

The 2023 ESAS Award for Excellence Winner is



Dr. Lixing You
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Microsystem and Information
Technology (SIMIT), Chinese
Academy of Sciences (CAS),
R3307, 865 Changning Road,
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The ESAS Board is pleased to announce that the ***2023 ESAS Award for Excellence in Applied Superconductivity*** is presented to our esteemed colleague Dr. Lixing You from the Shanghai Institute of Microsystem and Information Technology (SIMIT), Chinese Academy of Sciences (CAS), R3307, 865 Changning Road, Shanghai 200050, China.

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The certificate reads: The recipient of the 2023 ESAS Award for Excellence in Applied Superconductivity is Dr. Lixing You to acknowledge his outstanding achievements in the field of superconducting electronics and quantum information processing. His experiments on Superconducting Nanowire Single Photon Detectors (SNSPDs) for Quantum Key Distribution (QKD) have been fundamental in demonstrating quantum communication in a 658 km fibre, including establishing a 93% record System Detection Efficiency of SSPDs in a 2.4K space-application-compatible cryocooler. The most significant breakthrough of Lixing You's work, however, is his contribution to the optical quantum computer JIUZHANG that has demonstrated quantum supremacy and for which he developed the 100-channel SSPD system incorporating seven cryocoolers as the key module of JIUZHANG. Furthermore, Lixing You has been very proactive in the broader field of standardization, where he contributed to the the first published international standard in the field of superconductor sensors and detectors.