

Date of birth: 17 Jul 1997 | **Nationality:** Chinese | **Gender:** Male | (+61) 411647678 | brettyang@live.com |

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About me: I am a medical physics graduate with a particular interest in incorporating machine learning techniques in biomedical sciences. My master thesis focused on pixel-level object detection from whole-slide images using deep neural networks. I am looking for new medical physics projects that appeal to machine learning techniques.

● EDUCATION AND TRAINING

26 FEB 2016 – 24 JUL 2019 – University of Melbourne, Parkville, Australia
BACHELOR OF SCIENCE – University of Melbourne

Advanced Calculus
Complex Analysis
Classical Dynamics
Electrodynamics
Quantum Mechanics
Particle Physics
Statistical Physics

Grade: 70%

24 FEB 2020 – 15 JUL 2021 – City Road, Camperdown, Australia
MASTER OF MEDICAL PHYSICS – University of Sydney

Anatomy and Biology Essentials for Physicists
Health Physics and Radiation Protection
Nuclear Physics
Nuclear Medicine Physics
Radiation Physics and Dosimetry
Medical Imaging Physics
Computation and Image Processing
Radiotherapy Physics

Thesis: A Deep Learning-Based Software for Neural Cell Segmentation and Quantification (Distinction)

● LABORATORY EXPERIENCE

1 FEB 2021 – CURRENT
The Laboratory of Molecular Neuroscience and Dementia

- Handling equipment in a BSL-2 laboratory
- Immunostaining
- Tissue-cutting

● DIGITAL SKILLS

Deep Learning APIs

TensorFlow | Keras | Numpy | Matplotlib | Scikit-Learn | Scipy

Programming Languages

MATLAB | Mathematica | C++ | Python

Google Cloud Platform

Compute Engine | Cloud Storage | Cloud TPU

Other Digital Skills

Microsoft Office | Logic Pro X

● LANGUAGE SKILLS

Mother tongue(s): CHINESE

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C2	C2	C2
FRENCH	A2	A2	A2	A2	A2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● CREATIVE WORKS

1 MAR 2016 – 1 NOV 2019

EMS Stage Band

I was the drummer for the Melbourne-based jazz band. We are a regular performer at local establishments, including the renowned Bennetts Lane Jazz Club.

<https://www.ems.org.au>

1 JAN 2020 – CURRENT

Music Production

I create and engineer sounds that reflects the underground electronic music scene. I occasionally DJ at private events.

<https://soundcloud.com/where-is-brett>

● HOBBIES AND INTERESTS

Football

Currently I play as a fullback for Cooks River Titans in an amateur league under the Australian Football Association.

<https://www.cooksrivertitans.com.au>