

**Workshop on Quantum Software 2022**  
**Centro Congressi - University of Naples Federico II**  
*12 November 2022*  
Technical Program

*The schedule is given in Central European Summer Time (CEST - UTC+02 ROME - ITALY)*

<b>Saturday 12 November</b>	
9:00 – 9:10	Opening
9:10 – 10:00	<b>Keynote Talk</b> <i>Quantum Hoare logic and its applications</i> Speaker: Mingsheng Ying, Chinese Academy of Science, Beijing
10:00 – 10:20	<i>Quantum Data Types via Linear Homotopy Type Theory</i> Speaker: Urs Schreiber, CQTS, New York University, Abu Dhabi
10:20 – 10:40	<b>Coffee Break</b>
10:40 – 11:00	<i>QHAna: A tool for comparing classical and quantum machine learning</i> Speaker: Johanna Barzen, University of Stuttgart
11:00 – 11:20	<i>We need more PISQ-driven Quantum Logic Research</i> Speaker: Koen Bertels, University of Porto
11:20 – 11:40	<i>Machine Learning for Quantum System Software</i> Speaker: Sebastian Feld, QuTech, Delft University of Technology
11:40 – 12:00	<i>Characterizing quantum benchmarks for improved mapping of quantum circuits</i> Speaker: Medina Bandic, Delft University of Technology
12:00 – 12:20	<i>MQT: The Munich Quantum Toolkit</i> Speaker: Kevin Mato, Technical University of Munich
12:20 – 13:10	<b>Lunch Break</b>
13:10 – 13:30	<i>Software Solutions to Hardware Limitations for Quantum Sampled RBMs</i> Speaker: Ilmo Salmenperä, University of Helsinki
13:30 – 13:50	<i>A Static Analysis of Uncomputation</i> Speaker: Nicola Assolini, University of Verona
13:50 – 14:00	<b>Closing</b>