



Yu-Tsun Shao's primary research focuses on understanding the interplay between spin, lattice, polarization, and charge in quantum materials by developing and employing novel electron microscopy techniques, specifically four-dimensional scanning transmission electron microscopy (4D-STEM). Specifically, he applies 4D-STEM to (multi-)ferroic crystals to study their local polar/magnetic order, strain, and chiralities during topological phase transitions. Yu-Tsun received his Ph.D. in Materials Science and Engineering at the University of Illinois at Urbana-Champaign in 2018 and is currently a Postdoctoral Researcher in Professor David Muller's group at Cornell University. He is a recipient of the Robert P. Apkarian Postdoctoral Scholar Award (2021) and

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