

Research interests

Onofrio Mazzarisi

Max Planck Institute for Mathematics in the Sciences, Leipzig, Germany

I have a background in theoretical physics and my PhD work focused on out of equilibrium problems in statistical mechanics. My current research interests lay in evolutionary theory and revolve mostly around the concept of fitness. Examples are the investigation of the dynamics on complex fitness landscapes or the search of possibly universal properties of fitness distributions within populations. A better understanding of these issues can bring insights to the quest of predicting the outcomes of evolutionary processes. I am, more broadly, interested in finding and working on problems in evolution, ecology and econophysics which can be profitably addressed by methods from statistical mechanics, stochastic analysis and large deviation theory.