

# MAX WILLIAMS, PhD

SW18, London, UK

email: [me@maxwillia.ms](mailto:me@maxwillia.ms)

GitHub: [github.com/maxwilliams94](https://github.com/maxwilliams94)

website: [maxwillia.ms](http://maxwillia.ms)

mobile: +447887392845

## EDUCATION

- 2017-2022 **PhD, School of Chemistry, University of Bristol, UK**  
*Simulating CVD Diamond Growth Using Kinetic Monte Carlo (FORTRAN 08, Python)*
- 2016-2017 **MSc Diamond Science & Technology, 1<sup>st</sup> Class Honours, University of Warwick, UK**
- 2012-2016 **MSci Chemical Physics, 1<sup>st</sup> Class Honours, University of Bristol, UK**
- 2010-2012 **Esher College, Esher, Greater London, UK**
- 2008-2010 **Hinchley Wood Secondary School, Hinchley Wood, Greater London, UK**

## EMPLOYMENT HISTORY

- 2022-present **Senior Software Developer, Nomura, London, UK**
- Python, docker, linux, dev-ops, jira, git, SDLC
  - Development and management of prioritised projects (business, regulatory, modernisation)
  - Scrum-master for global team of 7 developers
  - Modernisation/decomposition efforts towards cloud first/serverless
  - L3 support of bank-wide applications and processes
- 2021-2022 **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**
- Contributed to existing tools in AGILE-like environment
  - Outreach with local school children, demonstrating 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-platform, docker, document database, authentication
- Hobby** Chess "gambit" API with intention to host on AWS and build public front-end

## INTERESTS

- Callisthenics, Climbing/Bouldering**  
Fitness and personal improvement, 7 hours per week
- Chess**  
Watching professional games, self-study, playing online
- Norwegian**  
Self-study
- Software Development**  
Development of hobby projects