Marco Túlio Quintino

Curriculum Vitae

Associate Professor
(Maître de Conférences, HDR)
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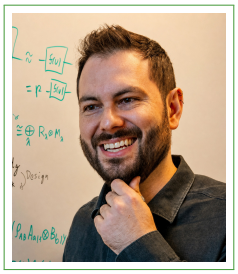
mtcq.github.io
Google Scholar / arXiv



Last updated: 25 August 2026

Research interests

Quantum information and computation, quantum correlations (entanglement, Bell nonlocality, EPR steering, measurement incompatibility, and prepare-and-measure scenarios), quantum state and channel discrimination, higher-order quantum operations, causality in quantum theory, and semidefinite optimisation.

Current employment

Sep 2022 – Present — **Associate Professor (Maître de Conférences, HDR)**, *Sorbonne University*, Paris, France
Member of the Quantum Information team at LIP6

Employment history

Mar 2021 – Aug 2022 — **Postdoctoral researcher**, *IQOQI Vienna*, Vienna, Austria
Postdoctoral researcher in the group of Prof. Časlav Brukner
Funding: ESQ postdoc fellowship

Jun 2020 – Mar 2021 — **Postdoctoral researcher**, *University of Vienna*, Vienna, Austria
Postdoctoral researcher in the group of Prof. Časlav Brukner
Funding: Austrian Science Fund (FWF) through the SFB project BeyondC

Mar 2019 – May 2020 — **Postdoctoral researcher**, *The University of Tokyo*, Tokyo, Japan
Postdoctoral researcher in the group of Prof. Mio Murao
Funding: Q-LEAP project of the MEXT Japan

Nov 2016 – Nov 2018 — **Postdoctoral researcher**, *The University of Tokyo*, Tokyo, Japan
Postdoctoral researcher in the group of Prof. Mio Murao
Funding: JSPS postdoc fellowship

Education

Jan 2025 — **Habilitation to Direct Research (HDR) in Computer Science**, *Sorbonne University*, Paris, France
Quantum information processing via higher-order operations

2012 – 2016 — **PhD in Physics**, *Université de Genève*, Geneva, Switzerland
Quantum entanglement and measurement incompatibility as resources for nonlocality
Supervisor: Nicolas Brunner

2010 – 2012 — **MSc in Physics**, *UFMG*, Belo Horizonte, Brazil
Black box correlations: locality, noncontextuality, and convex polytopes
Supervisor: Marcelo Terra Cunha; co-supervisor: Daniel Cavalcanti

2007 – 2010 — **BSc in Physics**, *UFMG*, Belo Horizonte, Brazil
Não-localidade como recurso para comunicação
Supervisor: Marcelo Terra Cunha

Languages and skills

Languages — Portuguese (native), English (fluent), French (fluent), Spanish (advanced), and Japanese (intermediate).

Programming — MATLAB and Mathematica (advanced), with familiarity in Julia, Python, and Bash.

Research profile

Publications 65 research articles: 52 peer-reviewed journal publications and 13 preprints. These include 13 articles in *Physical Review Letters*, 3 in *Nature Communications*, 2 in *PRX Quantum*, 14 in *Quantum*, and 2 in *IEEE Transactions on Information Theory*.

Collaboration More than 110 co-authors across an international research network.

Conferences Invited to speak at 14 conferences/workshops; presented 31 conference/workshop talks overall. Three co-authored submissions were accepted for oral presentation at QIP.

Complete record Up-to-date publications and citation metrics are available through Google Scholar, arXiv, and my personal website.

Research supervision and teaching

Supervision Currently supervising 4 PhD students. Completed the co-supervision of 2 PhD students and 2 master's theses, and supervised 8 master's internship projects.

Teaching At least 121 hours of lectures and 308 hours of tutorials, in addition to one-off lectures and teaching-assistant appointments. Teaching spans undergraduate computer science and master's-level quantum information.

Course design Created or substantially reformulated the courses "Quantum Circuits and Query Complexity" and "QIIntro" for Sorbonne University's Master's programme in Quantum Information.

Academic responsibilities

Since Sep 2023 **Deputy coordinator (responsable adjoint)** of Sorbonne University's Master's programme in Quantum Information: curriculum design, admissions, and master's thesis examinations.

Committees Programme committee member for 8 conferences, including Causalworlds 2024/2026, AQIS 2024/2025, CEQIP 2025, and YQIS 2018/2019/2025. Selection-panel service for NII internships, QuanG2, and EDITE doctoral contracts.

Examinations Thesis reviewer or defence-board member for 10 PhD and 2 MSc examinations; external member of 10 individual thesis monitoring committees.

Reviewing Referee for *PRL*, *PRX*, *PRX Quantum*, *PRA*, *Quantum*, *npj Quantum Information*, *Optica*, and other journals; conference reviewer for QIP, STOC, TQC, and AQIS.

Organisation Co-organiser of the Japanese-French Quantum Information 2023 Workshop, Tokyo.

Selected research funding and fellowships

2025 – 2030 **Principal Investigator and project coordinator**, *ANR JCJC HOQO-KS*, Sorbonne University / LIP6, France
Higher-Order Quantum Operations with Known States; EUR 358,660

2025 – 2026 **Research mobility project**, *PHC Polonium, with Michał Studziński*, Sorbonne University / University of Gdańsk, France and Poland
Efficient methods for storing and transforming quantum programs

2023 – 2026 **Funding for PhD student**, *QuanTEdu France doctoral contract*, Sorbonne University / LIP6, France
One 36-month doctoral contract from the French National Quantum Plan

2020 **Postdoctoral research fellowship**, *ESQ Postdoc Fellowship Program*, Austrian Academy of Sciences / IQOQI Vienna, Austria/EU
EUR 124,506

2016 – 2019 **JSPS fellow and KAKENHI co-investigator**, *The University of Tokyo*, Tokyo, Japan
JSPS Fellowship (2016–2018): JPY 8,888,000; KAKENHI (2016–2019) direct costs: JPY 2,100,000