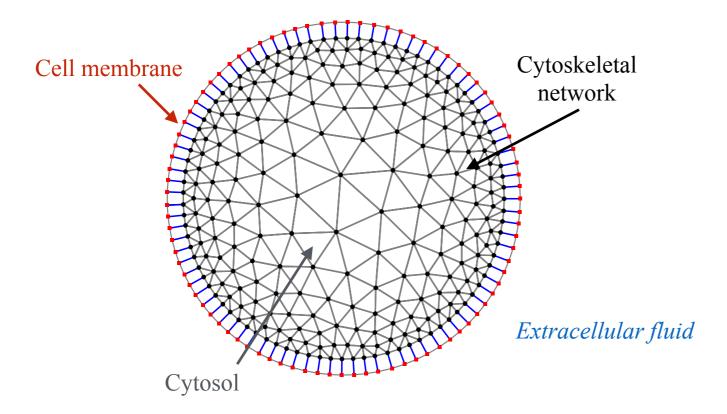
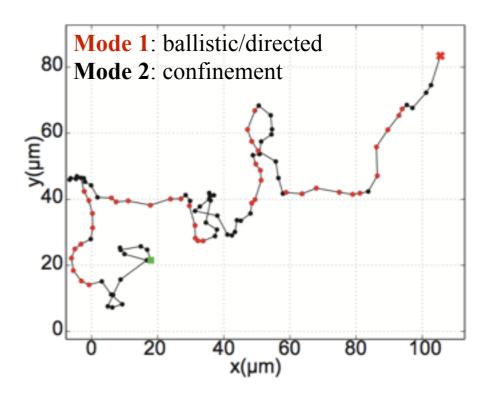
Mechanical models of motile single cells

Calina Copos (University of California Davis)

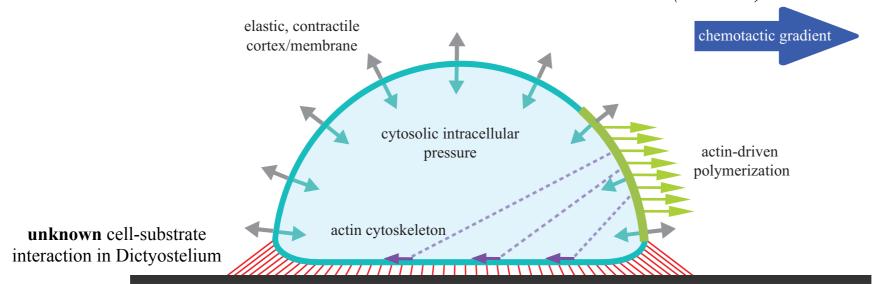
Fluid-structure models for cytoplasm rheology

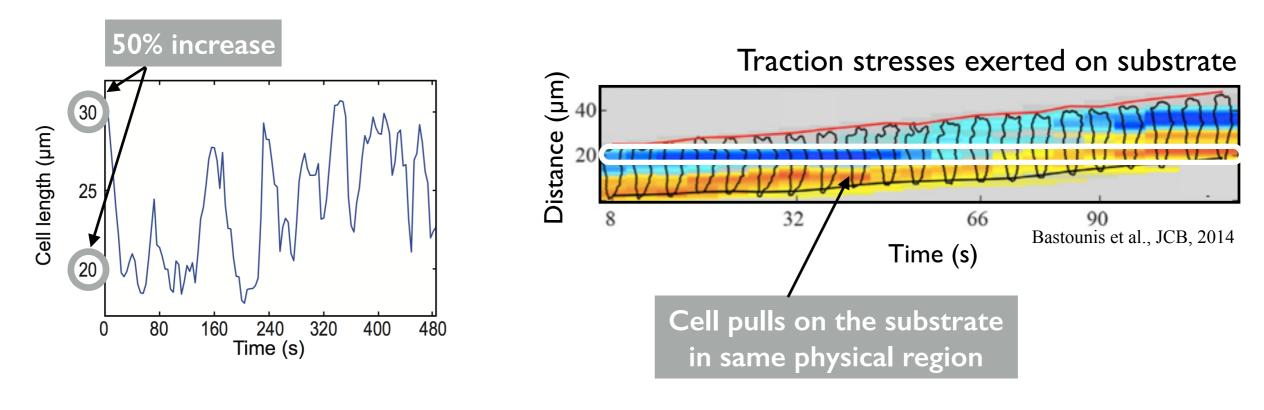


Macroscopic properties of amoeboid motility in collaboration with J.P. Rieu (C. Bernard Lyon 1)

