

# **How should we face this new era**

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# Outline

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1. About Me

2. About Biomedical Engineering

3. About AI

4. About You

## About Me

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# About Me

- 戴偉璿
- Graduated from YLSH at 112 (YLSH student id: **910466**)
- Biomedical Engineering, National Taiwan University
- CTBC brothers, Philadelphia Phillies, Manchester City
- Brawl Stars, Core Keeper, Rim World
- Old songs

## What I'm skilled at

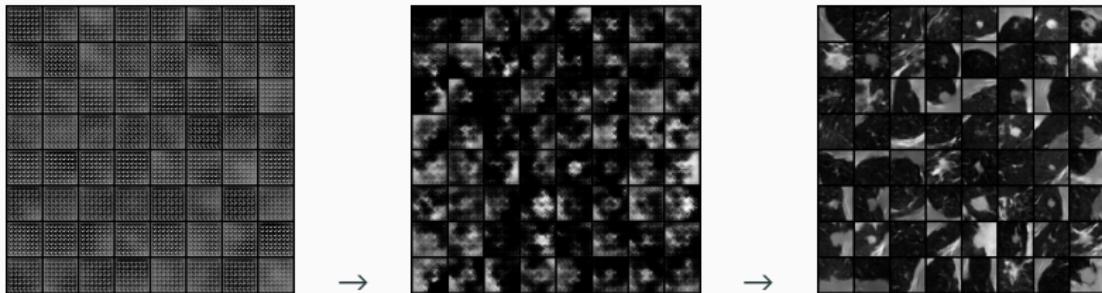
- C++ programming
- Datastructures and Algorithms
- Machine Learning and Deep Learning
- Linear Algebra and Statistics

## About Biomedical Engineering

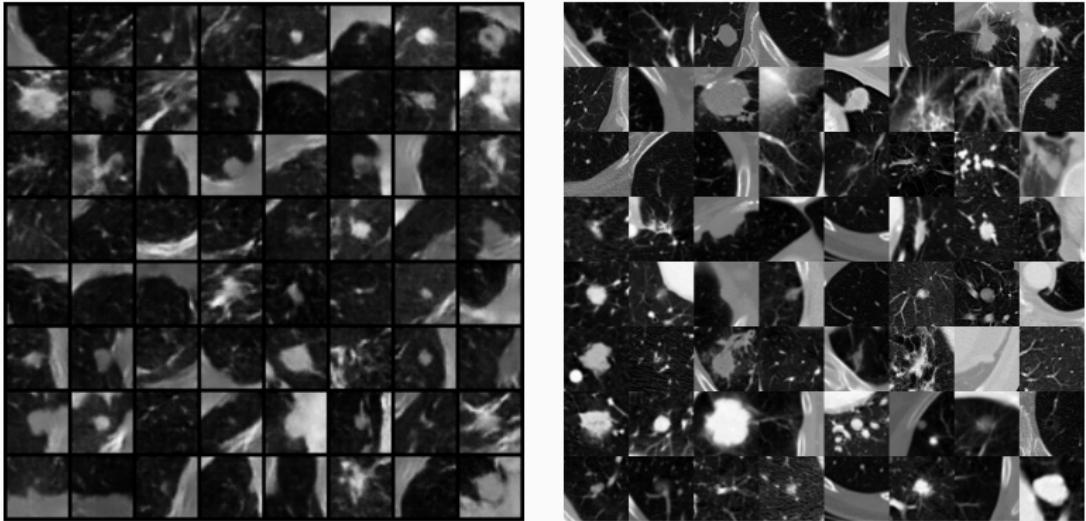
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# What I'm doing now?

Employing deep learning methods to generate synthetic CT images.



