

Alexandros Kastanos

alecokastanos@gmail.com | +44 7927 315192 | U.K. work authorisation | github.com/alecokas

PERSONAL DETAILS

Address:

Magdalene College, Cambridge,
United Kingdom, CB3 0AG

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

Thesis title: Uncertainty and confidence
scores for sequence data

Department of Engineering Scholarship

UNIVERSITY OF THE

WITWATERSRAND

BSC IN ENGINEERING (ELECTRICAL)

Graduated with Distinction: 75%

Jan 2014 - Dec 2017

Project title: Adaptive digital hearing aid
that adapts to a changing acoustic
environment

SAHETI SCHOOL

7 Distinctions

Grade 0 - 12 | 2001 - 2013

Johannesburg, South Africa

PROGRAMMING SKILLS

Advanced:

Python • Matlab • C++

Intermediate:

Keras • Assembly • \LaTeX

Beginner:

PyTorch • Linux • SQL • Javascript • Julia

LEADERSHIP ROLES

Class representative

MPhil in Machine Learning and Machine
Intelligence, Univ. of Cambridge |
2018/19

Sporting Captaincy

High school 1st team tennis captain
High school athletics team captain

Schooling

Elected to be a member of the Saheti
School prefect group 2012/2013

EXPERIENCE

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

MARTHINUSEN & COUTTS | VACATION WORK

Nov 2015 - Jan 2016 | Johannesburg, South Africa

Set up three cost effective systems using VBA code, spreadsheets, and basic hardware. This was a six week project which aimed to introduce a power analyser, tan-delta testing, and triaxial vibration measurement systems for motors.

AWARDS

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

COURSEWORK

GRADUATE

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

ONLINE

Structuring Machine Learning Projects by deeplearning.ai on Coursera | Dec 2017
Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization by deeplearning.ai on Coursera | Dec 2017
Neural Networks and Deep Learning by deeplearning.ai on Coursera | Dec 2017
Machine Learning by Stanford University on Coursera | July 2017

CONFERENCE AND SEMINAR ATTENDANCE

Deep Learning Indaba 2019 where I tutored practical sessions and presented a poster on my research on confidence scores for speech processing. This was recognised as one of the top posters presented.

SOCIAL GOOD PROJECTS

Part of a team that 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.