

```
In[38]:= rawfig2a = Import[NotebookDirectory[] <> "fig2a_data.csv", "CSV"];
```

Equilibrium calculation

```
In[39]:= A[u_, α_, γ_] := 
$$\frac{\frac{u}{(1-u)} + 1 - \gamma}{\alpha \gamma};$$

```

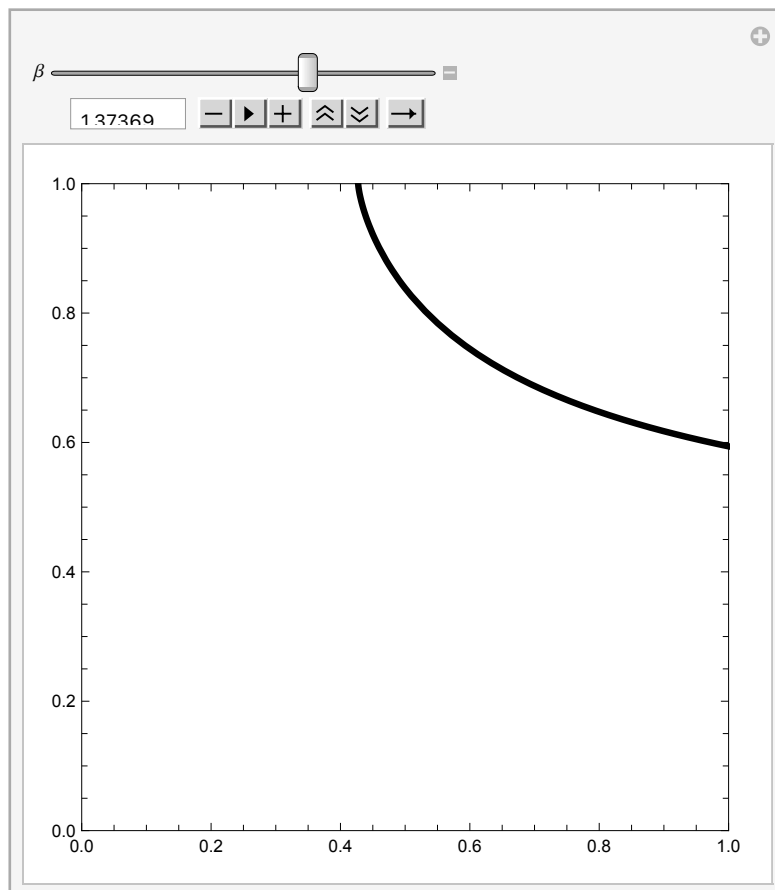
```
equilibrium[r_, β_, u_, α_, γ_] := 
$$\frac{1}{\left(\frac{r+1}{A[u, \alpha, \gamma] (r-1) + r} - 1\right)^{1/\beta} + 1};$$

```

```
In[98]:= q2 = 3; q1 = 2; β = .; u = 0.1; α = 0.8;
```

```
Manipulate[eq2a = Plot[equilibrium[q2 / q1, β, u, α, γ], {γ, 0, 1},  
  PlotRange → {{0, 1}, {0, 1}}, PlotStyle → Directive[Black, Thickness[0.01]],  
  Frame → True, AspectRatio → 1], {β, 0.001, 2}]
```

Out[99]=



In[102]:=

```
eq2a = Plot[equilibrium[q2 / q1, 2, u, α, γ], {γ, 0, 1}, PlotRange → {{0, 1}, {0, 1}},  
  PlotStyle → Directive[Black, Thickness[0.01]], Frame → True, AspectRatio → 1];
```

Fig2a

```
In[83]:= rawfig2a = Import[NotebookDirectory[] <> "fig2a_data.csv", "CSV"];
```

```

In[84]:= heat2a = ListDensityPlot[rawfig2a[[2 ;;]], PlotRange → All,
  PlotLegends → Placed[BarLegend[Automatic, LegendMargins → {{0, 0}, {10, 5}},
    LegendLabel → "Equilibrium frequency of low-quality morph",
    LabelStyle → {FontFamily → "Calibri"}], Above], Frame → True,
  FrameStyle → Directive[Black, Thickness[0.003]], FrameLabel →
    {Style["Probability of copying,  $\gamma$ ", FontFamily → "Calibri", 18], Style[
      "Initial frequency of low-quality morph", FontFamily → "Calibri", 18]}}];

In[101]:= Show[heat2a, eq2a]