**Figure 1:** CT image generation results across training epochs.

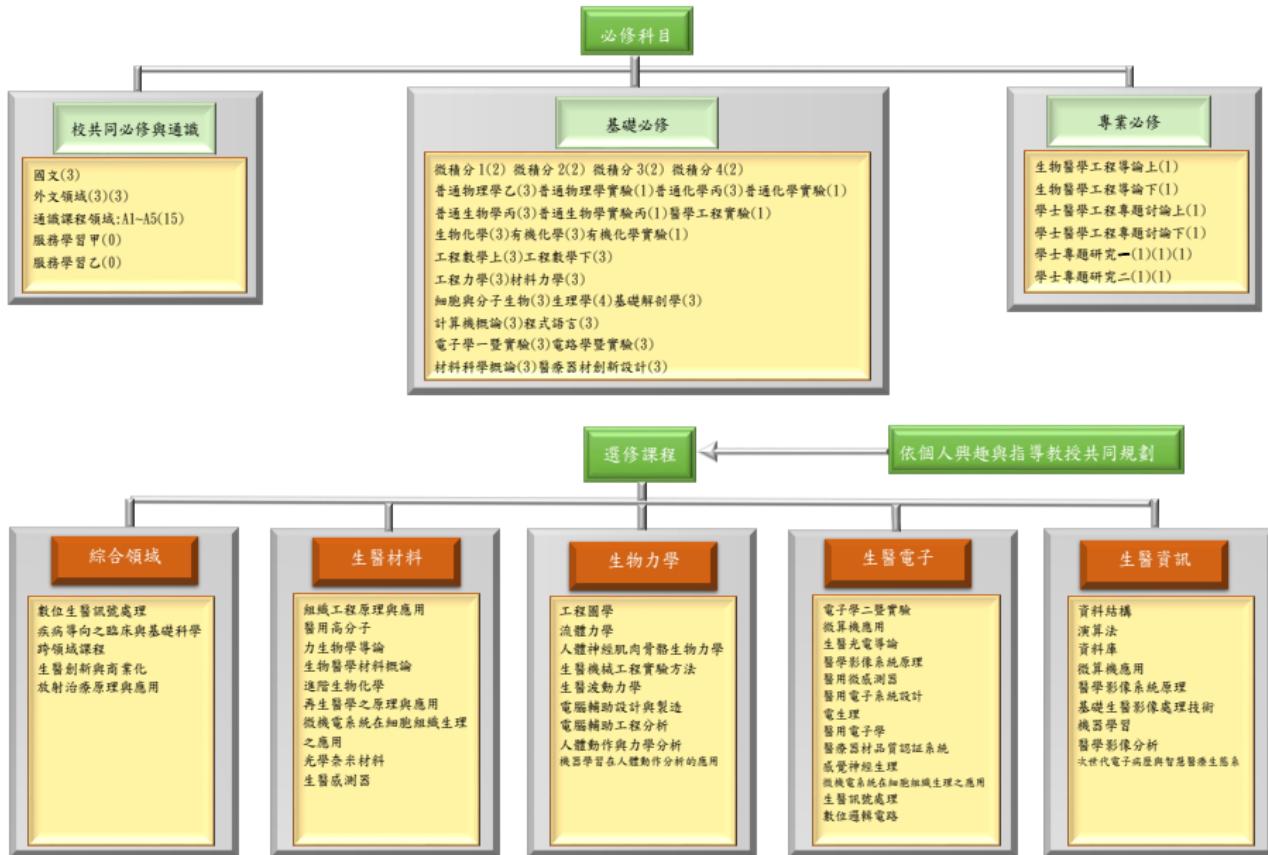


**Figure 2:** Generated CT image (left) vs. Real CT image (right).

# Brief Intro to Biomedical Engineering

- Utilizing engineering principles to solve medical problems.
- Four main areas:
  - 生醫材料
  - 生物力學
  - 生醫電子
  - 生醫資訊
- Learning basic medicine, biology, chemistry, physics, and engineering at Grade 1 and 2.
- Specializing in one of the four areas at Grade 3 and 4.

應修最低畢業 130 學分=校共同必修與通識 24 學分+系訂必修 77 學分+系訂選修 29 學分



## About AI

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## About You

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