



# Some Personal Suggestions on Doing Research

---

**Zhanke Zhou**

**2024 / 03 / 27**



# Biography

Biography

Why research

How research

Suggestions

bachelor

phd

- **Research Career**

- 2018.3 – 2021.1 Member @Dian Group
  - supervised by Dr.Yayu Gao and Dr. Xiaojun Hei
- 2021.1 - present Research Intern @LARS Group
  - supervised by Dr. Quanming Yao and Dr.Yongqi Zhang
- 2022.2 - present RA/PhD @TMLR Group
  - supervised by Dr. Bo Han

- **Research Interest**

- Trustworthy Machine Reasoning for Scientific Discoveries

- **Personal Homepage: <https://andrewzhou924.github.io/>**



# Why research?

- Your motivation matters: **Make a thing works**

Biography

Why research

How research

Suggestions



0

|

100

→ Research  
create new knowledge

→ Engineering  
improve and apply





# Why research?

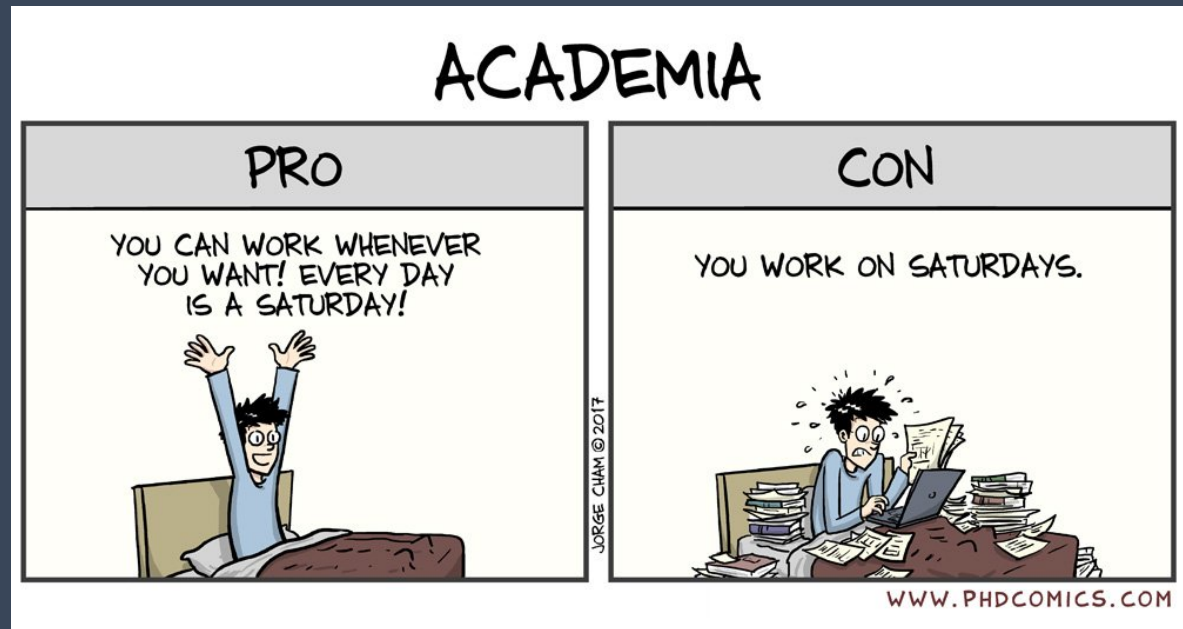
Research is with great **uncertainty** (that is, the cost)

