Efficient Unemployment and Unemployment Gap

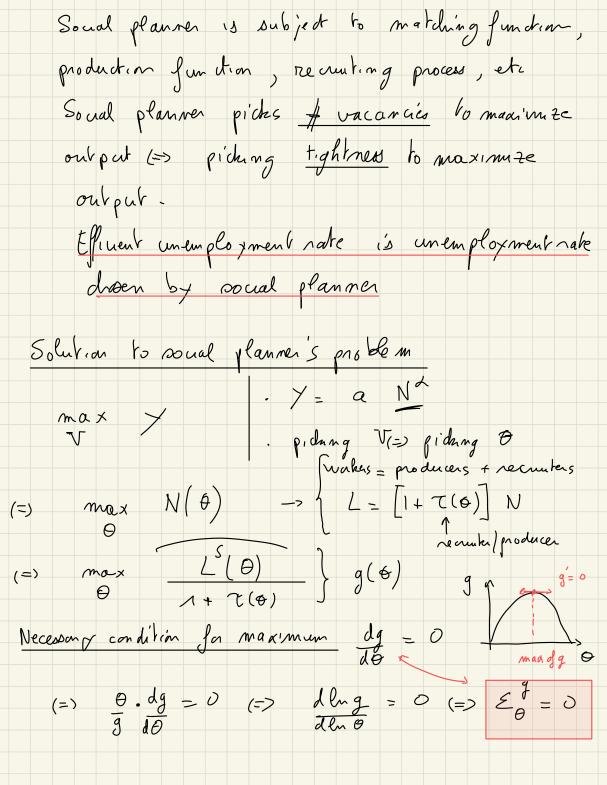
Pascal Michaillat https://pascalmichaillat.org/c1/

CBO: matural nate of unem playment Taking a trend of unemployment rate + adjustments Premise on average, labor market is efficient Problem No guarante that labor market & efficient on average , in matching model, mo reason to believe that labor montret is efficient. Phillips - come aproach accelerationist Phillips come (Friedman). target unemployment rate such that inflation remains constant Problem care about other things than beeping · complète désonnect between inflation l'unemployment Efficient unemployment nate in matching model Efficient maamzes soual weffare. Social welfaro: sum of welfare of all individuals

ut.lity

Apoumption Colob-Douglas marching function

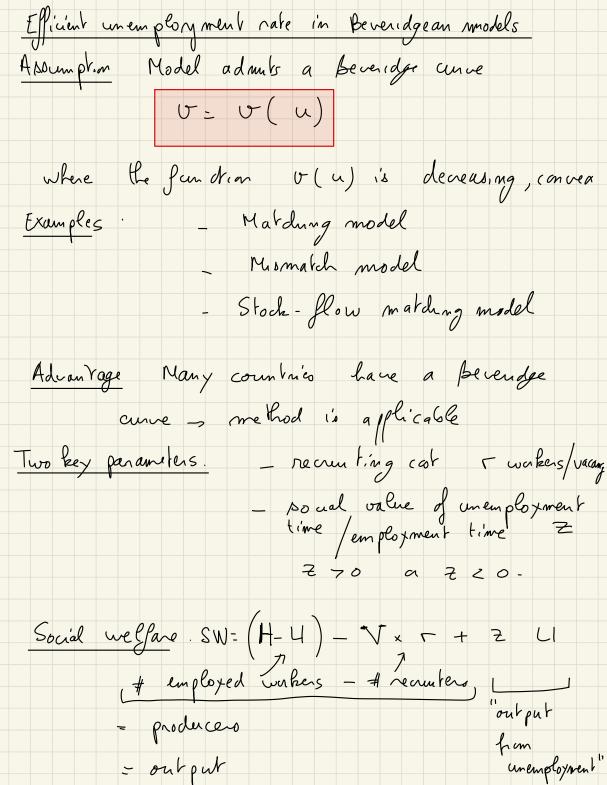
Asomptions to simplify soud welfore . Linear utility Jundian over con sumption (risk neutral) -> all i'v dior duals value consumption the same -> can compute aggregate utility from consumption by aggregating consumption - output-· Dioutility from wak = dioutility from searching so a job - value of time is the same for employed I men ployed waken , value of rime is not relevant for welfare. => soud velfae is determined polely by aggregate consumption: aggregate output. Definition efficient unemployment nate is the unem-- plongment nate that maximuzes output -Social planner. V government that can allocate workers between unemployment, producing, & reauting in order to maximuze welfare = output

