

Aaron Gorman
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[mygithub](#)
[mywebsite](#)

Trinity College Dublin 2020
BSc Physics
First Class Honours
Research - 'Post fabrication electrical tuning of plasmonic metasurfaces'

Proficient Python matplotlib, scikit-learn, numpy, pandas, scientific computing.

Advanced R ggplot2, Rshiny, machine learning, wide ranging data manipulation of extensive and diverse data sources. remote databases, tabular, non relational, graphs and networks feather, json, geographic standards geojson and topojson

Proficient Javascript, html and css, to just below web developer standard. Interfacing with libraries to fully exploit interactive visuals and enhance web app functionality and aesthetics.

SQL, ODBC connectors, and simple database administration

BASH, utilising the cmd line for CLI, and shell scripting

PySpark, Spark clusters, and other big data technologies to efficiently explore and model data at scale.

Cloud infrastructure, across proprietary and open source solutions. In particular data warehousing and analytics in azure's synapse product, and building out resilient and flexible product deployment solutions on AWS.

AWS Cloud Practitioner Certification
August 2021

I am interested in machine learning and algorithmic data science. Anything that can create insight and be effectively communicated back to stakeholders I hope to explore. I have conducted this in an ambitious team with a

staunchly independent work ethic, that has me driving projects, with stakeholder engagement and delivering from data acquisition to project deployment and presentation.

I'm keen to continue in this vein to exploit machine learning and effective algorithmic design across the entire data product lifecycle to create value. In particular I look to integrate a greater emphasis on end to end cloud solutions. A lot of my work in cloud ecosystems has only evidenced the importance placed on these technologies into the future.

Strategic Investment Board

- Student Data Science Analyst (summer 2018 and summer 2019)
- Data Analyst (2020 May -)

Role realising potential in datasets to inform decision makers across Public sector, including the Justice Department, Courts and Tribunals service, Department of Education and Energy management reporting. Stand out work for the Department of Health involved presenting models to the NI regional modelling group in tackling Covid19. Particularly aiding contact tracking exploit real time data pipelines to automate outbreak detection, early warning and exceedance measures, and network transmission modelling. For the department we had the responsibility of creating the first iteration public dashboard for NI vaccine progress released by the department.

- Constrained choice and optimisation modelling
 - Bayesian Modelling.
 - Stakeholder communication and engagement, dashboarding in Rshiny, PowerBI
 - Python
 - R
 - SQL
 - MS Azure
 - Public health analytics
 - NLP
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I enjoy youth outreach and science engagement. I have written on film criticism as well as advances on quantum computing to lay audiences.