

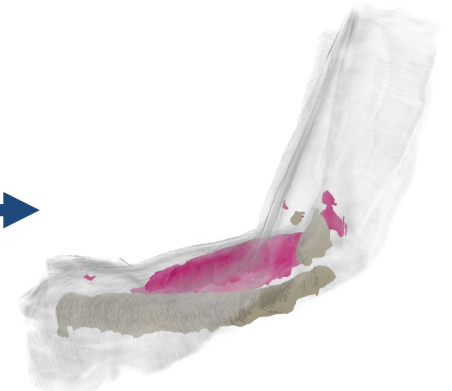
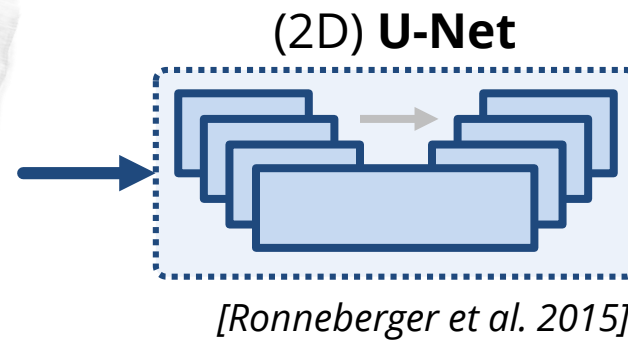
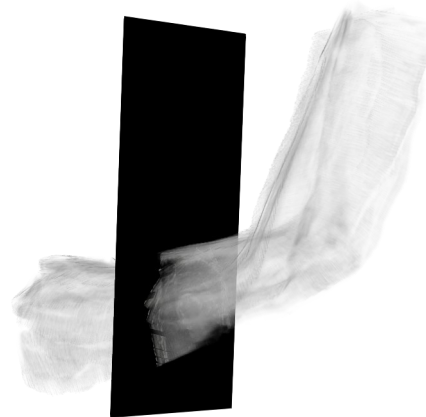
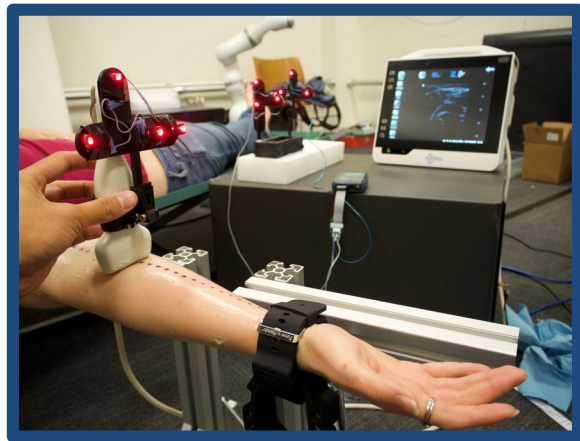
OpenArm 2.0: Automated Segmentation of 3D Tissue Structures for Multi-Subject Study of Muscle Deformation Dynamics

Yonatan Nozik*, Laura A. Hallock*, Daniel Ho, Sai Mandava, Chris Mitchell, Thomas Hui Li, and Ruzena Bajcsy

ultrasound + motion capture

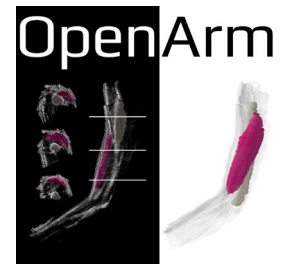
localized ultrasound data

output segmentation



CONTRIBUTION: Multi-subject deformation data under **factorial angle and force conditions** applicable to **assistive device control**, diagnosis / rehabilitation of musculoskeletal **pathology**, **animation**, and general **biomechanical modeling**

ULTIMATE OBJECTIVE: Noninvasively measure **individual muscle forces** in vivo



Download all code and data at
simtk.org/projects/openarm