

# Anthony S. Chapman

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2 F/L, 534 George Street  
Aberdeen, AB25 3XL

Mobile: +44(0)7708288138  
e-mail: [r01ac14@abdn.ac.uk](mailto:r01ac14@abdn.ac.uk)

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## ACADEMIC PROFILE:

2014 – Current

**PhD Applied Health Sciences and Computing - University of Aberdeen**

**Missing Data** – We are currently working of ways to efficiently impute data with missing values, one of the biggest hurdles is to evaluate whether imputing datasets is reliable or not.

**Clustering** – Using clustering techniques, we propose ways to find associations within datasets to given outcomes without any statistical bias. This applies unsupervised learning methods for analysis.

**Fetal Growth** – In order to find antenatal origins of chronic diseases and disorders, one has to first mathematically define growth trajectories for fetuses.

2010 – 2014

**BsC (Hons) Joint Computing Science and Mathematics - University of Aberdeen**

**Dissertation (Computing)** - To produce an asset management system which uses particle swarm optimisation algorithms to maximise the profit and minimise the risk of automated portfolio trading.

**Dissertation (Maths)** - Make a project reporting Integer Partitions and some fundamental principles.

**Modelling Project** – As a team we created a semi- stochastic, rule-based cellular automaton which successfully model road networks and the effects different type of junctions have on any road network.

**Team project Work** - Plan, design and implement a stock management system. The outcome was a Whitepaper proposal, a fully functioning system as well as a report documenting the experience.

**Independent research project** – 'How efficient are AQM schemes at absorbing bursts of traffic?' it analyses and proves that AQM schemes help networks against congestion and compares RED and CoDel to determine which is most efficient.

**Individual project work** - I wrote a paper titled 'Cyber Warfare: Do we need a Geneva Convention and its difficulties.' which discusses the importance of war conventions and why we need such a cyber equivalent.

2008 – 2010

**A-Levels - Littlehampton Sixth Form**

I have A-levels in Mathematics, Further Mathematics, Computing, English Language, Spanish and Art.

## RECENT WORK EXPERIENCE:

September 2014 – Current

**Mathematics Tutor, University of Aberdeen**

- I teach mathematics to first and second year students at my current university.
- One of the most interesting parts of this job had been how different people, with different educational backgrounds tackle problems.
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September 2011 - Current

**Volunteer Boxing Coach, Aberdeen University Boxing Club**

- I am a (volunteer) coach for the Aberdeen University Boxing club, managing 30 - 60 people per session.
- I have had to learn how to manage time and efforts efficiently to get the most out of the training.
- Boxing has been a big part of my growing up. It has taught me that hard work is nothing to be scared of, instead it is something I should look forward to.
- I have won competitions and awards, I have been the Northern Districts and Scottish Universities boxing champion for the years 2011, 2012 and 2013 in three different weight categories (69kg, 71kg, 75kg).

September 2010 – Current

**Bicycle Mechanic – BeCyCle, University of Aberdeen**

- BeCyCle is a community workshop designed to help people fix their own bikes.
- We teach people how the bike works (mechanically) and show them how to fix any problems they might have.
- It also has bikes for students to borrow for free throughout their time at the university.

March 2014 – April 2014

**Web Developer and Designer, Alta Camping**

- altacamping.no
- I alone designed, developed and published a website for a Norwegian camp site.

August 2013 – April 2013

**Mathematics Tutor, GoTutors**

- I taught mathematics to college students in the Aberdeen area.
- My aim is to make kids understand what is happening and why it is happening rather than just making them learn something for the sake of it.
- I treat every person differently, we all have our own learning rate and way of understanding things.

June 2013 - August 2013

**Junior Web-Developer, Mikamai (Milan)**

- I was part of a team that manages the web sites of very prestigious fashion companies including Prada and Miu Miu. This is based in Milan so they can have close interaction with the fashion companies.
- The secrecy and ever changing fashion styles meant we had to work with very tight deadlines and under high amounts of pressure to produce what these fashion companies desire.
- We had to have excellent communication skills in order to efficiently produce interdepartmental work and be flexible and work independently outside office hours when needed.

**Achievements:**

July 2011 - August 2011

**Cycled to Paris**

I can honestly say I could write a small book purely on the adventures of this trip. I believe it's an achievement as I alone cycled a 1970s beat up Peugeot Equipe through France without much knowledge of French (which improved dramatically) and soon realised that there are still places in this world where English is not spoken. In my journey I met new friends, found a job looking after show jumping horses in a farm in the middle of nowhere, saw marvelous art, tasted new foods and much more.

March 2009

**Young Enterprise Award**

I was hired as an external consultant, for a young enterprise scheme which ran at the sixth form I attended, as they were not doing well financially. I set up a marketing plan and recovered their losses and made a quick profit. Because of my involvement, we received a cash prize and an award for taking initiative and getting outside help when they needed it.

April 2009

**Charity Fund Raiser**

I was part of the sixth form council, amongst other things, I organised and ran a very successful quiz night to raise money for our common room and a charity, I raised over £500 in one night. I learned how to public speak, improvise when questions did not go according to plan and some tips on how to organising large events successfully.

**HARD SKILLS :**

- **Multilingual in Spanish and French**

I have spoken Spanish as well as English since birth and can speak French.

- **Project Management**

I have had experience leading a project and organising the work-flow.

- **Extensive abstract mathematical knowledge**

I have always been mathematically orientated, my success in anything mathematical is that I can happily read/write equations and theories for hours with a warm cuppa tea.

- **Programming Languages**

Whilst at University I have learned various languages, listed most knowledge first, Haskell, Tex, R, Python, Java, Ruby, MySQL, C and C++.

### **SOFT SKILLS:**

- **Self-motivated**

Boxing is a good example for this, unlike team sports who's team spirit might improve motivation, this sport demands high self-motivation and the ability to perform at a high standard independently.

- **Communication**

Experience in report writing, presentation skills, customer and client service led approach experience.

- **Organisation**

In the past hosted events such as quiz nights to raise money or casual departmental pizza and bowling nights.

- **Teamwork**

I have proven to have a strong teamwork ethic, can lead, but happy to take orders and carry out tasks.

- **Problem Solving**

I have the ability to assess a problem from diverse perspectives very quickly and therefore arrive at the best solution.

### **Hobbies and Interests :**

I have a strong passion for all two wheeled vehicles from bicycles to motorcycles. I built completely from scratch a 1983 Vespa T5 and I also have a 1943 BSA Bantam and a Yamaha Virago. Cycling is a big part of my life and look forward to both commuting, racing and touring with my bikes. I enjoy most types of fishing, particularly game fly fishing and I also own a sailing boat which I try to sail most weekends.