When You Follow Your Heart

You Cease Having Regrets

Yao Zhang

University of Chinese Academy of Sciences

National Astronomical Observatories, Chinese Academy of Sciences

https://zhims.github.io

February 5, 2021





Overview

- Our Academic Family
- 2 How to Read a Scientific Paper
- 3 How to Build a Fine Life
- 4 How to Take Notes
- 6 How to Code
- 6 Are Books Still Important?



Section I

Our Academic Family



Our Academic Family



Figure 1: Our Academic Family



Section II

How to Read a Scientific Paper?



How to Read a Scientific Paper?

In my personal opinion:

- What are the basic assumptions of the model mentioned in the paper?
- How to check scientific assumptions of the model mentioned in the paper?
- How to generalize from finite to infinity?
- Omputation and Proof again and again.
- **5** ...

 $There is a recommended paper: \ https://web.stanford.edu/class/cs244/papers/HowtoReadPaper.pdf.$



Section III

How to Build a Fine Life?





How to Build a Fine Life

- Stop keeping score.
- 2 Find the place you love.
- On't isolate yourself.
- Sedentary pandemic life is bad for our happiness.
- **6** . . .

There is a recommended website: https://www.theatlantic.com/projects/how-build-life/.



8/15

Section IV

How to Take Notes?



How to Take Notes?

```
MTFX: https://tug.org/texlive/
```

TeXstudio: https://www.texstudio.org/

Overleaf: https://www.overleaf.com/

MathType



Section V

How to Code?





How to Take code?

Matlab

- 2 Python
 - Opening PyTorch
 - Pillow
 - Anaconda

Oebug and Code





February 5, 2021

Section VI

Are Books Still Important?



Are Books Still Important?

Yes!

There are some recommended books:

Deep Learning Architectures:

https://www.springer.com/gp/book/9783030367206.

Understanding Machine Learning: From Theory to Algorithms:

 $\verb|https://www.cs.huji.ac.il/~shais/UnderstandingMachineLearning/.\\$

Matrix Computation (in Chinese):

https://item.jd.com/13016640.html.

High-Dimensional Data Analysis with Low-Dimensional Models: Principles, Computation, and Applications.

https://book-wright-ma.github.io/Book-WM-20201206.pdf.

⑤ ...



Thank you!

Any comments or questions?

Welcome to visit my personal homepage: https://zhims.github.io/



