

Movie Captions

- Movie 1 Experimental time evolution of bubbles of different initial shapes propagating from rest at the same flow rate.
- Movie 2 Experimental evolution of a bubble of initial width $d = 57.3\%$ propagating from rest at a flow rate $Q^* = 477$ mL/min ($Q = 0.18$) with in-flow size $r_Q = 0.54$.
- Movie 3 Experimental and numerical time evolutions of bubbles that either (i) break up and rejoin; (ii) separate. Phase plane projection indicating that these dynamics are orchestrated by edge states.
- Movie 4 Oscillating symmetric bubble of in-flow size $r_Q = 1.2$, propagating at flow rate $Q = 0.17$.