

# Danny Williams

<https://www.linkedin.com/in/dannyjameswilliams/>  
[dan@danmat.co.uk](mailto:dan@danmat.co.uk)

## EDUCATION

### COMPASS CDT

#### UNIVERSITY OF BRISTOL

Started studying in September 2019

### MMATH MATHEMATICS

#### UNIVERSITY OF EXETER

Graduated with First in 2019

### A LEVELS

#### IVYBRIDGE COMMUNITY COLLEGE

Maths - A\*

Physics - B

English literature - B

## ASSESSMENTS

### UNDERGRADUATE

Analysis

Statistics

Statistical Modelling

Climate Research

Air Quality Research

Computational Non-linear Dynamics

Extreme Value Theory

### POSTGRADUATE

Statistical Computing

Bayesian Modelling

Statistical Proofs

## SKILLS

### PROGRAMMING

MATLAB • R • Python •  $\text{\LaTeX}$

### PROFESSIONAL

Report Writing • Project Work •

Presenting • Retail • Cash Handling •

Customer Service • Sales

### PERSONAL

Teamwork • Responsibility • Critical

Thinking • Organisation • Analytical •

Time Management

## REFERENCES

Available upon request

## STATEMENT

Currently a first year PhD student on the COMPASS CDT in Bristol, studying computational statistics and data science. Passionate about the environment and how I can employ my skills to make an impact on the world. Outside of work, I enjoy weightlifting, tennis and intense one-versus-one sports - anything I can focus and improve on.

## RESEARCH

### DOWNSCALING EXTREMES OF PRECIPITATION

#### UNIVERSITY OF EXETER | MASTERS PROJECT 2019

Calculated the worst-case scenario for precipitation events across the south west. Modelled the relationship between spatial location, elevation and these rainfall extremes, and quantified the difference between gridded model output and observations.

**SKILLS:** R • GENERALISED ADDITIVE MODELS • EXTREME VALUE THEORY • REPORT WRITING • PRESENTING

### POST-PROCESSING ORDINAL WEATHER FORECASTS

#### UNIVERSITY OF EXETER | SUMMER PLACEMENT 2018

Investigated temporal patterns in the forecasting of total cloud cover - measured discretely and predicted continuously. Developed methodology to detect an underlying signal hidden between observations and forecasts. With collaboration from the Met Office.

**SKILLS:** BAYESIAN MODELLING • R • JAGS • DATA FORMATTING • PRESENTING

### CALCULATING OCEAN HEAT CONTENT

#### READING UNIVERSITY | SUMMER PLACEMENT 2017

Using data for ocean temperature measurements from 1900 to 2015 to accurately map out and plot temperature changes over the last decade, as well as report on the effect of more sparsely spread data, and how to make incomplete data reliable.

**SKILLS:** PYTHON • DATA ANALYSIS • DATA ENGINEERING • COMPUTATIONAL EFFICIENCY

## EXPERIENCE

### CUSTOMER SERVICE ASSISTANT | LIBRARIES UNLIMITED

2018 - 2019: • Varied Positions • IT Systems  
• Customer Service • Warehouse Work

### DELIVERY RIDER | DELIVEROO

2017 - 2018: • Personal Schedule • Physical Fitness  
• Customer Interaction • Time Keeping

### CUSTOMER CONSULTANT | CARPHONE WAREHOUSE

2016 - 2017: • Sales Role • Constant Communication  
• Customer Service • Simplifying Complex Technology

### LEVEL 1 TENNIS COACH | SOUTH DEVON TENNIS CENTRE

2013 - 2015: • Coaching to All Ages • Commitment to Sport  
• Physical Fitness • Teaching Complex Processes