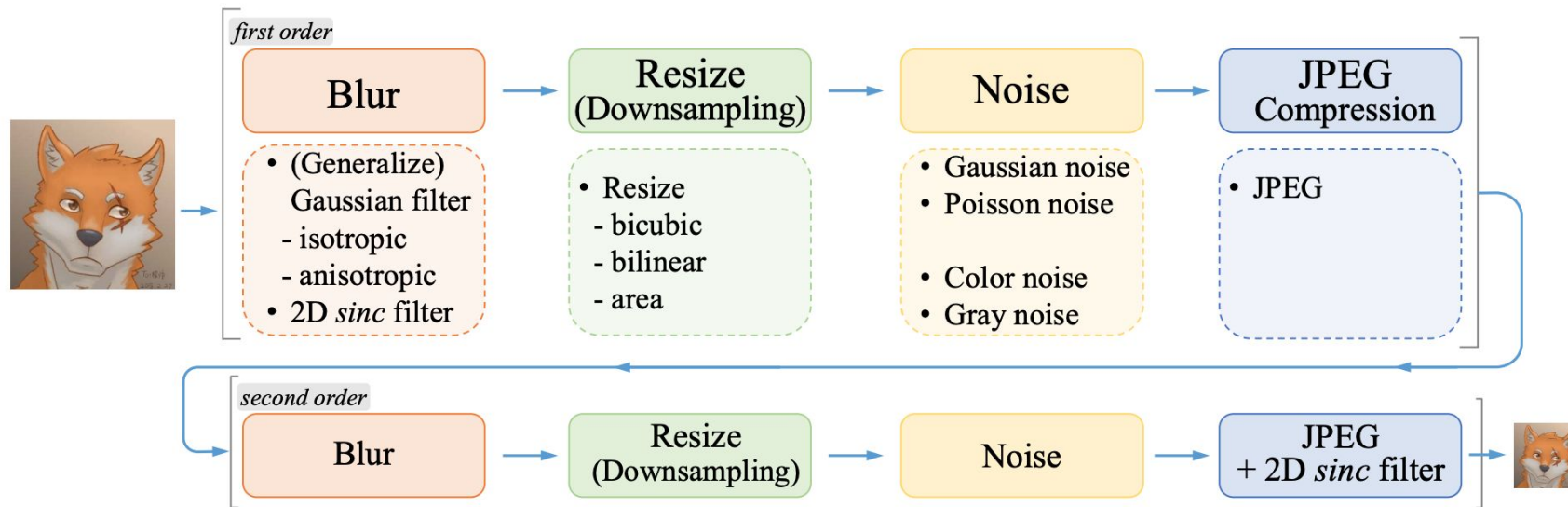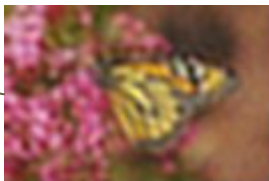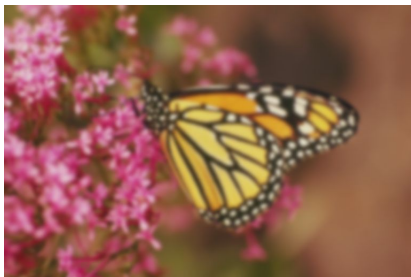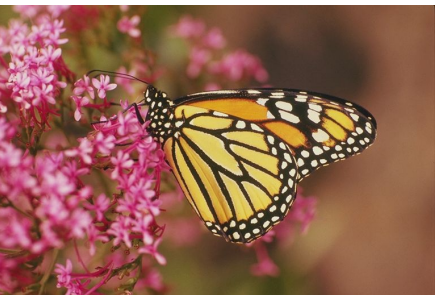# Real-ESRGAN

