University of Technology Sydney (UTS) *Quantum Circuit Design & Verification* Project

Two PhD Positions are open! *Please send your CV and academic transcripts to Profs Yuan Feng and Sanjiang Li*

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Research Directions (see <u>VeriQC.com</u> for more info.)

quantum circuit design and verification, quantum software, and quantum artificial intelligence

The project aims to develop comprehensive theory and effective techniques for formal modelling, equivalence checking, and model checking of quantum combinational and sequential circuits.

This PhD offer includes: 3-4 Years Full PhD Scholarship (>AU\$28,000 each year) + tuition

Interested applicants who are self-motivated and with strong backgrounds in computer science, physics, mathematics, or electronics are welcome!

University of Technology Sydney

QS World University Rankings 2023 global ranking137Times Higher Education World University Rankings143Computer Science at UTS in ARWU global ranking11

The UTS Centre for Quantum Software & Information UTS:Q|SI>

is international leading in Quantum Computing

Most recent publications appear in AAAI, DAC, ICCAD, ACM TODAES, IEEE TC, IEEE TCAD, etc. Some representative works:

[Book] <u>Model Checking Quantum Systems: Principles and</u> <u>Algorithms</u>, Cambridge University Press, 2021

A Tensor Network based Decision Diagram for Representation of Quantum Circuits, ACM Transactions on Design Automation of Electronic Systems, 2022

<u>Qubit mapping based on subgraph isomorphism and filtered</u> <u>depth-limited search</u>, *IEEE Transactions on Computers*, 2021