

# MIRKO CONSIGLIO

## Theoretical Physicist & Enthusiastic Programmer

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## EDUCATION

### B.Sc. (Hons.) in Mathematics and Physics

University of Malta

Oct 2016 – Jun 2020

Msida, Malta

First Class (Honours)

### Ph.D. in Physics

University of Malta

Oct 2020 – Sep 2024

Msida, Malta

## PUBLICATIONS

### Dissertation

- Consiglio, M. (2020). *Decoherence Effects on Quantum Information Processing Protocols* (Bachelor's Dissertation). Retrieved from <https://www.um.edu.mt/library/oar/handle/123456789/63750>

### Journal Articles

- Consiglio, M., Chetcuti, W. J., Bravo-Prieto, C., Ramos-Calderer, S., Minguzzi, A., Latorre, J. I., ... Apollaro, T. J. G. (2022). Variational Quantum Eigensolver for SU(N) Fermions. *Journal of Physics A: Mathematical and Theoretical*. Retrieved from <http://iopscience.iop.org/article/10.1088/1751-8121/ac7016>
- Consiglio, M., Mangion, L. Z., & Apollaro, T. J. G. (2021). The Role of Localizable Concurrence in Quantum Teleportation Protocols. *International Journal of Quantum Information*, 19(05). doi:10.1142/s0219749921500246

### Preprints

- Apollaro, T. J. G., Lorenzo, S., Plastina, F., Consiglio, M., & Życzkowski, K. (2022). Quantum Transfer of Interacting Qubits. doi:10.48550/arxiv.2205.01579
- Lorenzo, S., Plastina, F., Consiglio, M., & Apollaro, T. J. G. (2021). Quantum Map Approach to Entanglement Transfer and Generation in Spin Chains. doi:10.48550/arxiv.2112.02348

## WORK EXPERIENCE

### Lab Demonstrator

University of Malta

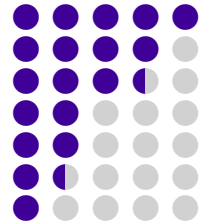
16th Oct 2020 – 30th Jun 2022

Msida, Malta

Student and experiment supervision, lab report correction, lecturing in physical concepts.

## DIGITAL SKILLS

Python  
Mathematica  
LaTeX  
C++  
Javascript  
Linux  
Git



## ORGANISATIONAL SKILLS

- Effective time management and planning.
- Scientific aptitude, with a keen eye for detail.
- Meticulous organiser, able to up-skill rapidly.
- Accurate researcher and able to carry out assignments with utmost efficiency.

## COMMUNICATION AND INTERPERSONAL SKILLS

- High level communication skills attained while performing voluntary activities.
- Psychology lectures help me understand others more and deal with different situations.
- Capable of working both individually or in a team.
- Outgoing and positive.

## JOB-RELATED SKILLS

- Ability to work under pressure.
- Problem-solving aptitude, with a keen eye for detail.
- Excellent planning and management ability.
- Flexible and competent at adjusting to any situation and environment.
- Tutoring students in mathematics and physics.

## OTHER SKILLS AND HOBBIES

- Independently learning music production, piano and guitar.
- Solving various complex puzzles and Rubik's cubes.
- Taking part in table-top gaming tournaments, helping to develop strategic, tactical and analytical skills.
- Avid gamer, helped improve hand-to-eye coordination and reaction speeds, critical thinking and multi-tasking ability.

## CONFERENCES AND SEMINARS

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### European Quantum Future Academy 2020

📅 4th Nov 2020 – 6th Nov 2020

📍 Virtual

### Atomtronics Abu Dhabi 2021

📅 31st May 2021 – 11th Jun 2021

📍 Virtual

### Qiskit Unconference and Workshop

University of Helsinki

📅 19th Nov 2021 – 24th Nov 2021 📍 Helsinki & Ivalo, Finland

### 2nd European Quantum Technologies Virtual Conference

📅 29th Nov 2021 – 2nd Dec 2021

📍 Virtual

## NETWORKING

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### ACROSS - Quantum Computers as Open Quantum Systems

University of Catania, University of Palermo

📅 7th Apr 2022 – 15th Apr 2022 📍 Catania & Palermo, Italy

## LANGUAGES

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Maltese  
English  
French  
Italian