指導者：莊永裕教授
學生：資工三 葉乃瑄
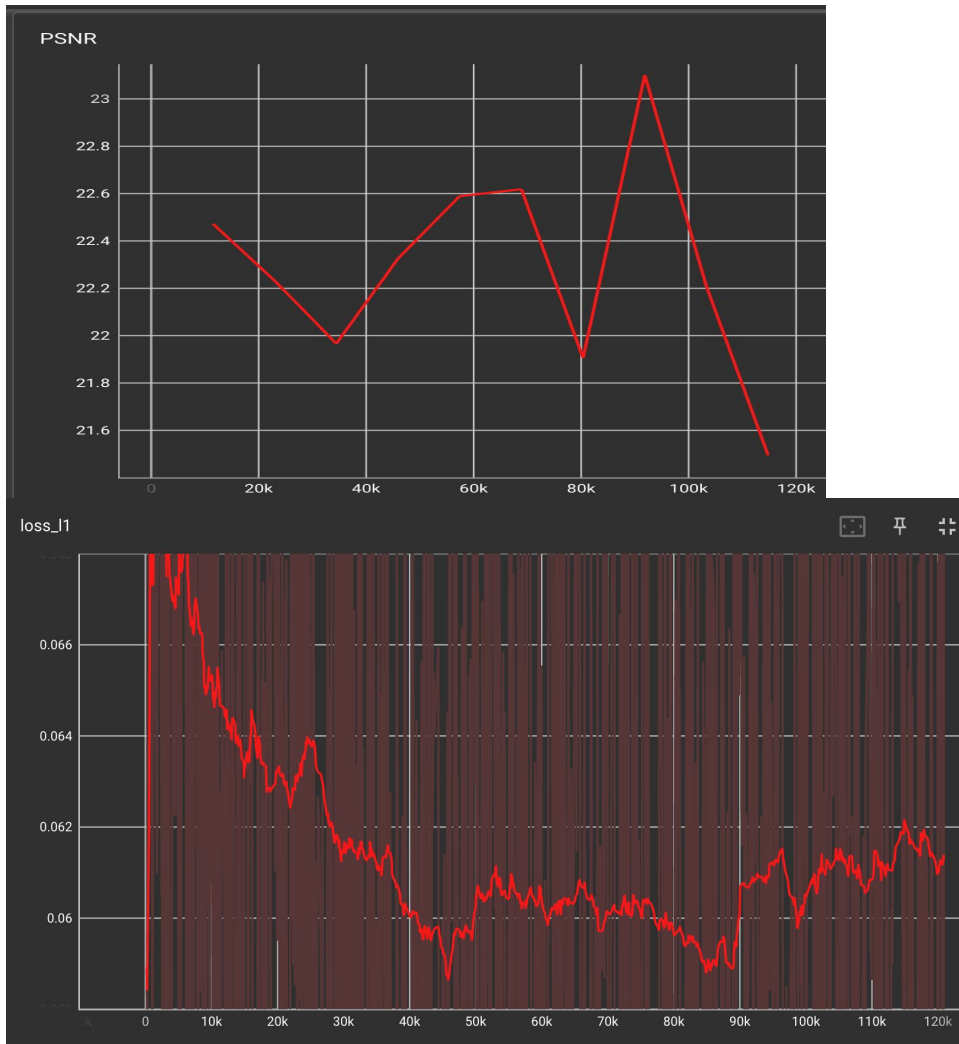
High-order-degradation

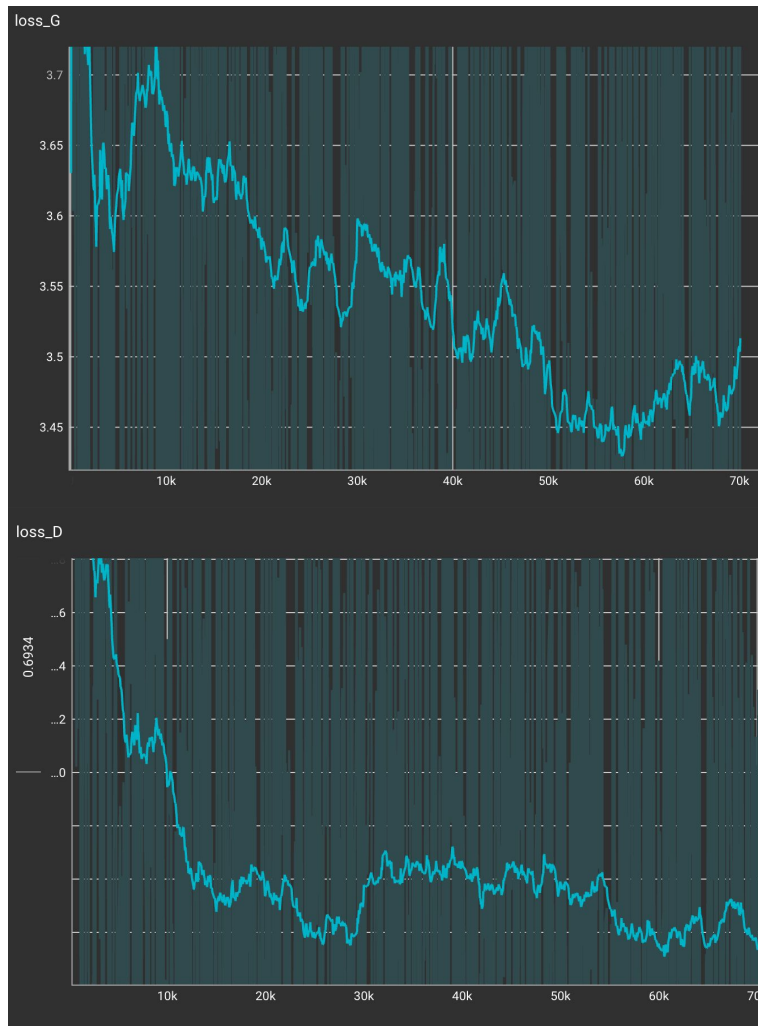# High-Order-Degradation

Training Real-ESRNET

Settings:

