



Andrea Quirini

● WORK EXPERIENCE

01/11/2020 – CURRENT Rome, Italy

PHD STUDENT SAPIENZA UNIVERSITY OF ROME

During my PhD I focused on radar systems based on multi-domain Non-Uniform Linear Array (NULA) configurations, aimed at target detection against clutter and noise, and target direction of arrival estimation.

The main motivation that supports this research is the emerging interest towards low-cost radar systems, such as passive coherent location systems. In this perspective, NULA configurations are particularly suited to economic and computational cost containment.

PhD thesis: "Signal processing techniques and design strategies for radar systems based on multi-dimensional non-uniform linear arrays".

● EDUCATION AND TRAINING

01/11/2020 – 31/10/2023 Rome, Italy

DOCTOR OF PHILOSOPHY (PHD) Sapienza University of Rome

Address Via Eudossiana 1, 00185, Rome, Italy |

Website [https://phd.uniroma1.it/web/INFORMATION-AND-COMMUNICATION-TECHNOLOGY-\(ICT\)_nD3552_EN.aspx](https://phd.uniroma1.it/web/INFORMATION-AND-COMMUNICATION-TECHNOLOGY-(ICT)_nD3552_EN.aspx)

01/09/2018 – 30/10/2020 Rome, Italy

MASTER'S DEGREE Sapienza University of Rome

Address Via Eudossiana 1, Rome, Italy | **Field of study** Information and Communication Technologies |

Final grade 110/110 cum Laude |

Thesis Signal Processing Techniques and Design Strategies for Radar Systems based on Non-Uniform Linear Arrays

19/08/2019 – 01/05/2020 Atlanta, United States

MASTER'S DEGREE Georgia Institute of Technology

Address North Avenue, 30332, Atlanta, United States | **Field of study** Electrical and Computer Engineering (ECE) |

Final grade GPA 3.875/4

01/09/2015 – 24/07/2018 Rome, Italy

BACHELOR'S DEGREE Sapienza University of Rome

Address Via Eudossiana 1, Rome, Italy | **Field of study** Information and Communication Technologies |

Final grade 110/110 cum Laude

● LANGUAGE SKILLS

Mother tongue(s): **ITALIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C2	C1	C1	C1
FRENCH	B1	B1	B1	B1	B1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● **ADDITIONAL INFORMATION**

PUBLICATIONS

[A Flexible Design Strategy for Three-Element Non-Uniform Linear Arrays](#) – 2023

[Outlier Rejection Approach for Direction of Arrival Estimation in Low SNR Conditions](#) – 2022

[Non-Uniform Linear Arrays for Target Detection and DoA Estimation in Passive Radar STAP](#) – 2022

[An apodization approach for passive GMTI Radar with Non-Uniform Linear Arrays](#) – 2022

[A simple NULA design strategy for target detection and DoA estimation in mobile passive radar](#) – 2022
