

Jamie Somers

Student of Applied Physics at Dublin City University

Contact

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Personal Profile

Third Year Applied Physics student at DCU, who is experienced in problem solving and lab skills techniques with an emphasis on photonics. I have a very strong mathematical ability, and am well versed in lab safety thanks to my background in microbiology. In my free time I run a small personal website that I coded myself, this helps to improve my programming and writing skills.

Education

2019 - Present • **B.Sc** in Applied Physics • **Dublin City University**

Personal Tutor: Dr. Enda McGlynn

Emphasis on light and optical physics, programming and physical chemistry

Work Experience

March, 2021 - Present • Research Project Assistant • **ADAPT Research Centre & DCU**

Advisors: Aidan O'Driscoll

- Facilitate two brain storming sessions.
- Assist schools in creating AI modules.
- Manage a showcase for careers in STEM.
- Supervise creation of AI learning material.

June, 2021 - Present • Summer Research Intern • **Dublin City University**

Advisors: Dr. Karsten Fleischer

- Create maps to visualize inhomogeneities.
- Data interpolation for spatial co-ordinates.
- Write python scripts (calculation / spatial).
- Auto- Conversion of various data formats.

Second Year Exam Results

PS260	Physics Laboratory IV:	95%	PS207	Nuclear Physics & Relativity:	79%
EE223	Digital & Analog Electronics:	88%	PS213	Space Science and Technology:	65%
CA247	Advanced Programming:	84%	PS202	Electromagnetism:	62%
PS204	Solid State Physics I:	83%	PS223	Methods of Classical Mechanics:	60%
PS258	Physics Laboratory III:	82%	MS221	Calculus of Several Variables:	55%
PS201	Quantum Physics I:	80%	MS200A	Linear Mathematics:	47%

Skills

Programming: Experience using Arduino, Python, MATLAB, HTML, PHP, Javascript, CSS, C++, Matplotlib, NumPy, ScientificPython, SciPy, SQL, Tkinter, CSV, HTTP, SSL, Github and \LaTeX .

Software: Adobe Photoshop, Microsoft Office suite (Word, Excel, Powerpoint etc.), iOS suite (Pages, Numbers, Keynote etc.), Apache2, Digital Lab Notebook, Geogebra, Linux, Android.

Other: Experience working in a sterile lab environment handling bacteria such as *Bacillus subtilis* & *Streptococcus aureus*. Experience working with a Spectrophotometer and high powered microscopes. Experience working in a lab with radioactive material (Barium-137).

Qualifications and awards

- 2021 - 2nd Year Mentorship Certificate awarded by DCU Career Service
- 2021 - Career and Workplace Skills Certificate awarded by DCU Career Service
- 2019 - Level 5 Certificate in Lab Tech. with Distinction awarded by Coláiste Dhulaigh PLC
- 2018 - Certificate of Endeavour, awarded by Beneavin De La Salle College
- 2018 - Certificate of Co-operation, awarded by Beneavin De La Salle College
- 2017 - Experimenting with Optics summer workshop by DCU
- 2015 - Scholar Medal, awarded by Beneavin De La Salle College
- 2014 - Scholar Medal, awarded by Beneavin De La Salle College
- 2013 - Secondary School Achievement **Scholarship**, awarded by AXA Insurance

Extracurriculars

- 2020 - Present Personal Website Administration.
- 2019 - Present Associate Member of the Institute of Physics.

References

Dr. Enda McGlynn, Personal Tutor, Dublin City University, Glasnevin, Dublin 9
enda.mcglynn@dcu.ie

Dr. Kevin Dowling, Year Head, Coláiste Dhulaigh, Coolock, Dublin 17
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