

**TITLE**

*AUTHOR NAME*

*Advisor: Kevin T. Chen*

*Department of Biomedical Engineering*

*National Taiwan University*

*Taipei, Taiwan*

August 2025



# **Acknowledgements**



## **Chinese Abstract**



# **Abstract**





# Contents

<b>Acknowledgements</b>	<b>i</b>
<b>Chinese Abstract</b>	<b>iii</b>
<b>Abstract</b>	<b>v</b>
<b>List of Figures</b>	<b>ix</b>
<b>List of Tables</b>	<b>xi</b>
<b>List of Abbreviations</b>	<b>xiii</b>
<b>1 Introduction</b>	<b>1</b>
1.1 Section Title . . . . .	1
1.1.1 Subsection Title . . . . .	1
<b>2 Related Works</b>	<b>3</b>
<b>3 Materials and Methods</b>	<b>5</b>
<b>4 Results</b>	<b>7</b>
<b>5 Discussion</b>	<b>9</b>
<b>6 Conclusion</b>	<b>11</b>
<b>Reference</b>	<b>13</b>

<b>Appendix</b>	<b>15</b>
A   Section Title . . . . .	15
B   Section Title . . . . .	15

# List of Figures



# List of Tables



# List of Abbreviations

<b>AD</b>	Alzheimer’s disease
<b>B-A plot</b>	Bland–Altman plot
<b>CNN</b>	Convolutional Neural Network
<b>CT</b>	Computed Tomography
<b>FDG</b>	Fluorodeoxyglucose
<b>GAN</b>	Generative Adversarial Network
<b>GE</b>	General Electric
<b>MNI</b>	Montreal Neurological Institute
<b>MR</b>	Magnetic Resonance
<b>MSE</b>	Mean Squared Error
<b>OSEM</b>	Ordered Subset Expectation Maximization
<b>PET</b>	Positron Emission Tomography
<b>PSNR</b>	Peak Signal-to-Noise Ratio
<b>ROI</b>	Region of Interest
<b>SIEMENS</b>	Siemens
<b>SPM12</b>	Statistical Parametric Mapping, London, UK

<b>SSIM</b>	Structural Similarity
-------------	-----------------------



# **Chapter 1**

## **Introduction**

### **1.1 Section Title**

TODO

#### **1.1.1 Subsection Title**

TODO



## **Chapter 2**

### **Related Works**



## **Chapter 3**

### **Materials and Methods**



## **Chapter 4**

### **Results**





# **Chapter 5**

## **Discussion**



## **Chapter 6**

## **Conclusion**



## Reference



# Appendix

## A Section Title

TODO

## B Section Title

TODO