

Emanuel Fontelles | Curriculum Vitae

☎ +55 85 9 8958 0740 • ✉ emanuelfontelles@hotmail.com

🌐 emanuelfontelles.github.io/

I'm a PhD student on Complex Systems, an interdisciplinary field of sciences, working with networks in general. I've been studying Complex Networks, Econophysics, Markowitz efficient frontier, Minimum Spanning Tree in stock market and Black-Scholes model, algorithms and data structures. My background is in physics and statistical mechanics. I have skills on programming languages, machine learning algorithms, data mining and data visualization.

EDUCATION

- **Lancaster University** **Lancaster**
Meng (Hons) Electrical and Electronic Engineering , Predicted First Class 2011–2015
- **Runshaw College** **Leyland**
A levels, ICT (A) Physics (B) Maths (B) 2009–2011
- **Southlands High School** **Chorley**
11 GCSEs, A to B Including Maths and English* 2002–2009

EMPLOYMENT

- **Eurogold Groundworks and Civil Engineering** **Moston**
Construction Site Operative July 2013–August 2013
I was responsible for the administrative duties and the tidiness and general order of the site. I worked in a safety-oriented manner, often working alongside construction plant and machinery. At the end of my work with the company my colleagues praised my work ethic.
- **Lavender Best Western Park Hall Hotel** **Charnock Richard**
Waiter, Catering and Banqueting 2009–2011
I worked for three years as a team leader providing silver service at weddings, stag/hen nights, and business conferences. I was often trusted with other jobs such as setting up conference rooms, moving beds around the hotel, and guiding big groups of customers to their rooms. As a team leader I would delegate tasks to a team of about 5 people, often new staff who needed training, and lead the group to service. During this time I worked in a highly professional manner and was focused to provide excellent customer service, even during high stress functions and events.
- **Ryan Electricals** **Southport**
Assistant Electrician January 2008
I spent a week working as an assistant electrician as part of my high school work experience. My roles included wiring plugs, tidying, and assisting with household electrical repairs and fittings.

PROGRAMMING SKILLS

- **Programming Languages:** Proficient in: C, C++, Python, Matlab, Arduino, TeX
Also basic ability with: Assembly, VBA, VHDL.
- **Industry Software Skills:** SolidWorks (Advanced), Matlab (Advanced), Ansys (Intermediate), LTspice (Intermediate), Most MS Office products including MS project and MS access (Advanced).
- **General Business Skills:** Good presentation skills, Works well in a team.
- **Other:** Good soldering and spot welding skills, Can write well organised and structured reports.

PROJECTS

- I was a "fresher representative" in my 2nd and 3rd years of university, this required me to guide, look after, and ensure that a particular flat of first years have a good time in their first week, and feel consoled in what for most of them is there first time living away from home. We were responsible for the safety and wellbeing of the group of first years during

the first week, and during this time I made good friends with all of them.

- o I am a member of a number of university societies. I was also the vice president and co-founder of the flash mob society. My roles in this included recruiting members, in which during "fresher's fair" we enlisted over 200 new members. This was regarded as very successful, considering other societies averaged around 50. I also appeared in an interview on the university television station, set up a society bank account, and helped organise the events. One of these events was featured in the local newspaper.
- o I am also an avid hiker, having completed the national 3 peaks challenge last summer. Other interest include guitar, which I am self-taught, and home brewing.

CONTACT ME

- o Up to 4 references available on request