Douaa Khalil

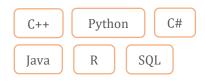douaa_khalil@hotmail.com   +961 81 778 753   Beirut, Lebanon

Early-career Cognitive Psychology researcher with a dual engineering background and research experience in memory, metacognition, cognitive modeling, and applied technology. Skilled in literature review, experimental design, data analysis, scientific writing, and software development.

SKILLS

Programming Languages

C++   Python   C#

Java   R   SQL

Software and Tools

MATLAB   LaTeX   Git

Microsoft Office   Unity3D

Blender   Android Studio

Languages

Arabic (*native*), French (*fluent*), English (*fluent*), Spanish (*in progress*)

Certificates and Courses

CCNA1 and CCNA2

Machine Learning – Stanford University

Statistical Thinking for the 21st Century

Neuroscience: Exploring the Brain (*in progress*)

EXPERIENCE

RA in Mental Health Studies, at American University of Beirut, Beirut
Part-time, Short-term Contract, July 2025 – August 2025

- Contributed to two concurrent research projects on panic attack prediction and AI-assisted mental health interventions by reviewing study drafts, identifying methodological improvements, and conducting literature reviews to inform study hypotheses.

Research Intern in Cognitive Psychology, at LPNC, Grenoble
Internship, February 2024 – July 2024

- Designed and carried out a behavioral experiment to investigate aspects of working memory ([Project](#))
- Improved a computational model of working memory (a variant of TBRS) to accurately simulate experimental findings
- Contributed to data analysis using R and Python; drafted materials for future publication ([Thesis](#))

R&D in Computer Vision, at American University of Beirut, Beirut
February 2022 – August 2023

- Researched and developed algorithms related to photometric calibration, SLAM systems, and 3D reconstruction for digital twins
- Published and reviewed relevant papers: [Publications](#)

R&D in Augmented Reality and Computer Vision, at Artefacto AR, Rennes
Internship, April 2019 – September 2019

- Conducted a state-of-the-art study in Diminished Reality and implemented a real-time solution targeting mobile devices

Mobile App Development, at InVirtus Technologies, Nantes
Internship, February 2018 – June 2018

- Delivered user-friendly and visually appealing applications.

EDUCATION

Master degree in Cognitive Sciences:
2023 – 2024

- Master's program in Natural and Artificial Cognition (M2 level) at Grenoble INP – Phelma, France
  Cognitive Psychology, Neuroimaging, Language Sciences, Vision, Audition, Development and Premature Skills …

Double Degree Engineering Program between ECN and the LU:
2013 – 2019

- Engineering degree (M2 level) at Ecole Centrale de Nantes, France
  Virtual Reality, Augmented Reality, Computer Vision, Unity Development
- Engineering degree (M2 level) at the Lebanese University, Lebanon
  Electrical and Electronics Engineering, Computer and Communications