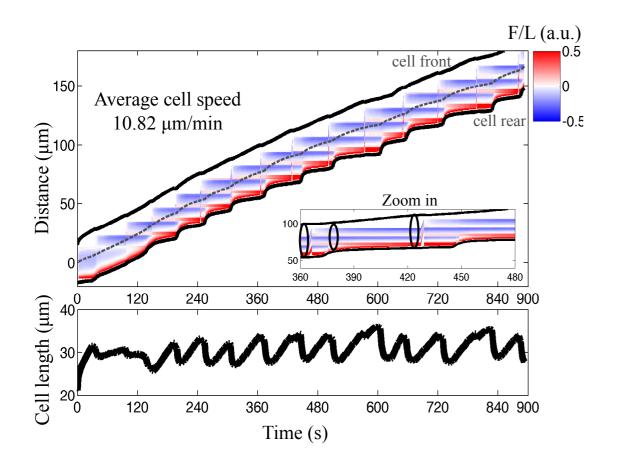


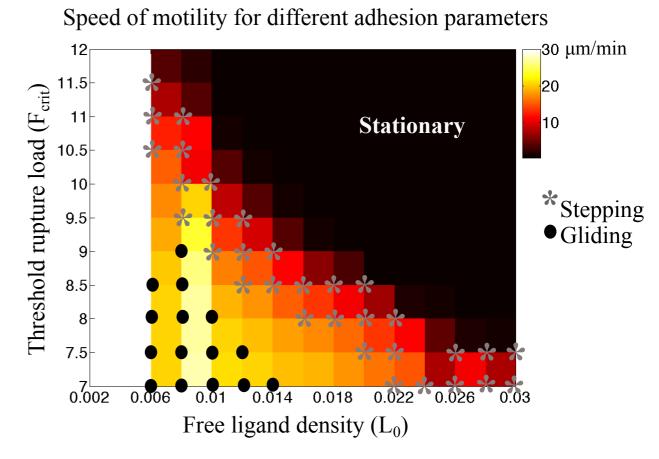
Multi-scale model of amoeboid motility in collaboration with J.C. del Alamo (UCSD)

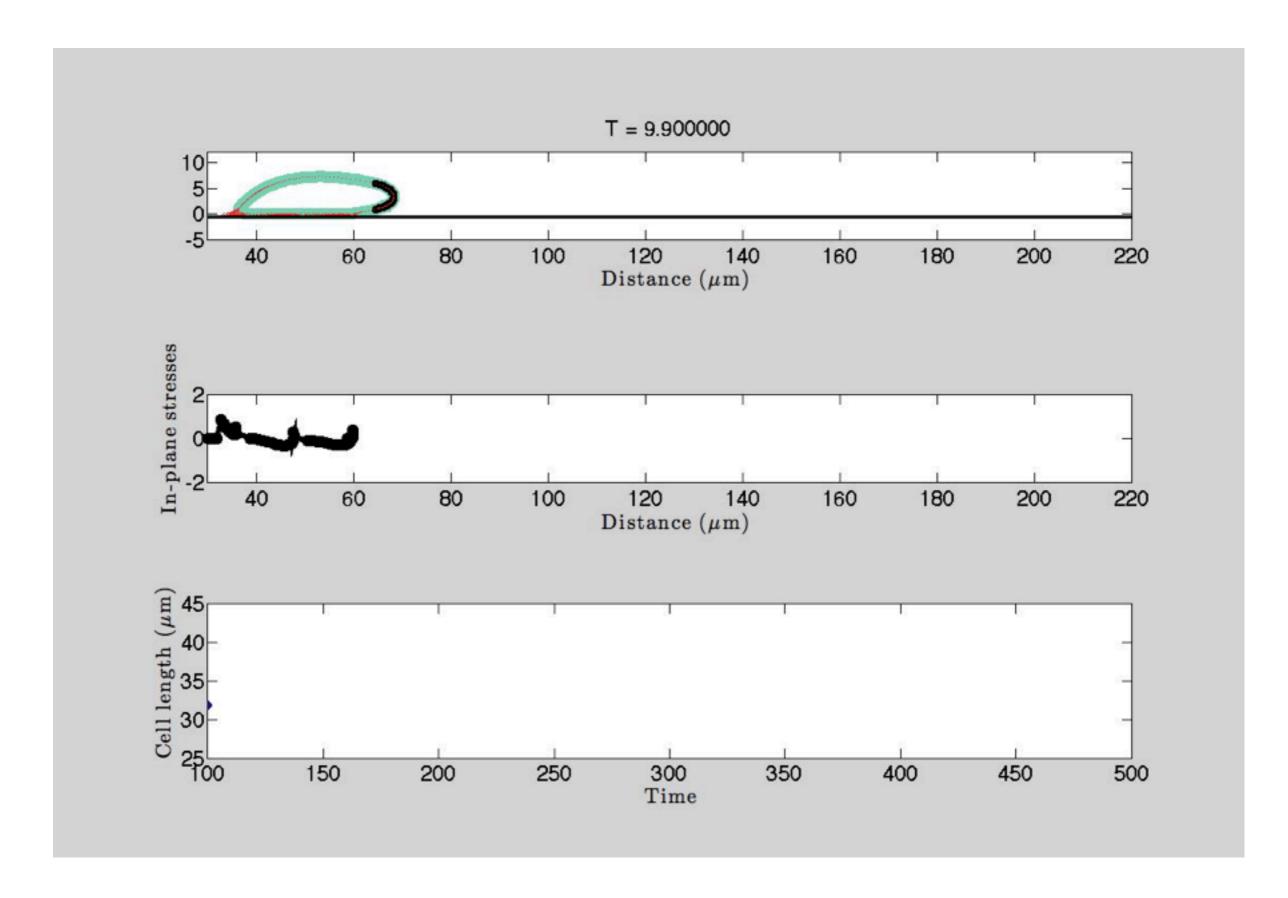




Mechanochemical model explains stepping motility in amoeboid cells * mechanosensitive cell-substrate adhesion *







Simulation of crawling single-cell *Dictyostelium discoideum* **amoeba on a flat surface**. The cell outline is shown at different time instances along with in-plane traction stresses and cell length.