- Model: Prtrained ESRGAN
- Batch_size: 12
- Accumulation: 4
- Learning Rate: 2e-4
- Max_Steps: 1000k
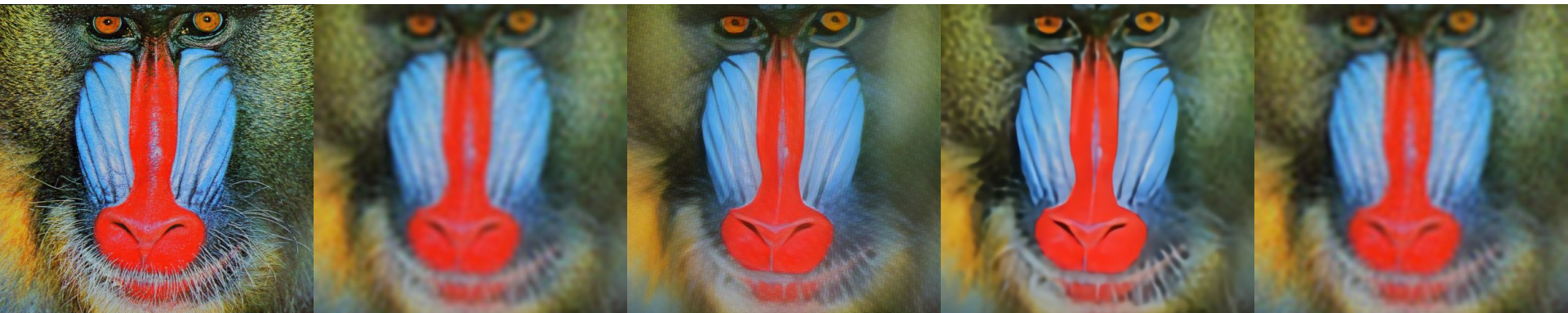- Steps: 120k
- Loss: L1Loss
- Best PSNR: 23.1

Training Real-ESRNET

Settings:

- Model: Real-ESRGAN
- Batch_size: 8
- Accumulation: 6
- Learning Rate: 1e-4
- Max_Steps: 400k
- Steps: 120K
- Best PSNR: 22.36

