSA – *Workshop on the Neuroscience of Dreams* (2022).