

Prof. Jacqueline Hewitt (MIT) is PI of one related grant "MRI: Acquisition of an Archive for the Murchison Widefield Array (#0821321, 08/08-7/14) and was a co-investigator on the now-completed grant that funded the US contribution to the construction of the MWA "Mileura Widefield Array Science and Technology Demonstrator" (#0457585, PI A. Whitney). **Intellectual merits:** carried out forecasting analyses that significantly influenced the design of the MWA; developed and implemented the MWA receiver's monitor and control; developed real-time and off-line tools for verification of MWA data; carried out prototype testing with the 32-element (32T) prototype array; developed a CASA-based 32T imaging pipeline leading to first mapping (Williams) and power spectrum (Dillon et al.) results; built and implemented US MWA archive, now at 400 TB and planned to grow to 1 PB when completed; currently receiving and carrying out quality checks on incoming MWA EoR data. **Broader Impacts:** The MIT group's MWA participation has enabled hands-on training of six graduate students (including one woman and one underrepresented minority student) in radio astronomy, interferometry techniques, and instrumentation development in the field. The MIT/MWA archive will be a resource for the scientific community and the public when the data proprietary period is complete.