

# Vince Jankovics

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📄 [vincejankovics.com](http://vincejankovics.com)

## 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, L<sup>A</sup>T<sub>E</sub>X

## 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 compliant control for robotic arms

## Experience

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