Subgridding could reduce the memory usage to under 30GB, which could be done on a single computer. Subgridding purportedly allows these electrically large domains to be analyzed accurately without the need for large allocations of memory and resources.

Hybrid domain has shown significant reduction of errors when implementing a subgrid region in 1D domain.
Hybrid domain has shown significant reduction of errors when implementing a subgrid region in a 2D domain.
FDTD Subgridding – Madison Le

Future Work:
• Implementation of subgrid regions into 3D domains.
• Multiple subgrid regions of variable contrast ratios in single domain.

Achievements:
• ACES 2019 Student Paper Competition 3rd Place Winner

Publications:
