

Tommaso Grigoletto

PHD STUDENT

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Education

University of Padua

Padua

PH.D. STUDENT IN INFORMATION ENGINEERING

October 2020 - September 2023

- Tentative thesis title: Exact model reduction for quantum systems
- Advisor: Prof. Francesco Ticozzi

University of Padua

Padua

M.SC. IN AUTOMATION ENGINEERING

October 2018 - July 2020

- Thesis: Measurement-based switching control for quantum systems
- Advisor: Prof. Francesco Ticozzi

University of Padua

Padua

B.SC. IN INFORMATION ENGINEERING

October 2015 - July 2018

- Thesis: Control system for a rocket soft landing
- Advisor: Prof. Mauro Bisiacco

I.T.I.S. Rossi

Vicenza

HIGH SCHOOL

September 2010 - July 2015

- Thesis: Control system for a quadcopter
- Advisor: Prof. Paolo Fumene Ferruglio

Professional Experience

- 10 2020- 10 2023 **Ph.D. Student**, Dept. of Information Engineering, University of Padua
03-06 2023 **Teaching Assistant**, Control engineering laboratory, University of Padua
08 2022 - 02 2023 **Visiting student**, Physics department, Dartmouth College
03-06 2022 **Teaching Assistant**, Control engineering laboratory, University of Padua

Publications

JOURNAL PAPERS

Tommaso Grigoletto, and Francesco Ticozzi. “Algebraic Reduction of Hidden Markov Models” IEEE Transactions on Automatic Control (2023).

Grigoletto, Tommaso, and Francesco Ticozzi. “Stabilization via feedback switching for quantum stochastic dynamics.” IEEE Control Systems Letters (2021).

CONFERENCE PAPERS

Tommaso Grigoletto, and Francesco Ticozzi. “Minimal resources for exact simulation of quantum walks” 2022 61th IEEE Conference on Decision and Control (CDC). IEEE, 2022.

Benciolini, Tommaso, **Tommaso Grigoletto**, and Mattia Zorzi. “Image compression by means of the multidimensional circulant covariance extension problem–Revisited.” 2020 59th IEEE Conference on Decision and Control (CDC). IEEE, 2020.

SUBMITTED PAPERS

Weichao Liang, **Tommaso Grigoletto**, and Francesco Ticozzi. “Switching stabilization of quantum stochastic master equations” 2022.

Tommaso Grigoletto, and Francesco Ticozzi. “Model Reduction for Quantum Systems: Discrete-time Quantum Walks and Open Markov Dynamics” 2023.

Awards, Fellowships, & Grants

- 2022 **Gini scholarship**, Fondazione Aldo Gini, University of Padua
- 2020 **Ph.D. scholarship**, University of Padua
- 2015 **Tekne scholarship**, Regione Veneto
- 2014 **Leonardo scholarship**, CPV
- 2013 **Partecipated to the Robocup World Cup**, in Eindhoven

Personal skills

LANGUAGES

Mother tongue: Italian

Other languages: English, between a B2 and C1 level

PROGRAMMING SKILLS

Basic: ECDL, CAD design, HTML, JavaScript, PLC programming languages

Intermediate: Java, C++

Advanced: Phyton, Matlab