Alexandros Kastanos

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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%)

PROGRAMMING SKILLS

Advanced:

Python • PyTorch • Matlab • C++ Intermediate:

Tensorflow 2 • Flux.jl • Julia

Beginner:

Linux • SQL • Javascript • Assembly

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

PERSONAL PROJECTS

Machine Learning Blog

I maintain a blog on my website where I present interesting research, discuss concepts, and demonstrate frameworks.

Health Aim

Proposed a computer vision based mapping tool to predict areas with poor access to public health in Uganda for the 2019 Geneva Challenge.

EXPERIENCE

OCADO TECHNOLOGY | Machine Learning Engineer

October 2019 - Present | Hatfield, United Kingdom

Part of the 10x team, where I am responsible for the research and development of novel machine learning and Natural Language Processing (NLP) models. I work closely with other engineers and own my projects from inception to deployment.

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", in ICASSP, 2020.

Posters

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

PERSONAL DETAILS

Location: London, United Kingdom **Citizenship:** U.K. and South Africa

Languages:

English (Mother Tongue) • Greek (Basic) • Afrikaans (Basic)