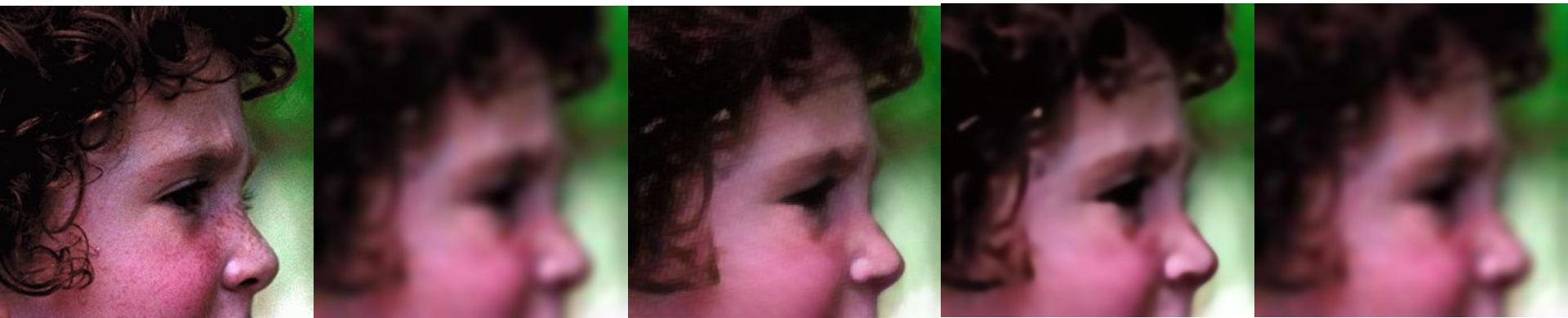# High-order-degradation Comparison

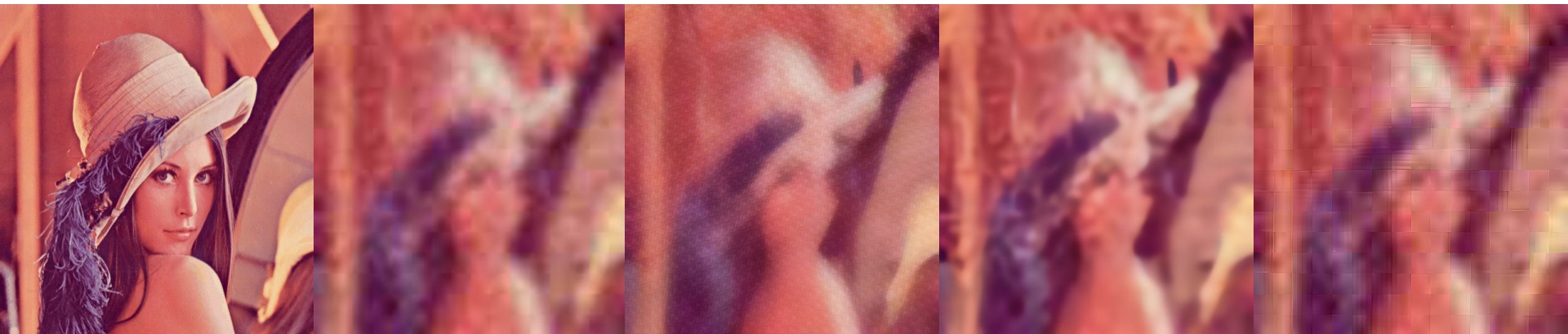| Ground Truth | BICUBIC | Real-ESRGAN | Real-ESRNET | ESRGAN |

High-order-degradation Comparison

Ground Truth   BICUBIC   Real-ESRGAN   Real-ESRNET   ESRGAN

High-order-degradation Comparison

| Ground Truth | BICUBIC | Real-ESRGAN | Real-ESRNET | ESRGAN |

High-order-degradation Comparison

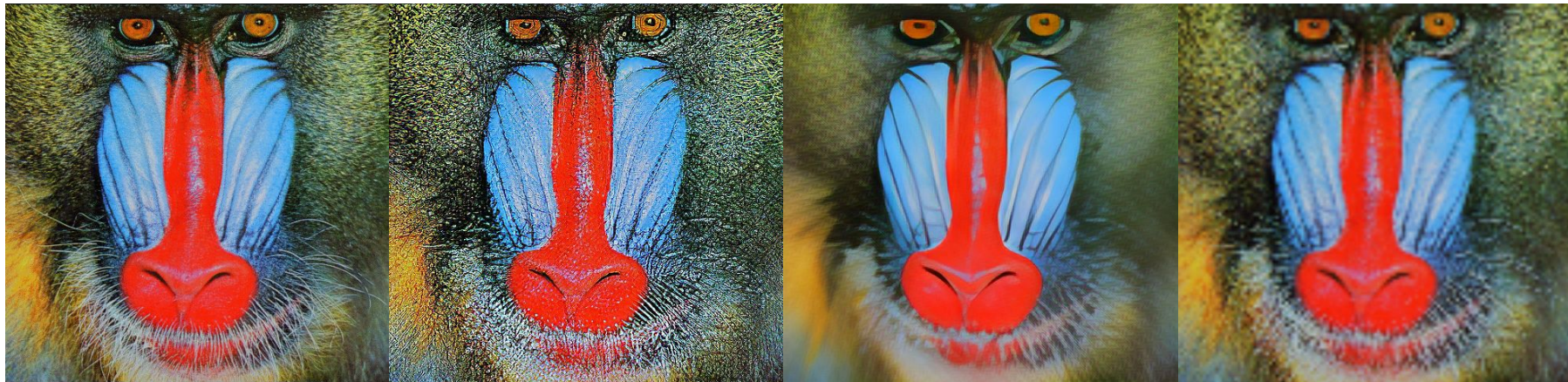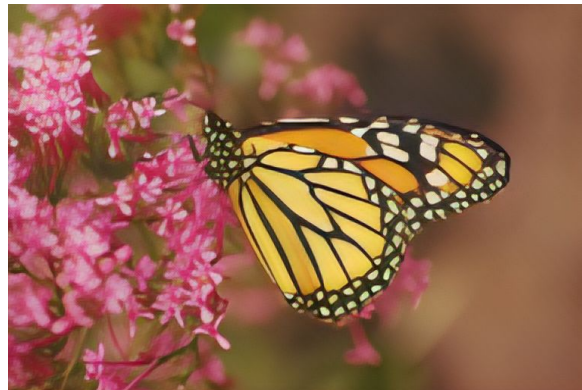Ground Truth   ESRGAN   Real-ESRGAN

BICUBIC Comparison

Ground Truth   ESRGAN   Real-ESRGAN   BICUBIC

BICUBIC Comparison

Ground Truth

Real-ESRGAN

ESRGAN

BICUBIC