**Ronan Gleeson - *Curriculum Vitae* (CV)**

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***Personal Summary***

* Currently enrolled as MSc Physical Chemistry Student, University of Copenhagen, Denmark
* Pharmaceutical industry experience acting as Stability and Validation Analyst/Documentation Reviewer
* Qualified BSc (Hons) Chemistry graduate with first-class Honours grades attained
* Keen interest in chemistry research - especially in areas of computational chemistry and spectroscopy

***Education***

University of Copenhagen, Denmark : **MSc Physical Chemistry**  Sept 2021- Ongoing

* Computational Chemistry – Score: 12/12
* Projects Outside Course Scope – Implement Python program for calculating vibrational corrections – Score: 12/12
  + Devising a FORTRAN programming routine for the DALTON quantum program – Score: 12/12

University College Cork, Ireland***:*  *BSc (Hons) Chemistry*** Sept 2016 - October 2020

* Grade: 1:1 First-class Honours (> 70% First-class Honours)
* Received title of College Scholarx3 - i.e., considered for university scholarship on three separate occasions

Lab skills attained: Theoretical knowledge:

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| 100+ hours of university lab experience and proficient in practical analytical/separation methods: | * INAB laboratory accreditation systems – ISO-ISE 17025 Ireland |
| * High-Performance Liquid Chromatography (HPLC) | * Health and Safety Standards (Work Act 2005 Ireland) |
| * Gas Chromatography (GC) | * Infrared (IR) spectroscopy spectra |
| * Ultra Violet (UV) analyser | * Mass Spectrometry data |
| * Proficient in wet chemistry, organic separations, and extractions | * Nuclear Magnetic Resonance (NMR) spectra |

PAL (Peer Assisted Learning) leader, University College Cork, Ireland: Sept 2018 – April 2019

* Taught core chemistry concepts to incoming Science 1st years in clusters of 2/3 students
* Programme especially aimed at students who did not study any chemistry module in high school
* Valuable teaching/presenting experience in classroom environment

Final Year Project; BSc Chemistry: Sept 2019 – May 2020

Title: “To design a tool to assess structure -property relationships and stabilities of drug polymorphs using computational chemistry” – *First-class Honours grade*

* In-depth structural and energetic analysis of crystal systems to determine structure/property relationships
* Rationalize structural origins of stabilizing interactions (i.e., Hydrogen Bonding) to determine global energetic minimums of polymorphic crystals
* Use of Density Functional Theory (DFT) framework within the “Quantum Espresso” software program to perform energetic analysis and quantify stabilizing interactions via the following workflow:
  + Perform optimization procedures to find minima
  + Classifying minima using vibrational mode analysis
  + Calculating bond lengths, bond energies etc., from optimized structures
* Qualitative visualization of bond interactions in 3-D space using “Mercury” Software

***Industry Experience***

Pinewood Laboratories, Ballymacarbry, Co. Waterford, Ireland:September 2020 – August 2021

Job Title:Stability and Validation Analyst//Documentation Reviewer

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| Job Responsibilities; |
| * In-dept working knowledge of various pharmaceutical departments e.g. Cleaning Validation, Process Validation and Stability departments * Validat new processes to ensure compliance of new production campaigns – designate OOS/OOT(s) if non-compliant * Review and amend cleaning validation documentation as per Health Authority/Ph.Eur guidelines * Perform monthly cleaning checks of manufacturing/ packaging equipment * Relay results via written reports of process/ cleaning validation regimes to department heads * Perform on-going stability analyses of products and updated department documentation * Excellent written/ verbal communication skills attained from detailing reports to management. * Continuous implementation of good documentation/ lab practices (GDP/GLP) * Thorough knowledge of data interpretation/practical aspects of analytical methods – e.g., HPLC, GC, Viscosity Meter, Particle Analyser, etc. |

***Work Experience***

*Farm Operator, Waterford Farm Relief Services, Co. Waterford, Ireland:*March 2015 – September 2020

* Tasked with carrying out important duties under minimal supervision using operator expertise/initiativee.g., milking relief of up to 400+ cows/ birthing of new-born calves/ driving high-power machinery (full Irish license)
* Retained *5+* years of experience in the hard-working and laborious agricultural sector

***IT & Language Skills***

* Proficient in Microsoft Office software package: Word, PowerPoint, Excel, Outlook
* Proficient in LaTeX software
* Understanding of Python programming language (self-taught)
* Understanding of FORTRAN programming language
* Fluent in English
* Intermediate Irish
* Basic Danish Literacy with continuing learning schedule

***Interests & Achievements***

Sports Honours

* Avid member of Sliabh gCua/ St. Mary’s Sports Club, Waterford, Ireland
* 2x U21 (B) Waterford Western and 2x County titles - 2017 (4 titles in total)
* 2xAdult Waterford County titles– 2017 and 2019
* Proven winning calibre in dynamic, team-based environments - where excellent communication/ group skills are keys to success

Leadership

* Member of committee and organiser of Sliabh gCua/ St. Mary’s Sports Club (Waterford, Ireland) annual Christmas sports team cooking fundraiser – Raise over €3000 per annum (December 2018 – Ongoing)

* Registered GAA sports referee for under 7s to under 12s – completed several courses on referee skills and player management (March 2016 – Ongoing)
* Demonstrated continuous successes throughout sports and academic career, with further aspirations of continuing this level of achievement within both amateur and professional environments

***References***

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| Prof. Stephan P.A Sauer  Head of Studies - Chemistry  University of Copenhagen,  Universitetsparken 5,  2100, Copenhagen Ø,  Denmark.  Email: [sauer@chem.ku.dk](mailto:sauer@chem.ku.dk)  *Phone: +4535320268* | Georgina Gilligan,  Stability Manager,  Pinewood Healthcare,  Waterford,  Ireland.  Email: Gilligan.georgina@gmail.com |
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