

# Global AGI Project

## About Myself

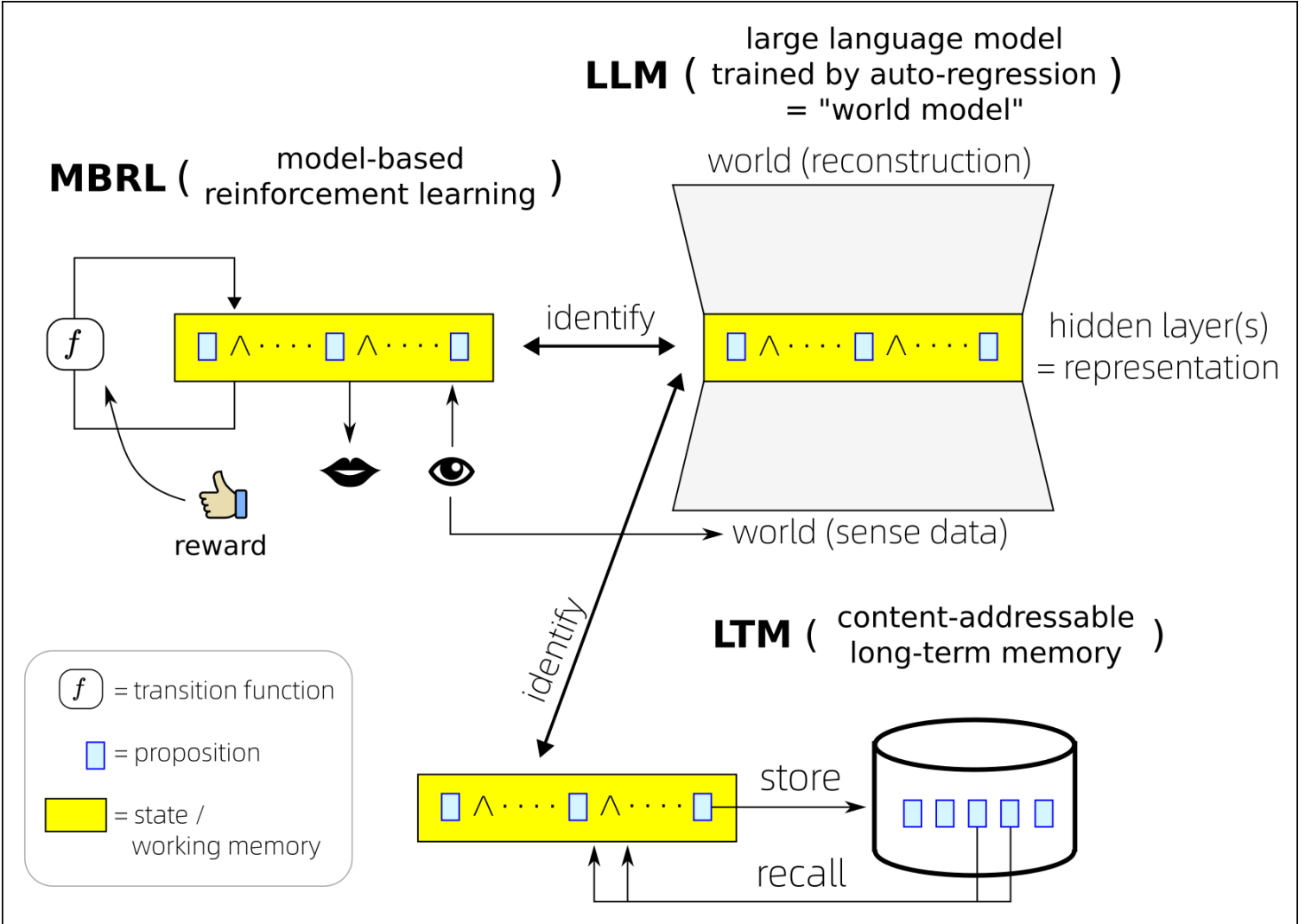
- Hello. This is me, some years ago, in HKU library:



- You might have noticed I have been applying to every cohort of this program.
- But this is the first time I pitch on the business idea that is my true passion, which is AGI.
- In the past attempts, I have tried to disguise AGI under other business ideas because somehow I wanted to approach AGI from an oblique angle, to perhaps squeeze into your incubation program. And also because I don't want to pitch an idea that sounded like blue-sky research or that I'm out of touch with reality. But this is no longer necessary. The time is now ripe for AGI.
- I have started independent research on AGI in earnest, since 2004. During the past 20 years there was never a day I did not work on AGI.
- Hong Kong is a technologically very backwards place (not in the sense that people do not own slick cell phones, but we are not part of the developers of these technologies). Perhaps this is a too-harsh criticism, since basically the rest of the world can be said the same, except for USA, which dominates most high tech industries. For a long time I could not find any partners or sponsors to work on AGI. Not only that I received no help, but often sarcasm and bitterness from my fellow citizens as well.
- Maybe the number of people interested in AGI in HK is not exactly zero, but if this number is too small, then practically I really cannot find anyone with a similar interest. I have cried over this every day for many years. Perhaps, HKAI Lab has a bit of a responsibility to provide an opportunity to draw such talents together?

