

Matthew Knowles

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Education

2018–Present	University of York - MMath in Mathematics. Grade: Expected 2022 Focus on Pure Mathematics, looking to do research in Algebra/Discrete Mathematics and Cyber Security
2016–2018	A-Levels at Droitwich Spa High School Extended Project Qualification: A* Mathematics: A Further Mathematics: B Physics: B
2014–2016	GCSEs A*, 4 A's, 5 B's and 2 C's Maths: A, English: B,B

Work Experience

12/10/18– 1/10/19	Student Guide (Mathematics), University of York This involves showing both parents and students around campus and answering questions they have about university life and making the transition from school to university.
29/10/17– 03/09/2018	Customer Service Assistant, WHSmith Working mainly on tills, I was a general assistant which meant doing odd jobs around the shop, shelf replenishment, banking and helping customers.
24/07/17– 18/08/17	Nuffield Research Placement with University of Birmingham School of Physics and Astronomy Spent one month researching cosmic rays, using statistical and geometrical techniques to locate potential sources of cosmic rays. The resulting report won third place at the 6 th annual HiSPARC conference at the University of Bath in 2018

Volunteering

April 2019–Present	MathSTYC - University of York I am a peer mentor for upcoming first year undergraduates, essentially providing a more informal link between them and the department.
15/11/2016– 12/05/2017	Maths Tutor at Droitwich Spa High School Tutored GCSE maths to students that were deemed to be falling slightly behind in class to bring them back up to speed.

Programming and IT

Python	I have several years of experience using Python. At GCSE I achieved an A* in the programming coursework on Python. Most of the work I have done in Python has been related to simulation of Physical systems, and mathematical modelling.
Java	Studied Java at university, less familiar to me than Python but very comfortable.
\LaTeX	Started using \LaTeX during my GCSEs, this includes writing research papers and other documents such as research proposals, presentations (beamer) and this CV.
R	I studied R at university, and have done multiple pieces of coursework using it. I am very familiar with this language
Web	I have worked with standard HTML/CSS as well React.js
Linux	I am very familiar working in Ubuntu, and some experience in Kali.
Miscellaneous	I am proficient in using tools such as Git, and Vim.

Communicative Languages

English	Native Proficiency
Norwegian	Intermediate Proficiency (B1/B2)
Bokmål	
Russian	GCSE Grade B (A1 Level)
German	GCSE Grade C (A1 Level)

Conferences

02/07/18	Presented at the 6 th Annual HiSPARC Conference, University of Bath. Research was presented from my Nuffield Research Placement
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Other/Misc

Other interests include:

- Cricket: I play cricket for University of York Mens Cricket Club
- Hockey: I play hockey for my college's hockey team - Halifax College Hockey Club
- Distance Running: I am a self-coaching marathon runner, aiming to debut at the 2020 Yorkshire Marathon
- Several interests in the field of Computer Science, such as human-computer interaction, algorithms, machine learning and cyber security.
- I am a keen linguist, to date have studied several modern and archaic languages

References

Dr Benoit Vicedo
Department of Mathematics, University of York
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