David O'Connell – Résumé

Nationality	Irish, Canadian	**Mobile Phone**	+44 7380 152146
Languages	English, French	**Email**	david.oconnell.tcd@gmail.com

Personal Profile

Resourceful and self-motivated programmer with a focus on data science and machine learning. Technologically-curious, creative and resourceful in problem solving. Always seeking opportunities to optimise existing systems and gain practical insights from real world data exploration.

Education

2021 - 2023 MSc Data Science
Anglia Ruskin University, Cambridge, UK

Degree Focal Points	Exploratory Analysis
	Machine Learning Techniques
	Big Data
	Non-Linear Time Series Analysis
	Deep Learning and Neural Networks

2010 - 2014 Honors BA Nanoscience; Physics and Chemistry of Advanced Materials (NPCAM)
Trinity College Dublin, Dublin, Ireland

Degree Focal Points	Nanoscience
	General Principles of Physics and Chemistry
	Semiconductor Theory and Fabrication
	Physical and Solid State Chemistry
	Thin Film and Materials Physics

Employment History

Oct 2021 - Present Charles River Laboratories, Chesterford Park, Little Chesterford, Saffron Walden, United Kingdom
Technical Specialist II - Compound Management Group, Analytics

- Managing the high-throughput analysis of chemical compounds and extracting insightful trends found in ongoing and historical projects, via SQL and Power BI.
- Creating scripting tools for data cleaning using python and analysing and reformatting using the Pandas package.
- Developing data pipelines between data sources using Linux servers (RedHat).
- Training new analysts and chairing weekly update meetings.

Mar 2020 - Aug 2021 NuChem Sciences, 2350 Rue Cohen, Ville Saint Laurent, QC, Canada
Instrument Analyst

- Performing quality control analysis using self-made Python APIs to interface with proprietary Agilent Software and extract insight into long term system performance.

- Performing data cleaning, wrangling, and aggregation (Python with Pandas) for budget forecasting and providing detailed analysis of savings and costs with visualisation.

- Monitoring, optimising and maintaining all lab instruments, company wide, including UPLCMS, lyophilisers, and flash chromatographers.

Apr 2017 - KABS Laboratories, 4500, De Tonnacour, Saint-Hubert, QC, Canada
Feb 2020 *Instrument Analyst*

- Operating, scheduling and maintaining up to 40 HPLC instruments.

- Data calibration, integration and report generating for regulatory clients.

- Rigorously adhering to FDA, Health Canada, British and European pharmacopoeia standards.

Software and Programming Skills

- **Programming Languages**

  Python 3.X
  SQL
  Bash
  R

- **Frameworks and Libraries**

  Data Science: NumPy, Pandas, Matplotlib
  Machine Learning: SciKit Learn, Tensorflow, Keras
  Databases: OracleDB, PostgreSQL, SQLite
  Distributed Systems: BigQuery, ApacheSpark, PySpark
  Enterprise: Power BI, Excel, Power Automate, Powerpoint, Word
  OS: Linux, Windows, MacOS

Interests

- **Programming**
- **Ice Hockey, Running, Cycling, Skiing, Hiking**
- **Reading**
- **Travelling**
- **Gardening**

Referees

Available on Request