Alexandros Kastanos

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PERSONAL DETAILS

Address:
480 Hornsey Road, London,
United Kingdom, N19 4EF
Languages
English (Mother Tongue) • Greek (Basic) •
Afrikaans (Basic)
Citizenship:
U.K and South Africa

EDUCATION

UNIVERSITY OF CAMBRIDGE

Master of Philosophy in Machine
Learning and Machine Intelligence
Oct 2018 - Sept 2019, Magdalene College
MPhil class representative
Thesis title: Uncertainty and confidence
scores for sequence data (71%)

UNIVERSITY OF THE WITWATERSRAND

BSc in Engineering (Electrical)
Graduated with Distinction
Jan 2014 - Dec 2017
Project title: Adaptive digital hearing aid
that adapts to a changing acoustic
environment (90%)

SAHETI SCHOOL

7 Distinctions
Grade 0 - 12 | 2001 - 2013
Johannesburg, South Africa

PROGRAMMING SKILLS

Advanced:
Python • Matlab • C++
Intermediate:
Keras • PyTorch • LaTeX • Assembly
Beginner:
Linux • SQL • Javascript • Julia

GRADUATE COURSES

Probabilistic Machine Learning •
Computer Vision • Speech Recognition •
Weighted Automata • Deep Learning and
Structured Data • Computational
Neuroscience • Advanced Machine
Learning • Reinforcement Learning and
Decision Making • Machine Translation •
Speech and Language Processing
Applications

EXPERIENCE

OCADO TECHNOLOGY | Machine Learning Engineer

October 2019 - Present | Hatfield, United Kingdom
Part of the 10x team, where I am responsible for the development of novel machine
learning and Natural Language Processing (NLP) projects.

DEEP LEARNING INDABA | Practical Tutor

Aug 2019 | Nairobi, Kenya
Tested and reviewed the practicals, assisted participants during practical sessions,
and presented a poster on confidence scores for speech recognition.

PERALEX ELECTRONICS | Software Development Engineer

Jan 2018 - August 2018 | Cape Town, South Africa
- Worked in an agile team environment to introduce deep learning approaches to
  replace existing passive radar detection systems
- Designed and implemented a number of signal detection systems using Keras
- Used Python for dataset management

PERALEX ELECTRONICS | Vacation Work

Nov 2016 - Jan 2017 | Cape Town, South Africa
- Made improvements in multirate filtering software which were accepted into
  the open source Julia DSP library.
- Wrote a program that checks C++ coding conventions
- Coded a Perl script for source code management

AWARDS

- MIT Press poster award, Deep Learning Indaba (2019)
- University of Cambridge Department of Engineering Scholarship (2018)
- Dean's List (top 10% of my class) throughout undergraduate (2014-2017)
- Top mark in Software Development III (84%) (2017)
- 2nd place poster at the electrical engineering department open day (2017)
- **Top student in third year electrical engineering** (2016)
- Top mark in Probabilistic System and Signal Analysis (99%) (2016)
- International Scholar Laureate Program (ISPL) award (2015)
- Awarded Golden Key South Africa Membership (2014)

CONFERENCES AND PUBLICATIONS

PAPERS
- A. Kastanos, A. Ragni, M.J.F. Gales, "Confidence Estimation for Black Box
  Automatic Speech Recognition Systems Using Lattice Recurrent Neural
  Networks", arXiv:1910.11933 [eess.AS], Oct. 2019. (Under review)

POSTERS
- A. Kastanos, A. Ragni, M.J.F. Gales, "Confidence Scores for Sequence Data,
  Presented at the Deep Learning Indaba 2019.

SOCIAL GOOD PROJECTS

Proposed a computer vision based mapping tool, **Health AIM**, to predict areas with
poor access to public health in Africa for the 2019 Geneva Challenge.