Alessandro Traspadini

Date of birth: 28/08/1997 | **Nationality:** Italian | **Gender:** Male | **Email address:** alessandro.traspadini@unipd.it

EDUCATION AND TRAINING

01/10/2022 – CURRENT Padova, Italy
PH.D. STUDENT IN INFORMATION ENGINEERING University of Padova

Main research topics: Non-Terrestrial networks, 6G wireless networks, vehicular communications, mmWave communications.

Field of study Information and Communication Technologies | **Level in EQF** EQF level 8

30/09/2019 – 26/08/2021 Padova, Italy
GRADUATED IN ICT FOR INTERNET AND MULTIMEDIA - TELECOMMUNICATIONS University of Padova

Field of study Information and Communication Technologies | **Final grade** 110/110 cum laude | **Level in EQF** EQF level 7 |

Thesis Scheduling for MU-MIMO using hybrid beamforming based on DPC

01/09/2020 – 26/08/2021 Taipei, Taiwan
MASTER OF SCIENCE IN THE GRADUATE INSTITUTE OF COMMUNICATION ENGINEERING - DOUBLE DEGREE National Taiwan University

Field of study Information and Communication Technologies | **Final grade** 4 (over 4) | **Level in EQF** EQF level 7 |

Thesis Scheduling for MU-MIMO using hybrid beamforming based on DPC

WORK EXPERIENCE

01/10/2024 – CURRENT Padova, Italy
UNIVERSITY TEACHING ASSISTANT UNIVERSITY OF PADOVA

Conducted laboratory sessions for the Machine Learning course

01/10/2021 – 30/09/2022 Padova, Italy
POSTGRADUATE RESEARCHER UNIVERISTY OF PADOVA

Main research topics: Non-Terrestrial networks, 6G wireless networks, mmWave communications.

01/03/2022 – 01/06/2022 Padova, Italy
UNIVERSITY TEACHING ASSISTANT UNIVERSITY OF PADOVA

Assisted in teaching the Computer Networks course.

LANGUAGE SKILLS

Mother tongue(s): **ITALIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	B2	B2	B2	B2	B2

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

DIGITAL SKILLS

Python | Linux OS | Windows OS | C++ | Microsoft Office | Git

PUBLICATIONS

2024
Enhanced Time Division Duplexing Slot Allocation and Scheduling in Non-Terrestrial Networks

A. Traspadini, M. Giordani, and M. Zorzi, "Enhanced Time Division Duplexing Slot Allocation and Scheduling in Non-Terrestrial Networks," 2024 58th *Asilomar Conference on Signals, Systems, and Computers*, Pacific Grove, CA, USA, Dec. 2024 (to appear).

2024
Questset: A VR Dataset for Network and Quality of Experience Studies

S. Baldoni, F. Battisti, F. Chiariotti, F. Mistrorigo, A. B. Shofi, P. Testolina, A. Traspadini, A. Zanella, and M. Zorzi. Apr. 2024. Questset: A VR Dataset for Network and Quality of Experience Studies. In *Proceedings of the 15th ACM Multimedia Systems Conference (MMSys '24)*. Association for Computing Machinery, New York, NY, USA.

2023
On the Energy Consumption of UAV Edge Computing in Non-Terrestrial Networks

A. Traspadini, M. Giordani, G. Giambene, T. De Cola and M. Zorzi, "On the Energy Consumption of UAV Edge Computing in Non-Terrestrial Networks," 2023 *57th Asilomar Conference on Signals, Systems, and Computers*, Pacific Grove, CA, USA, Dec. 2023.

2023
Real-Time HAP-Assisted Vehicular Edge Computing for Rural Areas

A. Traspadini, M. Giordani, G. Giambene and M. Zorzi, "Real-Time HAP-Assisted Vehicular Edge Computing for Rural Areas," in *IEEE Wireless Communications Letters*, vol. 12, no. 4, pp. 674-678, April 2023.

2022
On the Performance of Non-Terrestrial Networks to Support the Internet of Things

D. Wang, A. Traspadini, M. Giordani, M. -S. Alouini and M. Zorzi, "On the Performance of Non-Terrestrial Networks to Support the Internet of Things," 2022 *56th Asilomar Conference on Signals, Systems, and Computers*, Pacific Grove, CA, USA, Nov. 2022.

2022
UAV/HAP-Assisted Vehicular Edge Computing in 6G: Where and What to Offload?

A. Traspadini, M. Giordani, M. Zorzi "UAV/HAP-Assisted Vehicular Edge Computing in 6G: Where and What to Offload?" *Joint European Conference on Networks and Communications 6G Summit (EuCNC/6G Summit)*, Jun. 2022.

2022
An Open Framework to Model Diffraction by Dynamic Blockers in Millimeter Wave Simulations

P. Testolina, M. Lecci, A. Traspadini, M. Zorzi "An Open Framework to Model Diffraction by Dynamic Blockers in Millimeter Wave Simulations," *IEEE Mediterranean Communication and Computer Networking Conference (MedComNet)*, Jun. 2022.