Proposal Abstract:

As the oldest stellar populations in our Galaxy, the Milky Way, globular clusters have long been known to be excellent ``breeding grounds" for millisecond pulsars, which are important diagnostic tools for a suite of astrophysical problems. This project aims to find new pulsars in four newly identified Galactic bulge globular clusters for the first time at FAST. Based on our calculations, we expect to reach a sensitivity of below 0.8 uJy in a 2.5-hour transit of each cluster which will be sufficient to discover several new pulsars, or in case of non-detections, to put the most stringent constraints on the pulsed radio emission of these globular clusters.