

Breakdowns of conditions for malevolence to cause an AGI-related long-term catastrophe

Jim Buhler, January 2023

Follow-up on the sections *How malevolent control over AGI may trigger long-term catastrophes?* and *Breaking down the necessary conditions for some ill-intentioned actor(s) to cause an AGI-related long-term catastrophe* in [this EA Forum post](#).

Direct risks from malevolence

Reminder from [my stem piece](#):

- Say, for simplicity, that we're concerned about the risk of some AGI ending up with **X-risk-conductive preferences (XCPs)**¹ due to the influence of some *malevolent actor* (i.e., some human(-like) agent with traits particularly conducive to harm being done).
- **Quasi-XCPs** = preferences that are malevolent-ish but can't lead to a long-term catastrophe by themselves.

Introduction of key actors:

- **AliceLab** = the #1 (a priori non-malevolent) AI lab that is close to being able to deploy Alice, humanity's potential first AGI.
- **RedQueenLab** = the potential malevolent AI lab (or just some malevolent nerd in their bedroom) that is close to being able to deploy the Red Queen, an AGI with **(quasi-)X-risk-conductive preferences** or **(quasi-)XCPs** for short.

The breakdown of necessary conditions/steps:

- Humanity develops AGI **and...**
- **...Either**
 - An actor with XCPs (XCPer from now on) aligns some AGI with their values **or...**
 - XCPer runs RedQueenLab in a world where it ends up deploying the Red Queen which doesn't immediately get overpowered by some other AGI, **or...**
 - Because RedQueenLab has somehow got access to some decisive inputs from AliceLab **or...**
 - Because AliceLab got breached by some criminal from whom RedQueenLab got the info (it was released publicly or they bought it from the criminal) **or...**
 - **...Because** RedQueenLab's people – themselves – stole

¹ By XCP, I mean something like *intrinsically valuing punishment/conflict/destruction/death/harm*. I wouldn't include things like *valuing paperclips*, although this is also conducive to existential catastrophes less directly.

- information from AliceLab (espionage, infiltration, hacking, corruption, ...).
- ...RedQueenLab has been a serious contender in the AGI race all along and achieved its goal without resorting to any crime-related activity.
- ...XCPer somehow gets control over Alice and gives her XCPs
 - Because they've got privileged authorized control or...
 - Decisive employee at AliceLab or...
 - ...In some political institution that has significant coercive power over AliceLab.
 - ...Because they've got unauthorized control over Alice (external attack corrupting Alice in a no-come-back way).
- ...The conjunction of
 - An agent with quasi-XCPs (quasi-XCPer from now on) attempts to align some AGI with their values and...
 - ...
 - ...Either
 - Some form of [CEV](#) resulting in XCPs or...
 - ...Some weird AI misalignment resulting in XCPs or...
 - ...quasi-XCPer doesn't really attempt actual alignment; they just launch a sign-flip attack on Alice or want the Red Queen to be an "anti-Alice", and this results in XCPs (this requires that (original) Alice has scope-sensitive welfarist-ish values).

Risk factor for AGI conflict

See [this section](#) in my stem piece for more context.

The breakdown of conditions for this could be basically the same as [above](#), except that *XCPs* and *quasi-XCPs* should respectively be replaced by *strong CSPs* and *weak CSPs*.