

Sandro Moszczynski

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I have recently completed my Masters degree in Quantum Technologies at UCL. I am looking for a programming position where I can use and grow my repertoire of skills relating to machine learning and programming as a whole.

Key Skills

Programming:	<ul style="list-style-type: none">○ Python (Object Orientated Programming, High Performance Computing, Tensorflow, 2-3 years experience)○ C++ (Object Orientated Programming, OpenMP, 1 year of experience)○ Machine Learning in C++ and Python○ HTML and CSS experience, coded my website which is linked○ Matlab during undergraduate○ Learning SQL○ GitHub and general project sharing experience with continuous integration
Rapid learning	<ul style="list-style-type: none">○ Taught myself relevant material for masters project before it was covered in class○ Learned C++ for advanced course in brief time with no prior experience○ Never shied away from challenging projects
Physical and Mathematical Understanding:	<ul style="list-style-type: none">○ Statistical methods (to research standard)○ Mathematical Modelling○ Physics Modelling
Teamwork:	<ul style="list-style-type: none">○ Worked professionally for 3 years in schools as part of science departments, both alone and as a group of technicians○ Worked in tight knit group as a Chef
Languages:	<ul style="list-style-type: none">○ English fluent (native)○ Polish conversationally fluent○ Open to learning new languages
Leadership & Organisation:	<ul style="list-style-type: none">○ Three years as President of Physics Society and a member of student council○ Organised school trips and helped with organisation of science department as the sole technician.○ Ran after school clubs at both schools, science club and engineering club○ Organised three physics balls at Sussex, widely attended by >150 people
Self Motivation	<ul style="list-style-type: none">○ Always looking to improve or learn new skills○ Learning SQL, CSS and HTML for personal development○ Working on personal programming projects, see website for details○ Constantly programming, see GitHub or website for details

Education

MSc in Quantum Technologies

Merit

University College London,

Sep 2019 – Sep 2020

Key modules: Quantum Communication, Machine Learning with Big Data, Research with C++ and Python.

Project focused on applying machine learning techniques to quantum error correction, specifically on working with topological codes. The project was based in python with elements extending to C. An algorithm based on projective simulation papers was created for use with this project.

External Advisor; Dr. Brian Antao, CEO Tundra Systems.

MSc in Physics

Merit

University of Sussex,

Sep 2014– Sep 2015

Key modules: Quantum Field Theory, Symmetries in Particle Physics, Data Analysis Techniques.

My dissertation took the premise of Supersymmetry and simplified the concepts to a single U(1) gauge, estimates of particle content were then made. Subjects taken were mostly theoretical with the exception of Data Analysis Techniques.

Advisor; Dr. Sebastian Jaeger.

BSc in Physics

Second Class Honours

University of Sussex,

Sep 2011– Sep 2014

Key modules: Condensed State Physics, Advanced Condensed state Physics, Scicomp (Python and Matlab).

The BSc in Physics covered both experimental and theoretical topics with three years of laboratory work.

Working Experience

Science Technician

London

Oasis Academy arena

Sep 2018–Sep 2019

I was employed as the sole technician in this secondary school. My responsibilities included ensuring all experiments have risk assessments and all stock is safely stored, including radioactive materials. I also delivered experiments for all three sciences and helped instruct pupils and teachers in how to best use the equipment we have.

Physics Technician

London

Harris Academy Beckenham

Sep 2016– Sep 2018

I was employed as a technician at this secondary school. My duties revolved around preparing practicals and being the physics specialist in the school. This requires I set up new practicals and explain physical problems to the teachers as well as setting up clubs involving science and engineering.

Commis Chef

London

The Queens Head (Fullers)

May-Sep 2016

Worked at a busy 400 seater gastro pub. My duties involved preparing for my station and keeping it tidy. Working with the other chefs in a tight knit team and making sure service ran smoothly.