Mostly Laura:

* Helped develop main binding-diffusion model
* Set up analytical tethered diffusion model and produced initial plots using numerical integration
* Significantly expanded and debugged hopping simulation from Loren’s initial code
* Determined mapping between physical parameters and simulation parameters for hopping simulation
* Extracted useful numbers from experimental work and predicted bound diffusion coefficient in our model

Mostly Mike

* Wrote and operated a numerical solver for nonlinear binding-diffusion equations
* Found analytic expression for bound diffusion coefficient in tether model
* Wrote the Matlab script used to calculate MSD in the hopping simulation
* Almost certainly more stuff that I didn’t see, especially as the initial binding-diffusion model was being developed

Laura and Mike together debugged the script that calculates MSD. We translated the raw hopping data into selectivity results together.

Mostly Loren

* Helped develop main binding-diffusion model
* Found an analytic solution to the linearized equations
* Wrote the initial hopping simulation code
* Figured out how to satisfy detailed balance in the hopping simulation