

# EDWARD PEARCE

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## EDUCATION

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### **The University of Sheffield, PhD in Mathematics**

*October 2016 - Present*

Supervisor: Dr. Paul Johnson

### **University of Warwick, MMath Master of Mathematics**

*October 2012 - July 2016*

First Class Honours. 92.8% overall; top 2% in a class of  $\approx 300$ .

### **Teaching Responsibilities**

*October 2015 - Present*

University of Sheffield: Lead demonstrator in support classes on topics including:

Core maths for mathematicians (MAS114) and engineering majors (MAS140); Beginner and intermediate programming in Python, LaTeX, and HTML (MAS115/212); Introductory R for statisticians.

University of Warwick: Small group supervisor for 2x5 1st year mathematics students

## EXPERIENCE

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### **Health Data Insight**

*July 2019 - September 2019*

*Cancer Data Analyst*

*Cambridge, UK*

- Using Python and SQL for data extraction, automating statistical tests, visualization
- Building a framework to analyse synthetic datasets of patient tumour records
- Presenting results to HDI board members and Public Health England stakeholders
- Chairing Analysts East team meeting; organising social events (group meals, punting)

### **TAS Services Ltd**

*July 2016 - September 2016*

*Research Analyst*

*Hong Kong*

- Using Python for web scraping, data analysis and interfacing with SQL and mongoDB
- Automating data comparison across multiple sources for accurate data management
- Linking databases and preparing data for statistical modelling
- Discovering a new culture through international work experience

### **Warwick Maths Society**

*February 2014 - April 2016*

*President (2015/6) & Sponsorship Officer (2014/5)*

*University of Warwick*

- Managing a team of 15 exec members, chairing meetings, and organising events of varying sizes for our 900-strong membership, including external trips, summer BBQ
- Secured two new sponsors for the society, increasing sponsorship funds by 100%
- Presenting at the Warwick Imperial undergraduate conference on my URSS summer research project.
- Delivered a revision lecture on linear algebra to over 200 of my peers

## ADDITIONAL SKILLS

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### **Computer Languages**

Python (pandas, scikit-learn, Tensorflow, Plotly), SageMath, C (OpenMP, CUDA), R, Java, Matlab, Mathematica, Magma

### **Databases**

MySQL, Oracle SQL, mongoDB

### **Tools**

LaTeX, git, Unix shell (bash), Hugo

### **Languages**

English (native), Mandarin Chinese (Limited working proficiency)

### **Interests**

Chinese films, Hot Yoga, Theatre (Shakespeare), Hiking (Peak District)