“Segmenting and Anticipating Procedural Activities”
Tuesday, June 28, 2022 · 2:00PM · Zoom

ABSTRACT
Videos of procedural activities are goal-oriented, with multiple steps or actions in a sequence over time. In this talk, I will outline our group's efforts in developing methods for segmenting and anticipating actions in procedural videos. We take a look at two extreme approaches, one based on unsupervised discovery and the other based on fully-supervised learning from densely labelled videos. We then explore the variants in between, including semi- and weakly-supervised settings. I will conclude by introducing our newly collected dataset Assembly101 - a large-scale multi-static and ego-centric view dataset of people assembling and disassembling toys.

BIOGRAPHY
Angela Yao is a Dean's Chair Assistant Professor in the School of Computing at the National University of Singapore. She received a PhD from ETH Zurich and a BASc from the University of Toronto. Angela leads the Computer Vision and Machine Learning group, with a special focus on vision-based human motion analysis. She is the recipient of the German Pattern Recognition (DAGM) award (2018) and Singapore’s National Research Foundation's Fellowship in Artificial Intelligence (2019).