Vince Jankovics

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Skills

- Machine learning, data science, data processing
- Python (PyTorch, TensorFlow, Ray, SciPy, NumPy, Scikit-learn, OpenCV, Flask)
- C/C++, Matlab & Simulink, HTML/CSS
- GCP, Kubernetes, Kubeflow, MySQL, MongoDB, Redis
- Linux, Docker, HTCondor, ROS, Gazebo, LaTeX

Education

2019-present **PhD Machine Learning**, City, University of London.
Topic: Graph-based reinforcement learning

2015-2016 **MSc Robotics**, University of Bristol & University of West England.
Dissertation topic: Nonlinear dynamic gain scheduling control for the Bixler model
Graduated with Distinction, received 'The Examiners Prize for the Best Dissertation'

2012-2015 **BSc Mechatronics**, University of Southern Denmark.
Thesis topic: Artificial neural network based adaptive complaint control for robotic arms

Experience

2019-present **Freelance Machine Learning Engineer**.
- Worked on a broad range of projects with clients from different industries.
- Projects ranged across consultation, proof-of-concept development and final product deployment.
- For a full list of projects please see my portfolio at `vincejankovics.com`.

2019 **Research Visitor**, City, University of London, London.
- Worked on neuro-symbolic learning for Inductive Logic Programming problems.
- Built on a previously developed system, improving the performance and providing a Python interface for the C++ legacy code.

2017-2018 **Machine Learning Engineer**, Cambridge Consultants Ltd., Cambridge.
- Worked on advanced machine learning systems to provide solutions to clients by improving and tailoring published state-of-the-art algorithms.
- Contributed to projects in image restoration, object detection, segmentation, data augmentation.
- Developed an in-house ML framework for training management and logging.
- Developed highly optimized code to run deep learning models in real-time.

2016-2017 **Application Support Engineer**, MathWorks Ltd., Cambridge.
- Provided technical support for customers in various fields, e.g. machine learning, robotics, control systems, signal processing, embedded systems.
- Contributed to the IMAV 2017 drone competition by developing a simulation framework using Gazebo, ROS and Simulink.
- Developed tests for new features of the Matlab Deep Learning toolbox.

2016 **Robotics Intern**, 2 months, DroneX Ltd., Bristol.
- Worked on software development, control system design and mechanical setup for UAV and bipedal robotic systems.
- Explored bipedal locomotion algorithms.
- Prototyped control systems using simulators (Gazebo, V-REP)

2013-2014 **Student Research Assistant**, SDU, Sonderborg - DK, Bielefeld - GER.
- Worked on software development and design of tactile sensors.
- Designed and implemented a novel curved tactile sensitive fingertip, including mechanical structure, 3D printing and electronics.
- Implemented an autonomous testing system for the tactile sensors using C++.
- Integrated the testing framework with a Universal Robots robotic arm for physical data acquisition.