Luca SCIMECA

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EDUCATION

2017-Current	PhD in ENGINEERING, University of Cambridge, Cambridgeshire, UK
2013-2017	BEng Hons in SOFTWARE ENGINEERING AND ARTIFICIAL INTELLIGENCE, University of Edinburgh, Edinburgh, UK FIRST CLASS - 4.0 GPA

RESEARCH AND PROJECTS

2016-2017   RoboAnt Research
University of Edinburgh

- Researched in the mobile-powered robotics area under the supervision of a professor at UoE.
- Implemented mobile-phone powered autonomous robot based on insect brain.
- Devised new algorithms/implemented Ant Navigational Toolkit (Path Integration, Visual Homing, Search)

2016-2017   Image Classification With DNN

- Experimented on CIFAR-10 and CIFAR-100 with Tensor Flow Convolutional Neural Networks (CNNs).
- Focused on Multitask Learning, devising new learning rules for the procedure and adopting them to increase default performance.

2016   Hand-written digit classification with DNN

- Experimented with Adaptive Learning Rules, Batch Normalization, Convolutional Neural Networks.
- Increased CNN forward and backward propagation speed of common algorithms by 2x (Python, no GPU).
- Achieved near state of the art performance on MNIST dataset.

2015-2016   System Design Project
University of Edinburgh

- Built a robotic prototype for two-a-side football competition.
- Implemented general machine learning algorithms, image processing and remote autonomous planning.
- Prototype built using Arduino board and various electrical and mechanical components.

2015   Undergraduate Research Practical
University of Edinburgh

- Researched along a professor at UoE in the area of Bidirectional Transformations.
- Explored OO implementations of the concepts and implemented models of Bx behavior in Java.

2015   Research on the Carneades Argumentation System
University of Edinburgh

- Developed a python version of the Carneades system of argument evaluation.

Work Experience

Aug 2016 *May 2016*	Software Engineer at Extraordinary Managed Services Ltd, Edinburgh • Front and back end experience through development of large software for in-house use. • Member of SCRUM team. • Administration of a large and complex network (ISP level). • Deployment of new networking infrastructure.
May 2017 *Sept 2014*	Resident Assistant at Chancellor's Court, Edinburgh *University of Edinburgh (UoE)* • Managed multiple floors of a university residence with ethnically different people. • Counseled students on different personal and academic issues. • Developed communication, creativity, leadership, event planning, community building, time management and analytical skills.

Honors and Awards

2017	Howe Undergraduate Prize, at The University of Edinburgh • Best performance in Artificial Intelligence by a final-year student.
2017	BEng in Artificial Intelligence & Software Engineering class prize, at The University of Edinburgh • Best performance in Artificial Intelligence & Software Engineering by a final-year student.
2016	Winner of robotic 2-a-side Football tournament (System Design Project), at The University of Edinburgh
2015	Winner of the Edinburgh Award at University of Edinburgh
2014	Winner of The Smart Data Hack (hackathon) at The University of Edinburgh
2009-2013	Three times winner of scholarship "Borsa di Studio Benivegna". • Highest final cumulative grade achieved in current year of "Vittorio Emanuele III".
2013	Informatics Diploma - Graduated with a score of 100 in "Esami di Stato".
2010	Winner of "Premio di studi prof. Erasmo Siino" II Edition • Highest final grade achieved among all students in the town of Capaci.

Interests and Activities

Interests: Robotics, AI, Machine Learning, Vision, Technology, Open-Source, Coding Competitions, Outdoors, Traveling.
Member of Edinburgh University Young Researchers Association (EUYRA).
Martial Artist and Judo black belt: competed at National, European and International level (2003-2014).