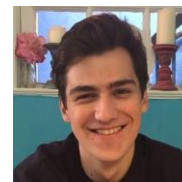


# Mark Fowden

9 Ridgeway Heights, Ridgeway Road, Torquay, Devon, TQ1 2ND

Mobile: 07590850708  
Email: markfowden@live.co.uk



---

## Professional Profile

I am a passionate and driven MSci Computer Science and Mathematics graduate with a precise understanding of cutting edge data analysis techniques and tools, including classification, prediction and recognition algorithms and the ability to use them to answer and ask key questions. I relish challenges and I like to apply techniques in novel ways with a scientific method from both practical and theoretical perspectives.

---

## Education and Qualifications

<b>MSci Computer Science and Mathematics</b>	First, integrated masters, University of Exeter, 2014-2018. Third year dissertation: <i>Genetic Programming with Human-based Statistical Models</i> <b>73%</b> Fourth year dissertation: <i>Learning Effective Neural Network Unit Controllers for Micro-management in StarCraft 2</i> <b>83%</b> Modules completed: <i>Machine Learning</i> <b>76%</b> , <i>Learning from Data</i> <b>80%</b> , <i>Computer Vision</i> <b>82%</b> , <i>Computer Simulation</i> <b>82%</b> , <i>Evolutionary Computation</i> <b>88%</b> , <i>Computer Graphics</i> <b>91%</b> , <i>Artificial Intelligence</i> <b>71%</b> , <i>Database Theory</i> <b>74%</b> , <i>Software Development</i> <b>85%</b> , <i>Cryptography</i> <b>67%</b> , <i>Vector Calculus</i> <b>77%</b> , <i>Differential Equations</i> <b>84%</b> , <i>Linear Algebra</i> <b>83%</b> etc.
<b>3 A Levels</b>	Torquay Boys' Grammar School, 2014. A* in <i>Mathematics</i> , A in <i>Computing</i> , B in <i>Physics</i>
<b>5 AS Levels</b>	Torquay Boys' Grammar School, 2013. A in <i>Mathematics</i> , A in <i>Further Mathematics</i> , B in <i>Economics</i> , B in <i>Computing</i> , B in <i>Physics</i>
<b>12 GCSEs</b>	Torquay Boys' Grammar School, 2012. 5 A*s (including <i>Mathematics</i> and <i>English</i> ), 7 As.

---

## Awards

<b>MSci Project Prize</b>	For best final year project of all students studying MSci Computer Science, 2018.
<b>Logica Prize</b>	For highest mark achieved of all students studying Computer Science in year two of my degree, 2016.
<b>O'Reilly Academic Prize</b>	For highest mark achieved of all students studying Computer Science in year one of my degree, 2015.
<b>Dean's Commendation</b>	Awarded by the Dean of Taught Programmes in recognition of my first year performance, 2015.

---

## Experience

### Sep. 2018 - Current Machine Learning Engineer @ Bioepic Ltd

My first graduate role – I applied my problem-solving skills and ML knowledge to a challenging biotech domain predicting blood glucose from a phone camera, developing an understanding of glucose-based physiology, signal processing and a robust scientific method in a fast-paced and collaborative agile environment with like-minded people. This role had a strong research focus, allowed me to embrace multiple real-world software development practices and brought me to a proficient level with MATLAB.

### Summer 2017 Casual laptop repair

I applied the skills learned in my previous shadowing work to carry out some casual paid work fixing laptop hardware and software issues for friends of friends, learning to work autonomously and with responsibility.

### Summer 2016 Shadowing an IT manager in the Devon area

Supporting an IT manager who handles several small business's computers and servers, learning how to effectively describe IT problems in the workplace, developing a professional demeanour and applying a disciplined problem solving approach to practical, real world computer problems successfully.

---

## Key Skills

- |                               |                                 |                           |
|-------------------------------|---------------------------------|---------------------------|
| ➤ Supervised learning methods | ➤ Unsupervised learning methods | ➤ Evolutionary Algorithms |
| ➤ Vision and Image Processing | ➤ Data Manipulation             | ➤ 3D Graphics/Physics     |
| ➤ Natural Language Processing | ➤ Population Modelling          | ➤ Signal Processing       |
| ➤ Combinatorics               | ➤ Linear Algebra                | ➤ Microsoft Office        |

Experienced with: Python, MATLAB, Java, ActionScript 2, VB6.  
Familiar with: C, C++, C#, Prolog, Haskell, HTML5, CSS3, JS, PHP, MySQL

References are available on request

---

## Hobbies and Interests

Programming in my free time working on personal projects; graphic design (including some voluntary work for online forums); playing guitar/piano/singing; drawing; competitive multiplayer online games; board games, spending time with family and friends, going to the gym.