## 1 Timeline

Table 1: Timeline of Future Research.

Summer2017	Project 4	Experimental data collection in Oxford		
	Project 4	Produce effective concentration curves for various tether lengths, ligand sizes		
	Project 4	Evaluate circumstances of membrane net enhancement/reduction		
Fall2017	Project 4	Compare surface effects on tethering simulations to data		
	Project 2	Continue parameter exploration of electrostatics		
Winter2018	Project 1	Explore sequential binding for dephosphorylation, reversible phosphorylation		
	Project 1	Quantify reversible phosphorylation, create hill plots		
	Project 2	Investigate cooperativitiy, sequential binding from electrostatics		
	Project 4	Write paper on tethering		
Spring2018	Project 3	Explore sequential binding of multiple ligands, find dominant sequence		
	Project 1,2	Write paper for local structuring and electrostatics		
Summer2018	Project 3	Begin adding multiple chains, coreceptors to simulation		
	Project 3	Find average number of ligands able to bind receptor		
Fall2018	Project 2	Write paper for simultaneous binding of ligands		
Winter2019	Project 2	Begin investigating steric constraints of TCR clusters		
Spring2019	Project 2	TCR Clustering finished, write-up		
		Dissertation write-up		
Summer2019		Defense		
		Finish writing dissertation		

Table 2: Timeline of Coursework. Courses in italics do not count towards degree course requirements.

Fall 2014	Winter 2015	Spring2015	Summer 2015
Dev Bio 212	Dev Bio 212	Dev Bio 212	Research
Math 227A	Math 227B	Math 227C	
Dev Bio 203A	Dev Bio 232	Dev Bio 203C	
Physics 230A		M&MG 250	
Fall 2015	Winter 2016	Spring2016	Summer 2016
Math 205A	Math 205B	Math 205C	Research
Math 220A	Math 220B	Math~220C	
Math 230A	Math 230B	Math 230C	
Math 298A	Math 298B	Math 298C	
Fall 2016	Winter 2017	Spring2017	Summer 2017
Dev Bio 212	Dev Bio 212	Dev Bio 212	Research
Math 225A	Math 290B	CS 284C	Preliminary Exam
MMB 204		Physics 230B	Advancement
Fall 2017	Winter 2018	Spring2018	Summer 2018
Dev Bio 212	Dev Bio 212	Dev Bio 212	Research
Fall 2018	Winter 2019	Spring2019	Summer 2019
Dev Bio 212	Dev Bio 212	Dev Bio 212	Defense