

# andrewclarke

data analyst

## contact

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## languages

English mother tongue  
French working fluency  
Irish working fluency

## programming

♥ Python  
Matlab, C#

## data analysis

SQL, Power BI,  
sci-kitlearn, Clustering

## interests

**professional:** data  
analysis, software  
design, sustainable  
energy

**personal:** cooking,  
music, running

## awards

GradIreland National  
Student Challenge  
Finalist

School of Engineering  
College Scholar

## summary

Experienced, self-starting Data Analyst with several years of experience extracting useful insights for business utilisation. Adept at receiving, sanitising and monitoring data from multiple data streams, including XML, SQL, and Excel data. Proven track record of communicating data analyses to a variety of parties, including summary documents for senior management and critical operational reports. Most recently I have been enhancing my analyses with Machine Learning.

## experience

2018–2020 **Bord Gais Energy** Cork, Ireland  
*Senior Modelling Analyst*

Provided analytical and programming expertise to support daily trading operations and long term business strategy.

Detailed achievements:

- Delivered a robust programme across many programming languages, environments and APIs to run twice daily in support of business critical trading processes.
- Enhanced forecasting methodologies through the creation of an unsupervised clustering framework for electricity customers. Allowed the utilisation of machine learning in preparation for the roll-out of smart metering in Ireland.
- Reduced the future cost of wind balancing by 50% through an in depth analysis of market dynamics and regulatory changes.
- Took charge as one of the main contact points for external contractors on a large project.

2013 – 2017 **DP Energy** Buttevant, Cork, Ireland  
*Postgraduate Researcher*

Carried out a commercial role alongside the research performed as part of my postgraduate studies. Delivered cutting edge analysis to commercial renewable energy projects.

## education

2013 – Now **Doctorate** of Renewable Energy University College Cork  
*The impact of waves on Tidal Turbines*

This thesis developed a toolbox that allows for quick analysis of a tidal turbine deployed in a site which is exposed to ocean waves.

- Slashed the time and cost involved in analysing a potential site for fatigue.
- Removed the requirement for specialist intervention at the early/intermediate stage of a techno-economic analysis

2008–2013 **Bachelor** of Civil Engineering University College Cork

This degree focused on enhancing mathematical and scientific knowledge and applying this knowledge to practical applications and design.

## extracurricular

2017 **Symposium Co-ordinator** International Network Offshore Renewable Energy  
Organised a symposium for 55 early stage researchers in the offshore renewable energy.

2015 **Member** EUXCEL  
Participated in a weeklong bootcamp to encourage entrepreneurial discussion and engagement between technical and business minded students.