



BRIAN FORMENTO

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Experience

Researcher 08/2019 – 08/2020
IDS, National University of Singapore, Singapore

Research in data science and computer vision for medical imaging.

Built a front end WebUI (A medical software for hospitals and polyclinics in Singapore).

Developed a business insight tool to analyse the spending behaviour of 1.5M Singaporeans.

Supervised by: Prof Wynne Hsu & Prof Mong Lee

Intern - Singnal processing 07/2017 – 09/2017
Roke Manor Research, United Kingdom

Working with Matlab, C and Python, for the implementation of a researched SP algorithm.

Intern - Electronic engineer 07/2016 – 09/2016
L3 ASV, United Kingdom

Designed a PCB, reduced costs by £1450 per item.

Projects

Gait recognition meta-learner 01/2019 – 07/2019
National University of Singapore, Singapore

Used video data and one-shot learning with a recurrent convolutional neural network in a Siamese formation for gait recognition research.

Point cloud AI denoiser 07/2018 – 01/2019
Southampton University, United Kingdom

Using ML to remove aliasing and moiré from point cloud render videos. Used a convolutional recurrent autoencoder.

Scenery recognition 07/2018 – 01/2019
Southampton University, United Kingdom

15 class scene recognition. Achieved 3rd highest accuracy in a class of 300 students. Used ResNet50 together with an SVM.

Protein structure predictor 01/2018 – 07/2018
Southampton University, United Kingdom

Secondary protein structure prediction using an LSTM. Achieved close to state-of-the-art performance.

Education

Phd Student – Computer Science 08/2020 – present
National University of Singapore, Singapore

Received the Singapore International Student Award scholarship.

Supervised by: Dr Chen Zhenghua A*Star, Dr. Foo Chuan Sheng A*Star, Prof See-Kiong Ng NUS

MEng (1st Class Hons) Electronic engineering with AI 09/2015 – 07/2019
Southampton University, United Kingdom

Key Modules: Computer Vision, Evolution of complexity, Advanced programming, Machine Learning, Computational Biology.

University's entrepreneurial activities

- Co-organised and co-run 5 speaker events and 2 workshops throughout the year 16/17.
- Scouted and fast-forwarded through an incubator 3 teams, one won £25k from 3 investors in 2017.
- Pitched a start-up together with two all-star students in 2016
- Pitched another start-up in 2016 and won £3k.

Skills

Computer science

Numpy, Scikit-learn, Pandas, Keras, Pytorch, Matplotlib, Anaconda, Git, Docker, Linear algebra, Deep learning, Computer Vision, OpenCV, Machine learning, HTML, CSS, JavaScript, ReactJS, C, C++.

Languages

English & Italian

Native

Hackathons

Attended 8, Finalist in 3.

F10 hackathon 15/09/2019
Pwc headquarters, Singapore

Developed with a team an AI tool to aid corporate action decision making. It uses stock exchange data and random forest decision trees.

Yitu online hackathon 20/02/2019
Singapore

Object detection task on pedestrian/cars, my model achieved the 10th highest accuracy in the whole of Singapore, **won \$300.**