

# Lecture IV: Evolution of social behaviour

January 2017

Done on the black/white board!  
Please see the handout for more details.

# References

- Débarre, F., Hauert, C., and Doebeli, M. (2014). Social evolution in structured populations. *Nature Communications*, 5.
- Grafen, A. and Archetti, M. (2008). Natural selection of altruism in inelastic viscous homogeneous populations. *Journal of Theoretical Biology*, 252(4):694–710.
- Nowak, M. A. (2006). *Evolutionary dynamics*. Harvard University Press.
- Ohtsuki, H., Hauert, C., Lieberman, E., and Nowak, M. A. (2006). A simple rule for the evolution of cooperation on graphs and social networks. *Nature*, 441(7092):502–505.
- Rousset, F. (2004). *Genetic Structure and Selection in Subdivided Populations*, volume 40. Princeton University Press.
- Taylor, P. D., Day, T., and Wild, G. (2007a). Evolution of cooperation in a finite homogeneous graph. *Nature*, 447(7143):469–472.
- Taylor, P. D., Day, T., and Wild, G. (2007b). From inclusive fitness to fixation probability in homogeneous structured populations. *Journal of Theoretical Biology*, 249(1):101–110.