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## Diogo Mendes

### Research Assistant

Instituto de Telecomunicações - IUL



### Contacts

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### Curriculum

Diogo Roque Mendes received the Graduate and Master's degrees in Telecommunications and Computer Engineering from Iscte-Instituto Universitário de Lisboa (ISCTE), Lisbon, Portugal, in 2019. He is currently a Student Researcher with Instituto de Telecomunicações (IT), and ISCTE, Portugal, where he is currently working towards the Ph.D. degree in Information Science and Technology in the areas of wireless communications and signal processing for telecommunications. His research interests include physical layer algorithms for massive MIMO and reconfigurable intelligent surfaces, wireless transceivers, channel estimation, modulation and coding schemes, and signal processing for communications. He is a member of the IEEE Communications Society and Chair of the IEEE ISCTE Student Branch.

### Research Interests

Signal processing for communications
Signal Transmission, Reception and Detection Algorithms
Optimization Techniques for Wireless Communications
Channel Estimation and Modeling
MIMO Communications
RIS-assisted Communications

## Academic Qualifications

University/Institution	Type	Degree	Period
ISCTE-Instituto Universitario de Lisboa	PhD	Ciências e Tecnologias da Informação - Especialização em Telecomunicações e Redes	2028
ISCTE-Instituto Universitario de Lisboa	M.Sc.	Engenharia de Telecomunicações e Informática	2019
ISCTE-Instituto Universitario de Lisboa	Licenciate	Engenharia de Telecomunicações e Informática	2017

## Teaching Activities

Teaching Year	Sem.	Course Name	Degree(s)	Coord
2026/2027	1º	Fundamentals of Signals and Systems	Bachelor Degree in Telecommunications and Computer Engineering;	No
2024/2025	1º	Object Oriented Programming	Bachelor Degree in Digital Technologies and Artificial Intelligence;	No
2018/2019	1º	Introduction to Programming	Bachelor Degree in Computer Science and Business Management; Bachelor Degree in Telecommunications and Computer Engineering;	No

## Publications

### • Scientific Journals

#### - Scientific journal paper

1	Mendes, D., Souto, N., Pavia, J. P. & Silva, J. (2026). Optimizing the achievable sum-rate in OFDM-based Multi-User MIMO systems assisted by multiple Beyond-Diagonal RISs. IEEE Open Journal of the Communications Society. 7, 1843-1860
2	Mendes, D., Pavia, J. P., Souto, N., Silva, J. & Correia, A. (2026). Beamforming optimization and system level assessment in RIS-aided MIMO systems comprising hybrid precoding architectures. IEEE Access. 14, 29333-29348