# Pollen's Profiling: Automated Classification of Pollen Grains:

**– User Journey Map:**



$H_2O$ influx

Dehydrated pollen grain

Hydration

$Ca^{2+}$ influx

Activation
Actin cytoskeletal reorganization

$Ca^{2+}$ gradient establishes polarity

Pollen tube elongation

Pollen tube emergence
Callose deposition at germination site