Samuel Murray

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PERSONAL SUMMARY

Graduate student in machine learning with a strong mathematical background. Runner, hobby musician, board game enthusiast.

EDUCATION

Ph.D. Computer Science — October 2017 - Present
KTH, Stockholm
Specialisation in machine learning with focus on probabilistic models

M.Sc. Machine Learning — September 2015 - September 2017
KTH, Stockholm
Courses in machine learning, computer science and mathematics

Invited Researcher — February 2017 - June 2017
National Institute of Informatics, Tokyo
Master's thesis - *Real-Time Multiple Object Tracking: A Study on the Importance of Speed*

B.Sc. Engineering Physics — September 2012 - June 2015
KTH, Stockholm
Broad program in mathematics, physics and computer science

Exchange Semester — January 2015 - June 2015
EPFL, Lausanne
Bachelor's thesis - *Orienting Graphs and Hypergraphs*

Ritsumeikan Summer Japanese Program — July 2014 - August 2014
Ritsumeikan University, Kyoto
Japanese language course, A2 level

KEY SKILLS

Languages: Python, C++, Java, MATLAB, Spark, C#, Prolog
Machine Learning Libraries: TensorFlow, PyTorch, GPy
Software & Tools: Git, TravisCI, pytest, Codecov
Theory: Gaussian Processes, Bayesian Modelling, Deep Learning

EMPLOYMENT

Summer Intern - Developer — June 2016 - August 2016
Ericsson, Stockholm

- Set up and evaluated a streaming pipeline for big data analytics, together with two other interns.
- The aim of the project was to construct a pipeline for streaming data, using tools such as Apache Hadoop, Spark, Kafka, Elasticsearch and Kibana. This was done from scratch in a distributed manner using a cluster of three nodes. As an example use case, real time anomaly detection of streaming data was implemented in Apache Spark. Not only did this project give me hands-on experience of the tools used, but it also made me comfortable working in a

Unix environment. Additionally, a lot of freedom and responsibility was given to us interns, which made planning and team work an important factor.

Teaching Assistant August 2013 - August 2015
KTH, Stockholm

- Held classes and help sessions for first year students' introductory course in mathematics.
- Since all incoming students had very different backgrounds in mathematics, one of the biggest challenges for me was to make sure that no student got left behind. As the purpose of this course was to make sure that all students would manage the coming math courses, I spent most time going through the concepts at a basic level, and then aided students individually if they got stuck.

Private Tutor March 2013 - June 2014
Studybuddy, Stockholm

- Did homeschooling for individual students, in pre-university mathematics and physics.
- Held intensive courses in mathematics which helped students prepare for the national tests.
- All of my students were very ambitious, and already at a high level. This meant that my task was not to teach them basic formulas, but rather to train them in how to approach difficult problems, and how to use their knowledge in a structured way.