

# MAX WILLIAMS

SW18, London, UK

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## EDUCATION

- 2017-2022     **University of Bristol, PhD, Computational Chemistry**
- 2016-2017     **University of Warwick, MSc Diamond Science & Technology, 1<sup>st</sup> Class Honours**
- 2012-2016     **University of Bristol, MSci Chemical Physics, 1<sup>st</sup> Class Honours**
- 2010-2012     **Esher College, Esher**  
A-levels: Maths (A\*) Chemistry (A) Physics (A)
- 2008-2010     **Hinchley Wood Secondary School, Hinchley Wood**  
GCSEs: 5 A\*, 6 A, 1 B

## EMPLOYMENT HISTORY

- 2021-present     **Python Engineer, mthree | on-site at Nomura, London, UK**  
Development and support of VBA/python applications and tooling
- L2 support for front-, back- and middle-office applications
  - Project management and development of prioritised projects
  - Python, VBA, T-SQL, unit and integration testing, Jira, confluence, docker, dev-ops
- 2017-2021     **Postgraduate Researcher, School of Chemistry, University of Bristol, UK**  
Data analysis, data processing and input generation using Python
- Fortran and Python knowledge self-taught within self-motivating, self-managed environment
  - Translation of experimental and theoretical concepts into software for modelling
  - Linux cli, bash scripting, ssh, cmake, python, git
- Summer 2019     **Junior Developer Intern, Interactive Scientific, Bristol**
- Prepared/converted molecular simulations for VR education tool
  - Contributed to existing tools in AGILE-like environment
  - Outreach with local school children, demonstrating the education tools
- 2018-present     **Computational Physics Demonstrator, School of Physics, University of Bristol, UK**
- Assist with conceptualisation of physics concepts for numerical simulation
  - Give assistance and troubleshoot student Python code during drop-in sessions
  - Mark and give feedback on submitted code and formal write-ups
- 2013/14     **Volunteering Matters, Heritage Camp Leader**
- Week-long volunteering summer camp for 16-25 year-olds involving cleaning and conservation of churches and cathedrals

- Responsible for planning and day-to-day running of the camp through liaison with parents, the charity and the venue staff, determining work groups and organising social activities after the working day
- Flexible leadership style to promote teamwork, enjoyment and inclusion while maximising productivity and minimising conflict

2012-2018

**Tutor, GCSE Maths**

- Punctuality, professionalism and lesson structuring to ensure confidence in value for money for parents and effective learning for students
- Time management, organisation and planning to ensure lessons run smoothly with focus on relevant areas

## OTHER DEVELOPMENT EXPERIENCE

**Fortran**

**Fortran Open MPI Wrapper Library**

Modern software development practices, git workflows, build systems, open mpi

**Full Stack**

**Online submission/processing system for IMPRESSION, ML NMR shift prediction**

Flask, google-cloud, docker, databases, web security

**Languages**

Basic knowledge of C, JavaScript

## SKILLS

**Driving**

Full, clean, driving licence

## INTERESTS

**Gym**

Fitness and personal improvement, 3-5 hours per week

**Running**

Marathon training 3-times weekly

**Chess**

Watching professional games, self-study, playing online