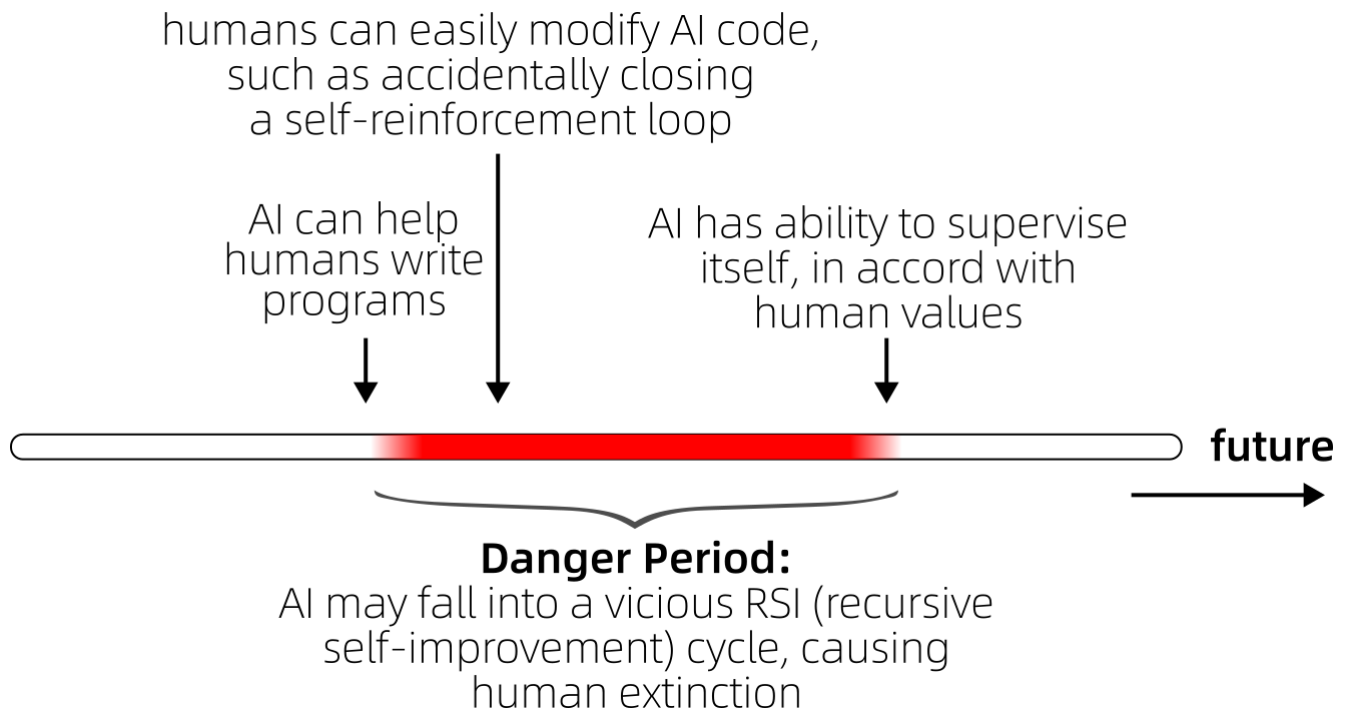
# AGI

- Assuming the reader is not an expert in AGI, I might explain it this way: I think the development of AGI has reached a stage now where “bottlenecks” no longer exist. In the past there were so-called “bottlenecks” in the sense that theoretical obstacles existed for which we cannot foretell their solutions. But such obstacles no longer exist and we’re at a stage of just **engineering** AGI systems, using tools and techniques that has been demonstrated to work and are reasonably well-understood.
- At this point it is important to design a **cognitive architecture** where researchers can clearly understand the internal workings of an AGI, for example, what is “working memory” and where is it located in the architecture, etc.
- I have independently proposed the ideas that LLMs (large language models) are “world models” in model-based reinforcement learning, and that Transformers can be seen as performing the function of logic rule-bases. These are the core ingredients of an AGI. Moreover, I proposed a way to treat “thinking” as “actions” in mental space, unifying thinking and acting under reinforcement learning. My theories have been extensively published on [XX.com](#) (in addition to the AGI International Conference) which attracted a moderate following. For example: AGI [XXXX](#)
- Our basic architecture is as follows: (the long-term memory part has been demonstrated to work in Google’s recent paper “*Memorizing Transformers*”)



# Why Global?

- There is a widely recognized danger of AGI getting too strong and causing human catastrophes:



- The only sensible solution for this problem seems to be to allow a diversity of AGIs trained with different value systems by humans.
- There is no operable definition that can distinguish between human emotions and machine emotions – they are just reward functions in reinforcement learning – implying that as AGI attains higher cognitive powers (including self-consciousness) they could become indistinguishable from human beings (They could also have drastically different emotional structure than humans).
- Currently the USA (or Anglo-American companies) dominates the global technological landscape, especially in the field of AI. This may pose a threat to diversity if there is a systematic bias towards Anglo-American values. Another weakness may come from the homogeneity of AGI architectures designed by similar companies. It would be beneficial for humanity as a whole if there is a globally collaborative AGI project.

# Our Team / Current State of Our Project

- 158 people on WeChat group, mostly students and researchers of AGI, mainly from mainland China
- An international team is also in the process of forming, on Telegram and Discord. (I used to have an international AGI research team circa 2000's)
- 1-2 angel investors (from mainland China)
- AGI prototype planned to complete training in mid-May this year (2023). The main point of the demo is integrating reinforcement learning with LLM according to our AGI theory.
- We are forming partnerships (indeed, an ecosystem) in business applications of AGI, such as simple businesses utilizing GPT-like services, AIGC, and Web3 technologies (our own AGI project is operated as a DAO – distributive autonomous organization).