



# NANO KOREA 2024

The 22nd International Nanotech Symposium & Exhibition

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## **Prof. Yun-Pil Shim**

The University of Texas at El Paso, USA



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Prof. Yun-Pil Shim got his Ph.D. in Physics at the University of Texas at Austin. He has researched condensed matter physics and quantum computing at the National Research Council of Canada, the University of Wisconsin-Madison, and the Laboratory for Physical Sciences at the University of Maryland. He is currently an assistant professor of Physics at the University of Texas at El Paso.

His research focuses on the physical implementation of quantum computing in solid-state devices. He has theoretically proposed possible qubit designs and efficient schemes for gate operations for spin qubits in semiconductor quantum dots and superconducting qubit systems. He has also worked on possible applications of near-term intermediate-scale quantum (NISQ) devices and novel materials for quantum applications.