

# ISRAA KHALED, Ph.D.

## TELECOM R&D ENGINEER



📍 Paris, France

🌐 [israa-khaled.github.io](https://israa-khaled.github.io)

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🔄 [Israa-khaled](https://github.com/Israa-khaled)

### PROGRAMMING

Python, C#, C (Unix), Java, SQL

### TOOLS & SOFTWARE

Jupyter Notebook, MATLAB/Simulink, Visual Studio/.NET, LaTeX, Adobe Design & Illustrator

*Additional (Academic Use):* NetBeans, MySQL, Mathematica, Eclipse, LabVIEW, Arduino, Orcad/PCB, Proteus, Simplorer, Quartus, AutoCAD

### PERSONAL SKILLS

Teamwork  
Problem analysis and solving  
Adaptability

### LANGUAGES

**Arabic** : Native  
**French** : Fluent  
**English** : Full Professional

### INTEREST

Nature  
Photography  
Writing

### REFERENCES

Marceau Coupechoux, Ph.D., HDR  
*PROFESSOR,*  
*LTCI, Télécom Paris, Palaiseau*  
[marceau.coupechoux@telecom-paris.fr](mailto:marceau.coupechoux@telecom-paris.fr)

Charlotte LANGLAIS, Ph.D., HDR  
*HEAD OF STUDIES,*  
*LabSTICC, IMT Atlantique, Brest*  
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### SUMMARY

Telecom R&D Engineer with 6+ years' experience in 4G/5G radio access networks, signal processing, radio propagation, and radio frequencies. Seeking to contribute to innovative R&D projects in a dynamic team. **My website:** [israa-khaled.github.io](https://israa-khaled.github.io)

### EXPERIENCE

#### POSTDOCTORAL RESEARCHER

*LTCI, Télécom Paris, Institut Polytechnique - Paris, Februar 2025 – Present*

- Project carried out within the PEPR Project and the LINCS Lab
- Power consumption modeling in 4G and 5G radio access networks

#### RADIO FREQUENCY ENGINEER | TEST & CHARACTERISATION

*Vectrawave - Lannion, November 2023 – February 2024*

- Design and development of evaluation boards for Monolithic Microwave Integrated Circuits (MMICs). (AutoCAD, Hardware)
- Characterization and measurements of MMICs (S-parameters and power benches)

#### POSTDOCTORAL RESEARCHER

*LabSTICC, IMT Atlantique - Brest, May 2022 – October 2023*

- Development of a MIMO-assisted wake-up radio method to improve the energy efficiency of IoT networks
- Supervision of two internships on RIS channel modeling in mmWave bands and on wake-up radio techniques with MIMO beamforming

#### RESEARCH ENGINEER, PH.D.

*LabSTICC, IMT Atlantique - Brest, October 2018 – March 2022*

- Design of angle-domain NOMA schemes for multi-user mmWave systems with massive MIMO, leveraging partial channel state information
- Development of resource allocation algorithms to enhance spectral efficiency using angular information with digital and hybrid beamforming techniques

#### RESEARCH INTERN

*LabSTICC, IMT Atlantique - Brest, March – July 2018*

- Investigation and evaluation of the impact of 5G channel environments and large-scale 2D/3D antenna arrays on existing precoding techniques

### CERTIFICATION

*Standardisation & Technology*  
EIT Digital -Coursera, July 2025

*Supervised Machine Learning (33 hours)*  
DeepLearning.AI and Stanford Online-Coursera, April 2025

### EDUCATION

*Ph.D. in Telecommunications*

*IMT Atlantique-Brest, October 2018 – March 2022*

*Master's Degree in Research in Networks, Telecommunications, and Security*  
Faculty of Engineering, Lebanese University-Lebanon, 2017–2018

*Degree in Electrical-Electronic Engineering. Section: Computer and Communications*  
Faculty of Engineering, Lebanese University-Lebanon, 2013–2018

### PUBLICATIONS

[Click here to view my Google Scholar profile.](#)

- 2 international peer-reviewed journals: IEEE Access 2021, IEEE OJCOMS 2023
- 6 European and international conferences: MENACOMM 2025 (Lebanon), EuCNC 2023 (Sweden), WSA 2021 (France), IWCMC 2020 (Greece), WSA 2020 (Germany), MENACOMM 2019 (Bahrain)
- 2 peer-reviewed journals in preparation