

# Damien Lancry

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## EXPERIENCE

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### A\*STAR - Agency for Science, Technology and Research

Singapore

Research Assistant

Feb 2019 – Ongoing

- Background research on state-of-the-art methods in Bayesian Deep Learning.
- Application of Deep Bayesian Active Learning to datasets provided by A\*STAR's Institute of Microelectronics (IME).

### HomeRez - Online Property management of vacation rental

Paris, France

Data Analyst Intern

Jun 2017 – Sep 2017

- Data Acquisition by scraping Airbnb, HomeAway using Crawlera
- Development and Deployment of a pricing algorithm (feature selection, feature engineering)
- Validation of the model by comparing performance of houses

### Hotel Mikazuki

Hotel Trade

Summer Intern

Jun 2016 – Aug 2016

- Employee in a hotel in Japan as a customer supporter.
- Daily use of the Japanese language.
- Beforehand, Japanese formation and immersion in a Japanese host family.

## EDUCATION

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### Imperial College London

London, United Kingdom

M.Sc. Advanced Computing

Oct 2017 – Oct 2018

Course total: 84.3 / 100 (A\*). Relevant Courses: Mathematics for Machine Learning, Dynamical Systems and Deep Learning, Reinforcement Learning, Advanced Machine Learning and Pattern Recognition, Data Analysis and Probabilistic Inference

### CentraleSupélec

Paris, France

Programme Grande École

Sep 2015 – Ongoing

Supélec Engineering Program. Top-tier Engineering School in Electrical Engineering, Computer Science and Telecommunications. 1st year GPA: 3.9/4

### Lycée Pasteur

Neuilly-sur-Seine, France

Classes Préparatoires Grandes Écoles

Sep 2013 – Jul 2015

2-year intensive program in advanced mathematics and physics with the main goal of training students for enrolment in one of the Grandes Écoles.

## ACADEMIC PROJECTS

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### M.Sc. Thesis: Deep Reinforcement Learning for Simulated Car Racing

May 2018 - Oct 2018

- modified TORCS' source code to make it tailored to Deep RL purposes
- developed an openAI gym interface for TORCS
- applied openAI's implementation of state-of-the-art Deep RL algorithms on this new environment.
- discovered and fixed bugs in OpenAI's baselines implementation.

### CentraleSupélec 2nd year project: Style transfer between Images

Dec 2016 – Jun 2017

- Implementation of Neural Style Transfer using TensorFlow
- Implementation of Texture Networks: Feed-forward Synthesis of Textures and Stylized Images using TensorFlow

## SKILLS

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**Programming Languages:** Proficiency in Python, Experience with Matlab, Octave, Java, JavaScript, C++

**Python Libraries:** PyTorch, TensorFlow, Keras, Pandas, ScikitLearn, Numpy, OpenCV, MongoDB, Matplotlib, Skorch, modAL

**Operating Systems:** Linux (Ubuntu), Windows

**Languages:** French (native), English (full professional proficiency), Spanish (limited working proficiency), Japanese (elementary proficiency)