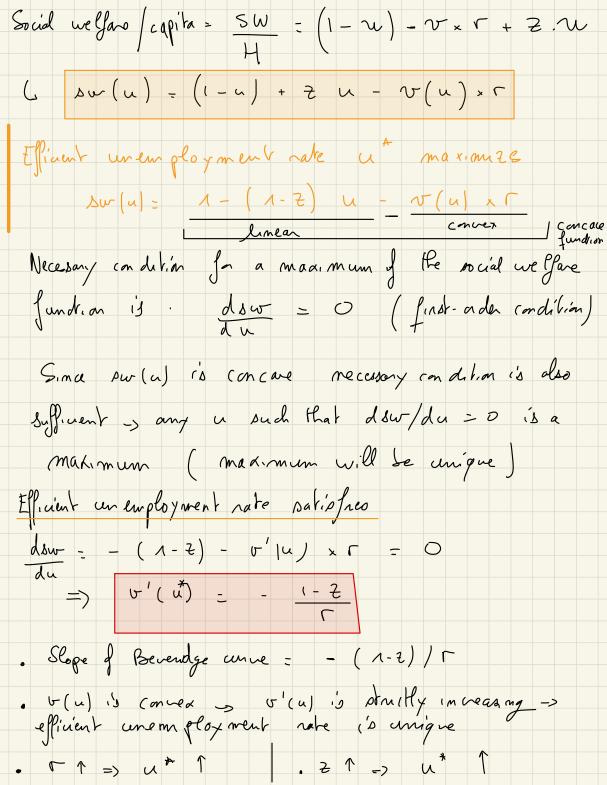


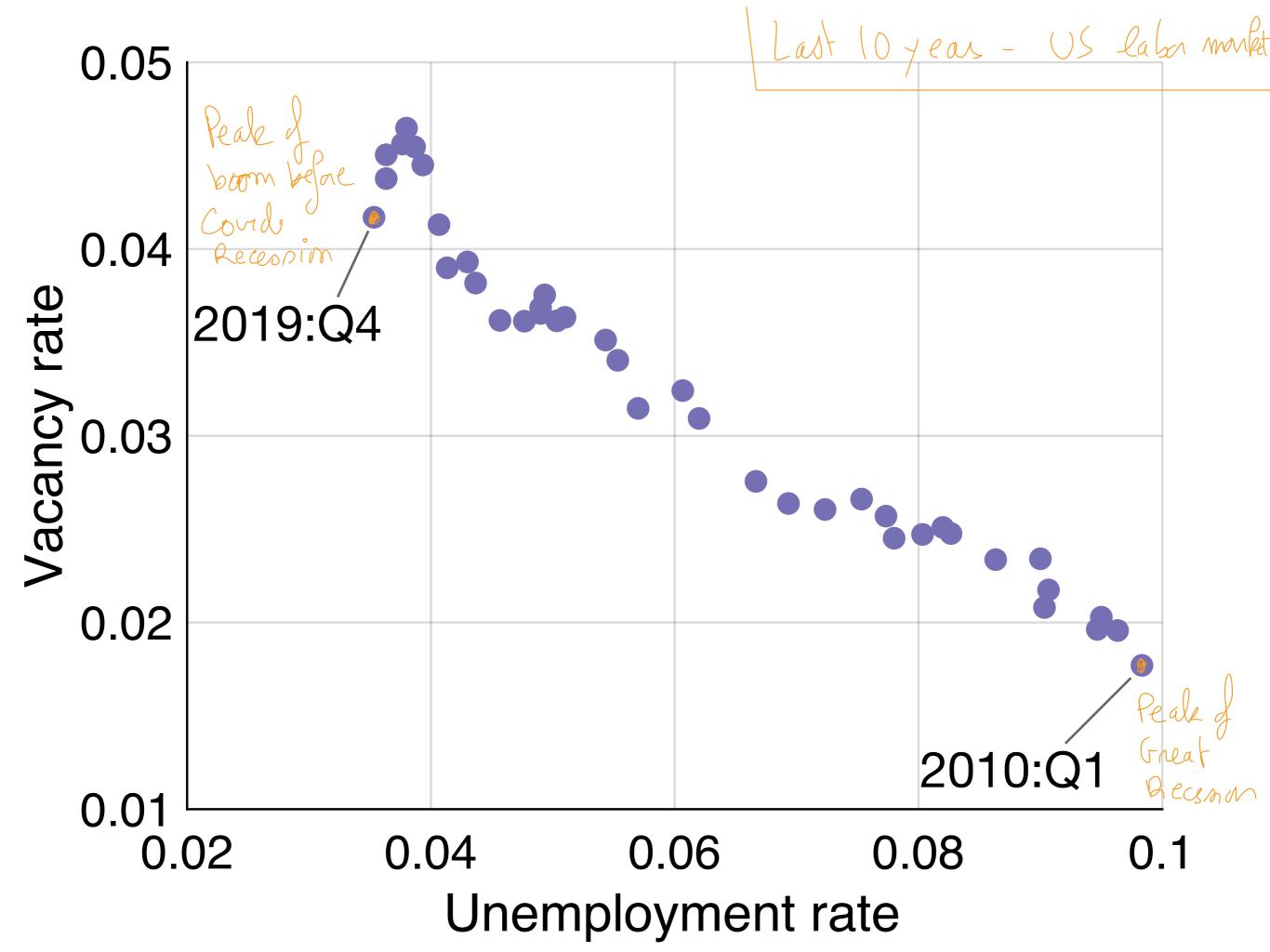
In practice labor market is efficient when U=1e de of thumb.