Biography

Why research

How research

Suggestions



**Why I choose to do research?**  
*a title? a PhD diploma? a kind of life!*



# How research?

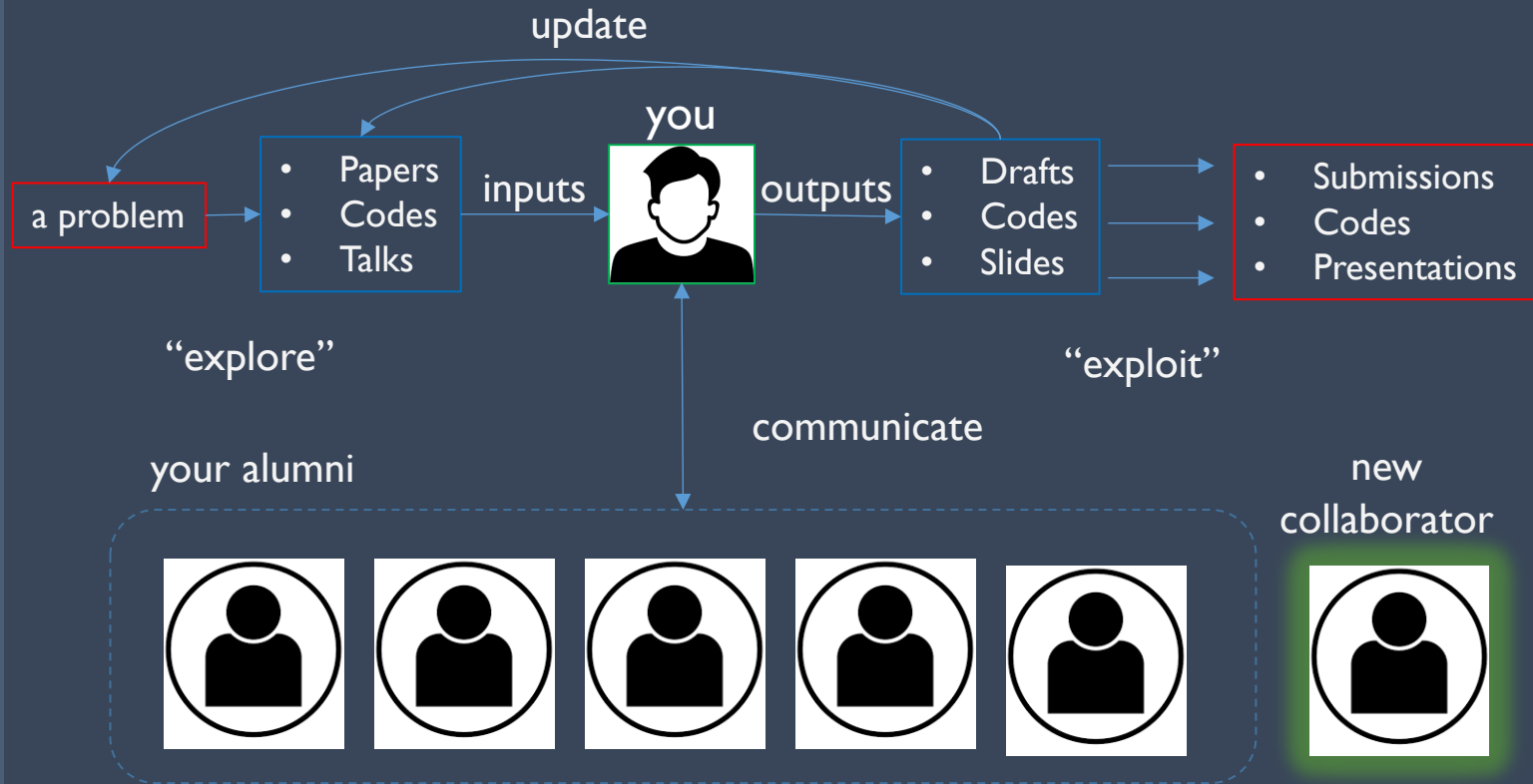
## My Working Flow:

Biography

Why research

How research

Suggestions



**Output, get feedback, and update**



# ● ● How research?

- My research life
  - doing research (70%)
  - take courses & teaching assistant (15%)
  - sports and travel (10%)
  - other stuff in my lab (5%)

Biography

Why research

How research

Suggestions

*Everyday can be a Saturday  
But, we work on Saturday...*



# ● How research?

- My research life | “work hard”

Biography

Why research

How research

Suggestions







# ● How research?

- My research life | “play hard”

Biography

Why research

How research

Suggestions





# Suggestions

In addition to Strong Self Motivation,  
The three (most) important things are:

- **Novelty**

- know **what problem** to solve
- know **which direction** to delve into

- **Depth**

- read & think & do in **depth and hardcore**
- if it doesn't **challenge** you, it won't **change** you

- **Delivery**

- share your discovery with other researchers
- e.g. Group Meetings / Offline Conference / Online seminars / ... (international-wise)

Biography

Why research

How research

Suggestions



# Suggestions

Biography

Why research

How research

Suggestions

- Ask yourself: which kind of thing you want to do?
- **If you want to do research, just try now**
  - try to read a paper written in English
  - try to analyze and improve an existing method
  - try to summarize you findings and share
  - ...
  - “learning by doing” (干中学)

# Q & A

Email: [cszkzhou@comp.hkbu.edu.hk](mailto:cszkzhou@comp.hkbu.edu.hk)