I co-advised Yuyang in his Ph.D. journey at UC Santa Barbara and co-chaired his dissertation in conjunction with his advisor, Prof. Kwang-Ting Cheng. His exceptional work, especially in establishing variation-aware design automation methodologies for silicon photonics, is pioneering in this field.

The scope of Yuyang’s thesis is expansive yet deeply focused, covering the spectrum from device to system level.

Yuyang was among the first to recognize and address the need for accurate co-simulation of electronic and photonic devices and circuits in a unified platform