



NYCU 國立陽明交通大學
NATIONAL YANG MING CHIAO TUNG UNIVERSITY

Wearable Ultrasound 穿戴式超音波技術

Soft ultrasonic technology enables noninvasive and continuous acquisition of dynamic information from deep tissues and central organs.
It has broad applications in consumer electronics, defense medicine, and clinical practices.



THURSDAY

AUGUST 27, 2026

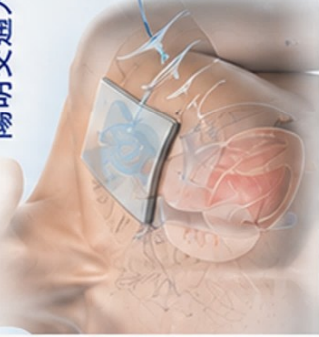


10:00 AM



College of Science Building 3
SC353

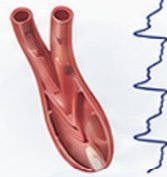
National Yang Ming Chiao Tung University
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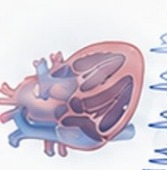
Soft & Conformal
Ultrasound Patch

Deep-tissue Sensing
Noninvasive • Continuous

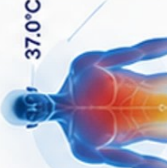
Blood Pressure
& Flow Waveforms



Cardiac Chamber
Activities



Core Body
Temperature



Deep-tissue
Monitoring



BIO

Dr. Sheng Xu is a tenured professor and the inaugural Director of Emerging Technologies in the Department of Anesthesiology, Perioperative and Pain Medicine at Stanford University, with courtesy appointments in Electrical Engineering and Materials Science and Engineering. He earned his B.S. degree in Chemistry from Peking University and his Ph.D. in Materials Science and Engineering from the Georgia Institute of Technology. Subsequently, he pursued postdoctoral studies at the Materials Research Laboratory at the University of Illinois at Urbana-Champaign. His research group is interested in developing new materials and fabrication methods for soft electronics, with a particular focus on **wearable ultrasound technology**.

HONORS & RECOGNITIONS

- ETH Zürich Materials Research Prize for Young Investigators
- MRS Outstanding Early Career Investigator Award
- NIH Maximizing Investigators' Research Award
- NIH Trailblazer Award
- Guggenheim Fellowship
- Sloan Fellowship
- IEEE EMBS Technical Achievement Award
- Finalist of the Blavatnik National Awards for Young Scientists

Fellow of AIMBE, IEEE, and MRS



Organized by
Department of Electrophysics
National Yang Ming Chiao Tung University

All are welcome!

For more information



Sheng Xu, Ph.D.

Professor & Inaugural Director of
Emerging Technologies
Stanford University

Courtesy Professor, Electrical Engineering

Courtesy Professor, Materials Science and Engineering

Joined Stanford University in 2025

(From University of California, San Diego)