

#### PHD STUDENT

Department of Information Engineering, University of Padua Via Gradenigo 6, 35131 Padova, Italy

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# **Experience**

University of Padua Padua, Italy

Teaching Assistant Mar. 2024 - Current

· Course: Control Engineering Laboratory

## Education

University of Padua Padua, Italy

PHD IN INFORMATION ENGINEERING

Oct. 2023 - Current

- Research Topic: Memory effects on classical and quantum networks
- Advisors: Prof. Francesco Ticozzi, Prof. Giacomo Baggio

University of Padua Padua, Italy

M.Sc. in Control Systems Engineering

Oct. 2021 - Sep. 2023

• Thesis: Controllability on networks, influence of strucure and memory

• Advisors: Prof. Francesco Ticozzi, Prof. Giacomo Baggio

University of Padua Padua, Italy

B.Sc. IN COMPUTER ENGINEERING

Oct. 2018 - Sep. 2021

· Thesis: Quadcopter modelling and control

· Advisors: Prof. Sandro Zampieri

I.T.I F. Severi Padua, Italy

HIGH SCHOOL DIPLOMA - COMPUTER SCIENCE AND TELECOMMUNICATION

Oct. 2018 - Sep. 2023

## Research Interests\_

My research is currently mainly focused on memory effects on classical and quantum networks. As a side project we are also investigating the use of system-theoretic method for quantum state reconstruction and verification on quantum networks.

I am also working on new kernel-based methods for systems identification with prof. Mattia Zorzi.

#### Personal Skills

**Languages** Italian (Mother tongue), English (≈ B2)

**Computer skills** 

MATLAB, Simulink, latex, Microsoft office suite, python, c/c++ languages. System identification toolbox and control systems toolbox for MATLAB and Simulink.

#### **Publications**

#### SUBMITTED PAPERS

- "Identification of forward models: a nonparametric approach",
  G. Fattore, M. Peruzzo, G. Sartori and M. Zorzi, 2024. Submitted.
- "Reconstructing Quantum States from Local Observation: A Dynamical Viewpoint", M. Peruzzo, T. Grigoletto and F. Ticozzi, IEEE Conference on Decision and Control (CDC), Milan, 2024. To appear.
- "A kernel-based PEM estimator for forward models",

  "Setters M Permana C. Setters and M. Zerri JEAC Symposium on Sug
  - G. Fattore, M. Peruzzo, G. Sartori and M. Zorzi, IFAC Symposium on System Identification (SYSID), Boston, USA, 2024.
- "Exploring the Impact of Memory on Network Controllability",
  - M. Peruzzo, G. Baggio and F. Ticozzi, European Control Conference (ECC), Stockholm, Sweden, 2024.

# Fellowships and Grants

#### INTERNATIONAL

2023 **Phd scholarship**, University of Padua

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