

MAX WILLIAMS, PhD

SW18, London, UK

email: me@maxwillia.ms

GitHub: github.com/maxwilliams94

website: maxwillia.ms

mobile: +447887392845

EDUCATION

- 2017-2022 **PhD, School of Chemistry, University of Bristol, UK**
Simulating of CVD Diamond Growth Using Kinetic Monte Carlo
- 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
- 2016-2017 **University of Warwick, MSc Diamond Science & Technology, 1st Class Honours**
- 2012-2016 **University of Bristol, MSci Chemical Physics, 1st 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, Wiley Edge | on-site at Nomura, London, UK**
Development and support of VBA/python applications and tooling
- L3 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
- 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
- 2018-2020 **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

OTHER DEVELOPMENT EXPERIENCE

- Full Stack** **Online submission/processing system for IMPRESSION, ML NMR shift prediction**
Flask, google-cloud, docker, databases, web security

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