```

Out[101]=

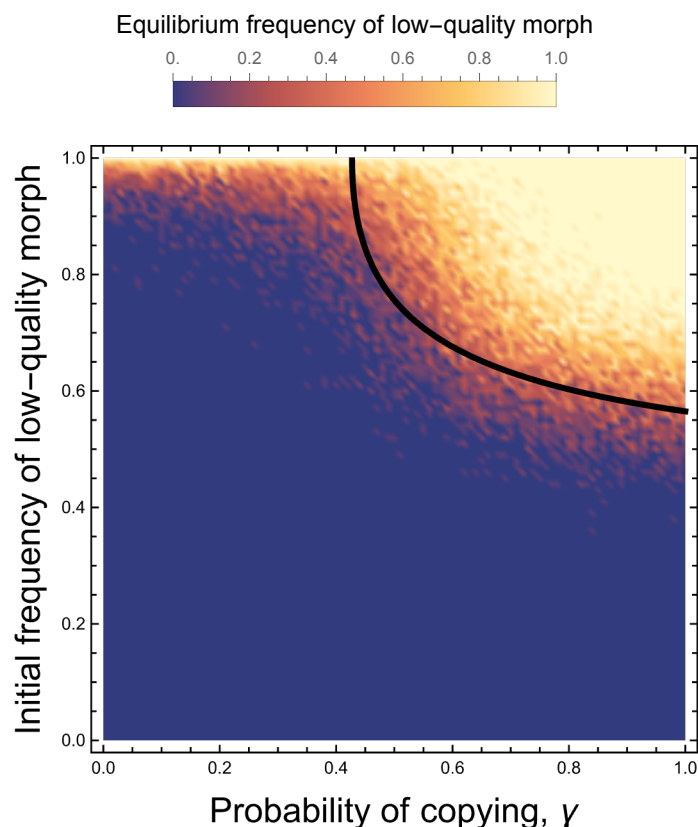


Fig2b

```

In[86]:= rawfig2b = Import[NotebookDirectory[] <> "fig2b_data.csv", "CSV"];

In[87]:= heat2b = ListDensityPlot[rawfig2b[[2 ;;]],
  PlotRange → All, PlotLegends → Placed[BarLegend[Automatic,
    LegendMargins → {{0, 0}, {10, 5}}, LegendLabel → "Normalised fixation time",
    LabelStyle → {FontFamily → "Calibri"}], Above], Frame → True,
  FrameStyle → Directive[Black, Thickness[0.003]], FrameLabel →
    {Style["Probability of copying,  $\gamma$ ", FontFamily → "Calibri", 18], Style[
      "Initial frequency of low-quality morph", FontFamily → "Calibri", 18]}}];

```

```
In[88]:= Show[heat2b, eq2a]
```

```
Out[88]=
```

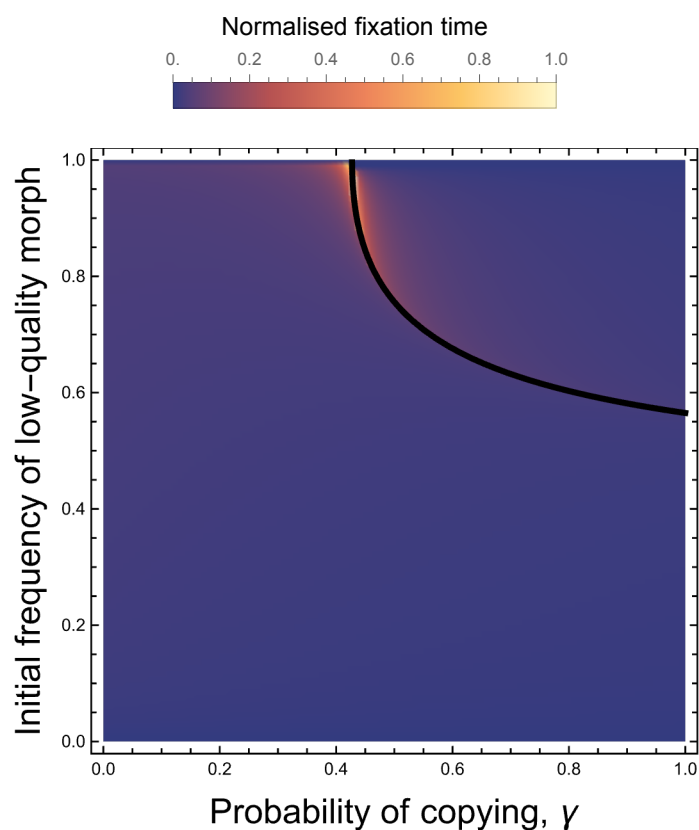


Fig 2c

```
In[89]:= rawfig2c = Import[NotebookDirectory[] <> "fig2c_data.csv", "CSV"];
```

```
In[90]:= heat2c = ListDensityPlot[rawfig2c[[2 ;;]], PlotRange → All,
  PlotLegends → Placed[BarLegend[Automatic, LegendMargins → {{0, 0}, {10, 5}},
    LegendLabel → "Absolute difference in modified qualities",
    LabelStyle → {FontFamily → "Calibri"}], Above], Frame → True,
  FrameStyle → Directive[Black, Thickness[0.003]], FrameLabel →
    {Style["Probability of copying,  $\gamma$ ", FontFamily → "Calibri", 18], Style[
      "Initial frequency of low-quality morph", FontFamily → "Calibri", 18]};
```

```
In[91]:= Show[heat2c, eq2a]
```

```
Out[91]=
```

