Aleix Cambray Roma

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EDUCATION

MSc in Computer Science (Machine Learning) – Imperial College London — **London, UK**

- **Grades known:** 80% - First Class Honours with Distinction — 2018 - Present
- Research Project**:** Facial Emotion and Facial Expression recognition with Samsung AI - Prof. Maja Pantic
- Relevant Modules:
  - ▪ Mathematics for Machine Learning
  - ▪ Computational Optimisation
  - ▪ Deep Learning
  - ▪ Computer Vision
  - ▪ Machine Learning for Imaging
  - ▪ Reinforcement Learning
  - ▪ Intelligent Data Analysis and Probabilistic Inference
  - ▪ Natural Language Processing
- Individual Research Module: Machine Translation with aid of Visual Information (NLP/Computer Vision)

MSc in Robotics and Intelligent Systems – University of Bristol — **Bristol, UK**

- **Grades**: 85% - Distinction || Award for Best Overall Student — 2017 - 2018
- Research Project: Fully-Convolutional Networks for subject pose-estimation from RGB images.
- Relevant Modules:
  - ▪ Statistical Pattern Recognition
  - ▪ Intro to Artificial Intelligence
  - ▪ Image Processing and Computer Vision
  - ▪ Intelligent Adaptive Systems
  - ▪ Robotics Systems
  - ▪ Uncertainty Modelling for Intelligent Systems

Bachelor's in Engineering – University of Bristol: — **Bristol, UK**

- **Overall Grade**: 82% - First Class Honours || Department Award for Top grades of Cohort — 2014 - 2017
- Final Year Project: LIDAR sensing for autonomous navigation - Real-time 3D data-processing and reliability experiments.

Spanish Baccalaureate and National University Entry Exams — **Barcelona, Spain**

- **Overall Grade**: 13.09/14 (93.5%) — 2013

AWARDS

- **Engineering Mathematics Department Best Overall MSc Student Prize** — 2018
  Awarded for best grades (taught component and research dissertation)
- **Head of Department Award / Rolls-Royce Prize** — 2017
  Awarded for achieving the highest grades of my cohort in my BEng at the University of Bristol.
- **Ministry of Education Distinction, Award and Prize** — 2013
  Awarded for excellent scores (top 200 nationwide) on the standardised National University Entry exams.

EXPERIENCE: PROJECTS and COURSEWORK [Selection]

Computer Vision - Deep Learning	
- MSc Thesis 2019: Facial Expression, Emotion Recognition - Prof. Maja Pantic and Samsung AI Center - MSc Thesis 2018: F-CNNs for Body Pose Estimation - Personal Project: CNNs for Histopathologic Cancer Detection	PyTorch TensorFlow Keras - TF
NLP - Deep Learning	
- MSc Research 2019: Image Captioning with Grounding of Phrases, extension to Multimodal Translation. - Coursework: LSTM & GRU based Twitter Offensive Language Detection	PyTorch Keras
Traditional ML, Probabilistic Inference and Optimisation	Python
- Coursework: Bayesian Linear Regression - Coursework: PCA, LDA and whitening - Coursework: Spherical SVM Dual formulation and optimisation - Coursework: Gaussian Processes - Coursework: Logistic Regression and Markov Chain Monte Carlo - Coursework: Mean-field Variational Inference - Coursework: Decision Trees and Tree Pruning - Coursework: Reinforcement Learning - Markov Decision Processes and Q-Learning - Coursework: Convexity and Constrained Optimisation	

SKILLS, ACTIVITIES & INTERESTS

Technical Skills: Python, C++, MATLAB, SQL || PyTorch, TensorFlow, Keras, scikit-learn, Pandas, OpenCV…

Languages: English, Spanish and Catalan (Proficient and Native)

Other Activities: Football: 1st team at Uni of Bristol and 1st Team at Imperial College. I am a driven team-player and enjoy supporting my team-mates through tactic talks in games. I organise training sessions and encourage first-timers to improve. Organised and refereed futsal league at Bristol.

Machine Learning Talks/Workshops of current avenues of research and real-life applications of what I'm passionate about. I attend talks by researchers and industry professionals on ML and other related-fields to gain scope and details