$$p_i = \frac{J}{\Delta X_{\bar{i}} Z_C^{\star} - \Delta X_{\bar{i}} Z_{\bar{i}}^{\star}}$$

$$U_i(C) - U_i(NC) = p_{\bar{i}} \left(\Delta X_i Z_C^{\star} - \Delta X_i Z_i^{\star} \right) - J$$

$$p_i = \frac{1}{1 + \exp\left(-\beta_{DC} \cdot \left(\frac{\Delta X_i Z_C^{\star} - \Delta X_i Z_i^{\star}}{1 + \exp\left(-\beta_{DC} (p_i \cdot (\Delta X_{\bar{i}} Z_C^{\star} - \Delta X_{\bar{i}} Z_{\bar{i}}^{\star}) - J) \right) - J \right) \right)}$$

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