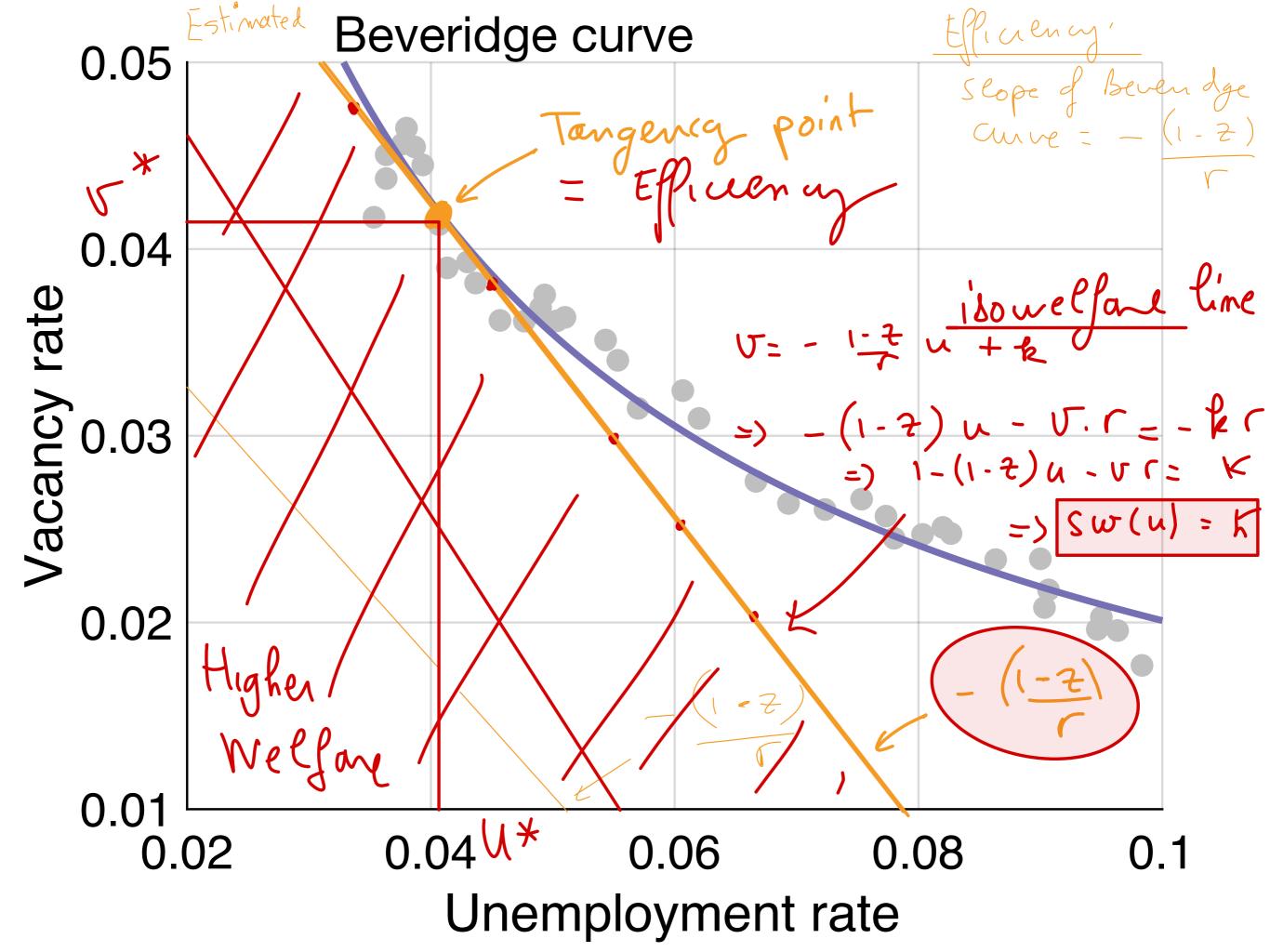
un employed workers = # recurrers

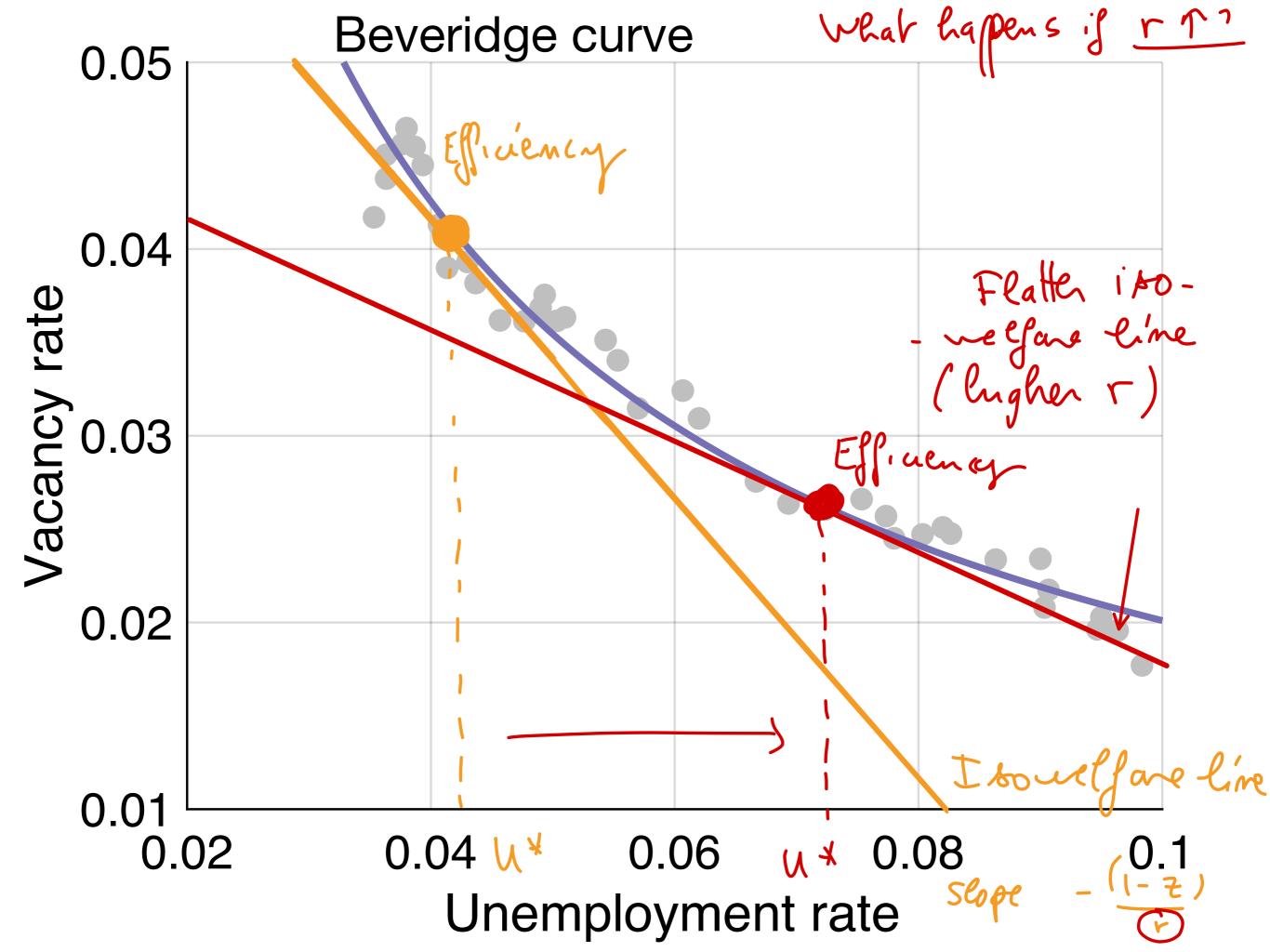
idle & non-productive Grophical representation of efficient unemployment nate wakers "slach labor marfet" producers produces hearters unemployed too much unemployment In real world wage fundion may not guarantee that O = 0 h > finms may not have the incentive to post of dicaracies ouch Hab O = O and U = U and so on -> government intervention may be needed to bring labor market closes to efficiency.

