

Larry Law ☑🌐🌐

CS Senior, National University of Singapore
Research Intern, DSO National Laboratories



RESEARCH INTEREST

- Natural Language Processing
- Machine Learning

EDUCATION

- **National University of Singapore** *Aug. 2018 – May. 2022 (expected)*
Bachelor of Computing in Computer Science; GPA: 3.54/4 or 4.42/5
- **Raffles Institution** *Jan. 2010 - Dec. 2015*
GCE 'A' Levels; 6/7 Distinctions

HONOURS AND AWARDS

- Dean's List *Jan. 2021 - May. 2021*
- Invited to the NUS research programme (Turing Programme). *Jan. 2021*
- Placed on the University Scholar's Programme Honour Roll. *Aug. 2019 - May. 2020*

RESEARCH EXPERIENCE

- **DSO National Laboratories** *May 2021 - Present*
Research Intern, Probing Multi-lingual Embedding (under Dr Chieu, Prof Lee Wee Sun, and Lim Jing)
- **National University of Singapore** *May 2020 - May 2021*
Research Student, Integrating Bayesian Optimisation with Network Morphism (under A/P Bryan Low)
 - Proposed a **planning framework that integrates Network Morphism (NM) and non-myopic Bayesian Optimisation (BO)**: non-myopic BO accounts for the morphing of architectures which perform well in the long run while NM provides non-myopic BO with the cheaper objective function by recycling weights.
 - Showed that **Bayesian Sequential Decision Problem (B-SDP) naturally ties together NM and non-myopic BO** because NM serves as the transitions between states in B-SDP while B-SDP is a problem formulation common in non-myopic BO.
 - **Module Grade: A⁺**. Links: [Report] [Slides]

PROJECTS

- **Automatic Github Issue Labeller** *Mar 2021 - May 2021*
CS4248: Natural Language Processing
 - **Published a Github Action that automatically labels github issues using NLP** in the marketplace.
 - **Outperforms traditional regex approaches** in F1 score (0.8723 vs 0.3634) and accuracy (0.8752 vs 0.5267) on our test set.
 - **Module grade: A**. Links: [Marketplace] [Poster] [Report]
- **DuckieNet** *Aug 2020 - Nov 2020*
CS2309: Research Methodology
 - Proposed **DuckieNet**, a model which **integrates planning with Semantic Segmentation for Goal-Directed Autonomous Navigation in Crowded Environments**.
 - **Demonstrated efficacy and feasibility** by testing DuckieNet on the simulated self-driving car environment, DuckieTown.
 - **Module grade: A⁺**. Links: [Report] [Demo] [Code]

PROGRAMMING SKILLS

- **Languages:** Python, Bash, Java, Javascript
- **Technologies:** PyTorch/TensorFlow/Keras, Scikit-Learn/pandas/numpy, Docker