Herbie Bradley

Contact & Social Media

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Education

2019   **BSc (Hons) Computer Science and Mathematics**   **Keele University**
First Class | Final Grade: **79%** | Dissertation Grade: **76%**
Highlights: Natural Computation: 90% | Android Development: 90%
Probability: 100% | Differential Equations: 92% | Abstract Algebra: 87%
Dissertation: "An Exploration of Style Transfer with Deep Learning"
Supervisor: Professor Peter Andras

Projects

FAST NEURAL STYLE
2019

Python
PyTorch implementation of the Fast Neural Style deep learning model (Johnson et al., 2016).
- Capable of transforming any image into the style of a second image, often a painting or sketch.
- Part of final undergraduate project.

CYCLEGAN
2018

Python
Tensorflow implementation of the CycleGAN deep learning model for style transfer (Zhu et al., 2017).
- Capable of general image-to-image translation. For example: Photo⇔Monet, Summer⇔Winter, Horse⇔Zebra.
- Uses Tensorflow's Eager Execution model and Keras API.
- Part of final undergraduate project.

PERSONAL BLOG
2018

HTML, CSS, Jekyll
A personal site and blog made with the Jekyll static site generator.
- Uses custom CSS and HTML for a responsive theme.
- Includes Disqus comments, Google analytics, and SEO optimisation.

KEELE ACORN-MAN
2018

Java
A Pac-Man inspired game with Keele University themed art.
- Features scores, power-ups, and path-finding AI to chase player.
- Group project for Software Lifecycles & Development module.

FARM LOGGER
2017

Java - Android Studio
An Android app for management of a farm.
- Utilises an SQLite database to allow users to add, edit and delete records.
- Includes functionality to export the database to a CSV file.
- Project for Android Development module.

Skills

Knowledge of:	Python, Java, Machine Learning (Tensorflow, PyTorch, Keras), Unix/Linux, Git, Android Studio, LaTeX
Exposed to:	C++, SQL, HTML, CSS, JavaScript, Ruby, MATLAB, Mathematica, Lua

Presentations

April 2019	*Style Transfer with Deep Learning* - Keele Machine Learning Reading Group
March 2019	*The NEAT & HyperNEAT Algorithms* - Class Seminar

Awards

March 2019	Keele University Social Squad Competition - Blog Post

Other

November 2018	Coursera Deep Learning Specialisation - 100%
March 2014	ATCL Diploma in Piano Performance (Distinction)

British national and UK resident.