

# Herbie Bradley

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## EDUCATION

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2019 - 2020    **MSc Data Analytics**    **University of Warwick**

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

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FAST NEURAL STYLE 2019	<b>Python</b> PyTorch implementation of the Fast Neural Style deep learning model ( <a href="#">Johnson et al., 2016</a> ). <ul style="list-style-type: none"><li>Capable of transforming any image into the style of a second image, often a painting or sketch.</li><li>Part of final undergraduate project.</li></ul>
CYCLEGAN 2018	<b>Python</b> Tensorflow implementation of the CycleGAN deep learning model for style transfer ( <a href="#">Zhu et al., 2017</a> ). <ul style="list-style-type: none"><li>Capable of general image-to-image translation. For example: Photo<math>\Leftrightarrow</math>Monet, Summer<math>\Leftrightarrow</math>Winter, Horse<math>\Leftrightarrow</math>Zebra.</li><li>Uses Tensorflow's Eager Execution model and Keras API.</li><li>Part of final undergraduate project.</li></ul>
PERSONAL BLOG 2018	<b>HTML, CSS, Jekyll</b> A personal site and blog made with the Jekyll static site generator. <ul style="list-style-type: none"><li>Uses custom CSS and HTML for a responsive theme.</li><li>Includes Disqus comments, Google analytics, and SEO optimisation.</li></ul>
FARM LOGGER 2017	<b>Java - Android Studio</b> An Android app for management of a farm. <ul style="list-style-type: none"><li>Utilises an SQLite database to allow users to add, edit and delete records.</li><li>Includes functionality to export the database to a CSV file.</li><li>Project for Android Development module.</li></ul>

## SKILLS

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KNOWLEDGE OF: Python, Java, C++, Machine Learning (Tensorflow, PyTorch, Keras),  
Unix/Linux, Git, Android Studio,  $\LaTeX$   
EXPOSED TO: R, Weka, SQL, HTML, CSS, JavaScript, Ruby, MATLAB, Lua,  
Mathematica

## PRESENTATIONS

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APRIL 2019    *Style Transfer with Deep Learning* - Keele ML Research Group  
MARCH 2019    *The NEAT & HyperNEAT Algorithms* - Class Seminar

## AWARDS

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2019 - 2020    Warwick Taught Masters Scholarship

## OTHER

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

British national and UK resident.