# Justin Case

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## Education

2019 – to date: Maynooth University, Maynooth, Co. Kildare.

**B.Sc. (Honours) Chemistry and Experimental Physics**

Expected Result: *2.1 Honours*

Third Year: Chemistry and Experimental Physics

Second Year: Chemistry, Experimental Physics, Mathematics

First Year: Chemistry, Experimental Physics, Mathematics, Computer Science

**Relevant Skills**

# Laboratory Experience

* Synthetic Organic and Inorganic Chemistry, Physical and Analytical Chemistry
* Synthesis under Inert Conditions,
* Distillation and Rotary Evaporation,
* Purification and Crystallisation of Compounds,
* Melting Point Determination,
* Analytical Chemistry, Preparation of Standards, Calibration Curves and Data Analysis
* Good knowledge of Safety Procedures and the use of Material Safety Data Sheets

(MSDS) in the Laboratory.

# Instrumentation and Analytical Experience

* Volumetric and Karl Fisher Titrations
* Atomic Absorption Spectroscopy (AA)
* Differential Scanning Calorimetry (DSC)
* Infrared Spectroscopy (IR and FTIR)
* Ultraviolet and Visible Absorption Spectroscopy (UV-Vis)
* Thin layer Chromatography (TLC), Gas Chromatography (GC),

High Performance Liquid Chromatography (HPLC).

* Nuclear Magnetic Resonance (NMR)
* Electrochemistry and Cyclic Voltammetry

**Computer**

* **Chemical Drawing Packages** - ISIS Draw
* **Computer Applications** - extensive experience with spreadsheet and graphical analysis packages, Microsoft Office suite

**Organisation/Administration**

* Keen attention to detail in recording relevant information and maintaining data files
* Relevant research prior to commencement of project
* Planned activities to ensure that targets and deadlines are successfully met
* Experience multi-tasking and working on own initiative in a variety of settings

**Research**

* Accessed and reviewed relevant archives and literature papers
* Carried out an independent research project.
* Completed a thesis and gave a research presentation.

**Team working**

* Constant team-working to ensure efficient workings of projects
* Liaised with other professions at various stages of project

**Instructional**

* Private tuition to Leaving Cert. Students,
* Lab Demonstrations during Maynooth University Open Days (Nov 2021)

#### Other Qualifications

* Completed First Aid course (2021)

##### Vacation Employment

Summer 2021 Pfizer, Newbridge, Co. Kildare

**Assistant Lab Technician**

* Observed GLP/cGMP at all times
* Performed laboratory tests as per written procedures
* Prepared specimens and samples
* Operated, maintained, and calibrated standard laboratory equipment

e.g., centrifuge, titrator, pipetting machines, pH meters

* Ensured the laboratory was well stocked and resourced
* Recorded analytical results accurately and sometimes interpreted results to present to supervisor or senior colleagues
* Conducted searches on identified topics relevant to research

##### Part-Time Employment

2019 to date Gifts & Things, Maynooth, Co. Kildare

(Weekends) **Sales Assistant**

* Responsible for general upkeep and appearance of premises
* Advise customers on a wide range of products
* Arrange delivery of stock to and from the store
* Responsible for cashing-up at end of day

**Interests and Achievements**

***University:*** **3rd Year Chemistry Class Representative (2022-2023)**

* Attended Union Council and discussed any issues of concern to the class
* Reported on Union Council to the class
* Acted upon class queries as requested and liaised with relevant personnel

# Member – Chemistry Club, Maynooth University (2019 - to date)

* Attended Club meetings and events
* Volunteered to operate Society Stand on MU Clubs & Societies Day

###### Sports: GAA

###### Player Member/ PR Assistant, Sometown GAA Club (2018 to date)

* Represent club competitively at county level and national level
* Instruct junior members and coach juvenile player camps
* Promote club activities on Club Social Media accounts

***Awards:*****Academic Performance**

* + Maynooth University Entrance Scholarship - based on Leaving Certificate Results

**President’s Award – Silver (2021)**

* Presented with this award for personal achievement in the areas of physical recreation, community involvement, personal skill, and adventure project

##### Referees

Dr Ellen O’Flynn, Ms. Joan Smyth,

**Lecturer, Laboratory Supervisor,**

##### Department of Chemistry, Pfizer

Maynooth University, Newbridge,

Maynooth, Co. Kildare.

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