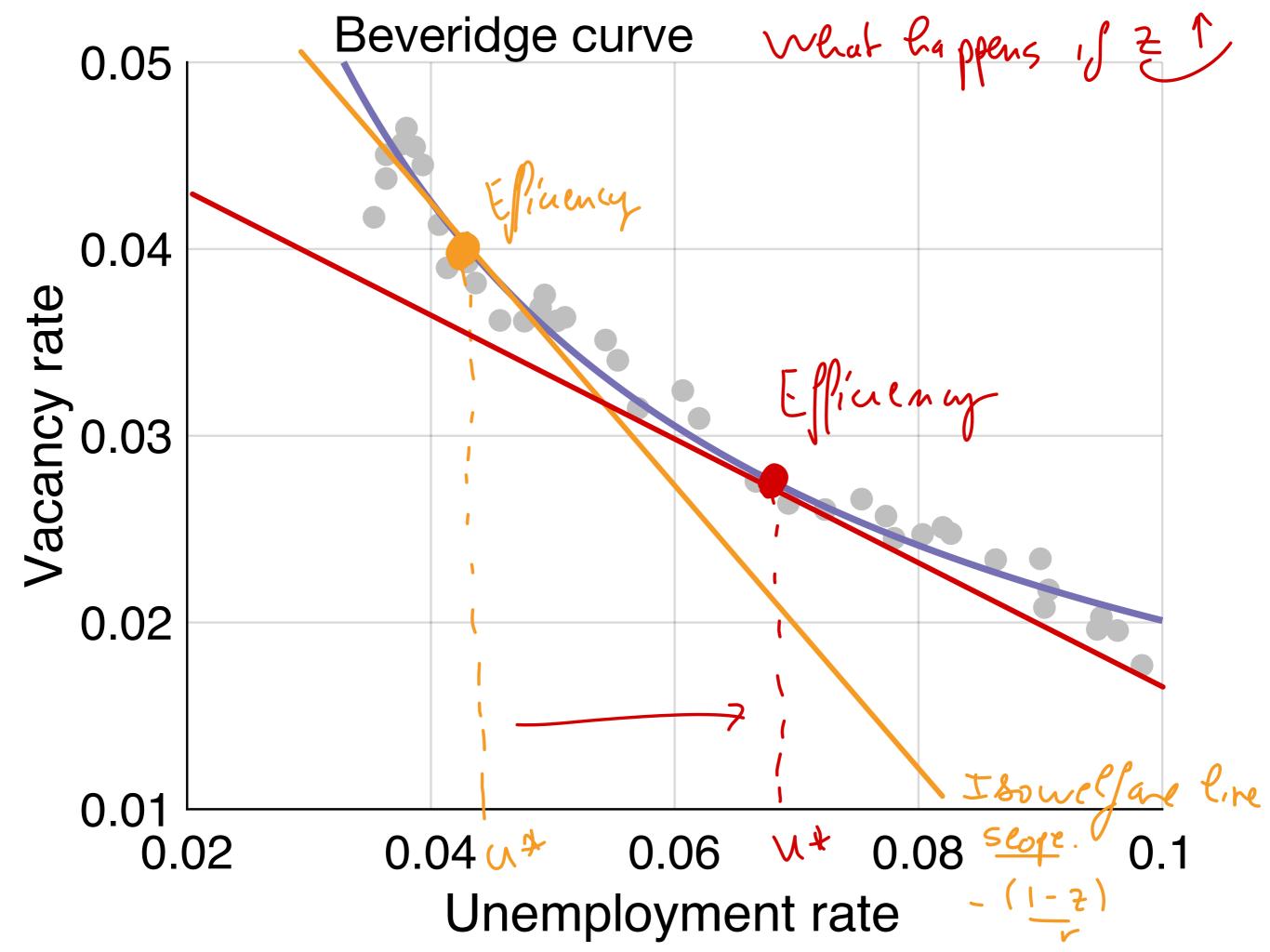


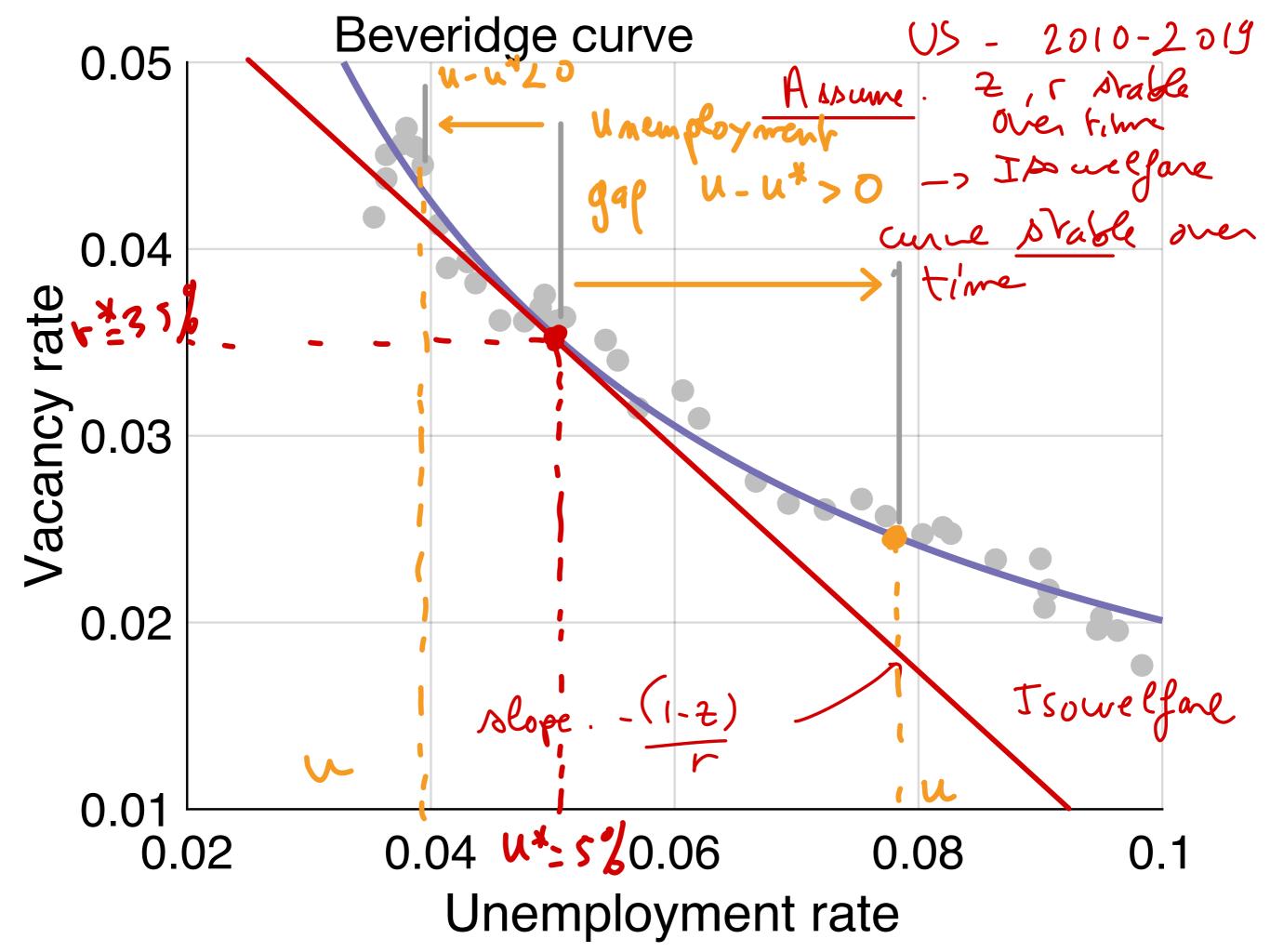












Famula for he efficient labor market tightness Cordition for labor market efficiency. (5'(") = - 1-2 Tightness 0 = U/u Bevendge electicity $\Sigma = \frac{d \ln v}{d \ln u}$ $\mathcal{E} = -\frac{u}{\nabla} \cdot \frac{dv}{du} = -\frac{v'(u)}{\theta}$ Efficiency (andition) - Out (u) = 1-2

Efficiency (andition)

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Efficiency (andition) 2 by factors · 2 value of un employment . I recounting col $\vdash \uparrow = \rangle \quad \phi^* \downarrow \quad , \quad \psi^* \uparrow$ - E elasticity of Bever dge cure $\mathcal{E} \cap = \mathcal{O} \setminus \mathcal{O}, \quad \mathcal{U} \cap \mathcal{O}$

Application to US labor market . 25% of labor costs decoted to recruiting (US)
1997)
(s 25% of wakers are recruiters T = 0.7 . 13% - 35% of lat earnings (x, labor productivity) replaced by leibone I have production 13% (2 (35% -> 2 ~ 1/4 e = dho denn Alope of curve. Inv versus ln u. Coefficient in regression.

