

# Eoin Cotter

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**Citizenship:** Irish **Australian Visa:** Working Holiday Subclass 417 (valid until 14/01/2024)

Open to contract or full-time data roles in Melbourne, I am a professional, knowledgeable, and technically proficient data analyst with breadth of experience across technologies and industries. I have an analytical mind adept at distilling complex problems into smaller parts to produce a solution. Embracing recent advances in AI, I responsibly use large language models such as ChatGPT to improve my efficiency and productivity when appropriate, while maintaining an awareness of the potential flaws and limitations of the software.

## EMPLOYMENT HISTORY

### Data Analyst (Contractor), Melbourne

2023

- Completed several fixed-term data analytics contracts across the domains of digital transformation, HR, and marketing.
- **Gathering project requirements:** meeting with management to establish project aims, scope, timeline, and technology and communication requirements.
- **Data sourcing:** liaising with employees across a multi-subsidary corporate group to source accurate payroll data; extracting large datasets from survey software.
- **Data preparation:** cleaning and transforming large datasets using Excel, SQL, and R (tidyverse).
- **Data analysis:** using Excel and R, calculating descriptive and inferential statistics, producing visualisations, and conducting power analysis.
- **Communicating results:** quantitative, visual, and narrative story-telling through Excel, R markdown, and written reports. Contributed directly to industry reports on the state of talent acquisition and digital transformation in the public sector.

### Data Analysis Research Assistant, University College Dublin CBS Lab

2021 – 2022

- Cleaned and transformed a large experimental psychology research dataset.
- Performed inferential statistics (t-test, ANOVA, correlation analysis) using SPSS.
- Reported the results and provided discussion as co-lead author of the research paper published in an international psychology journal: <https://www.sciencedirect.com/science/article/pii/S221214472200093X>
- Collected observational data according to strict guidelines on children's performance during cognitive tasks.

### Computing Assistant, IT Services, University of Galway, Ireland

2021 – 2022

- Provided face-to-face, phone, and email IT support for staff and students at the university.
- Main tasks included granting access to software, troubleshooting network issues, and providing instruction on the basics of operating systems and university software.
- Taught weekly online Excel training sessions.

### Chatbot Developer & Data Analyst, Infineon Technologies, Dublin, Ireland

2019 – 2020

- Sole developer of a .NET chatbot which was deployed globally to provide employees with efficient access to the company's supply chain information.
- Provided demonstration and support sessions for over 300 employees across North America, Europe, and Asia.
- Wrote detailed documentation and trained a non-technical manager in chatbot up-keep.
- Developed a Tableau dashboard to support supply chain decision making.
- **Tools used:** MS Azure Cloud Services (Bot Service, QnA Maker, LUIS), Bot Framework SDK for .NET (C#), SQL, Tableau.

### Teaching Assistant, Business Analytics, University College Dublin, Ireland

2019

- Conducted tutorials for 150 students per week for an undergraduate business analytics module.
- Taught theory and practical implementation (in Excel) of various statistical and computational techniques: regression, classification, clustering, time-series analysis and linear programming.
- Worked alongside UCD's Business eLearning team to create interactive digital tutorials which are now used as a teaching resource each year.

### **Transactions Advisory Services Intern, EY, Dublin, Ireland**

2016 - 2017

- Member of a small team responsible for administering individual and corporate Receiverships.
- Prepared and presented Estimated Outcome Statements to clients upon offers for asset purchases.
- Used MS Office 365 tools daily.

## **EDUCATION**

### **Higher Diploma in Psychology (1<sup>st</sup> class honours – 77/100)**

2020 - 2022

University of Galway, Galway, Ireland.

- Research-focused diploma, modules combined psychology theory and research methods.
- Achieved the highest thesis grade (82/100) out of the graduating class of 65 students.
- Thesis is currently undergoing revisions to be published in an international psychology journal.
- Thesis data cleaning, transformation, and analysis were performed in R: [osf.io/zs7gt](https://osf.io/zs7gt)

### **Master of Science in Business Analytics (1<sup>st</sup> class honours - 3.88/4.2 GPA)**

2018 - 2019

UCD Michael Smurfit Graduate Business School, Dublin, Ireland.

- Awarded Full Scholarship by the Next Generation DatSci Awards.
- **Thesis:** Process Mining Event Log Data in Healthcare (using R).
- **Relevant modules:** Programming (Python); Data Management (SQL); Data Mining (R); Machine Learning (R); Advanced Operations Research (Mosel); Business Intelligence and Visual Analytics (Tableau); Statistics and Simulation Methods (R); Metaheuristics (Python).

### **Bachelor of Commerce (1<sup>st</sup> class honours – 3.73/4.2 GPA)**

2014 - 2018

University College Dublin, Belfield, Dublin, Ireland.

- Specialised in Management Information Systems.
- **Relevant modules:** ICT in Business; Information Management; Advanced Web Development; Computational Modelling; Analytical Modelling; Business Analytics Project.

## **SELF-GUIDED PROJECTS**

I have recently committed to completing a self-guided data project each month to develop my skillset and explore areas of analytics that interest me.

- [Create a Quantified Self Dashboard \(Azure, SQL, R: shiny, ggplot, tidyverse\)](#)
- [Exploring and Cleaning Data \(Advanced SQL\)](#)
- [Create a Portfolio Website \(HTML & CSS\)](#)

## **IT SKILLS SUMMARY**

- Python and R for programming and data science
- Advanced SQL for data querying, cleaning, and exploration
- Advanced Excel for data preparation, analysis, and reporting
- Tableau for dashboards and business intelligence
- .NET web app development with C#
- Web development with HTML and CSS
- SPSS for research data analysis
- Advanced MS Office 365 in corporate and academic environments
- Mosel/FICO Xpress for modelling and operations research
- C Programming for the Internet of Things with Arduino