

James C. Butler

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Bioinformatics PhD candidate & Marie Curie Fellow specializing in machine learning and generative AI for large-scale biological and healthcare data. Research experience with transformers, diffusion models, GANs, and statistical learning, with a strong foundation in applied statistics and interdisciplinary research.

Education/

PhD in Computer Science / Microbiology — Marie Curie Fellow, University College Cork 2021–Present

Advisor: *[Advisor name]*

Thesis: *[PhD thesis title]*

MSc Applied Statistics & Datamining (Distinction), University of St Andrews 2019–2020

Advisor: *[Advisor name]*

Thesis: *Synthetic Data for Training Convolutional Neural Networks* (18.7 / 20)

BA Economics & Visual and Environmental Studies, Harvard University 2011–2015

Selected quantitative training: econometrics, statistical methods, computational analysis

Professional Experience/

Imperial College London 2020–2021

Research Assistant — Designed and conducted statistical analyses to identify systemic issues across health and social care systems; evaluated interventions and outcomes using applied statistical methods.

DMP Statistical Solutions UK Ltd 2020–2022

Statistical Consultant — Delivered applied statistical analyses and reports for industry clients including L'Oréal; designed a custom data-driven web application for Raymond James.

Le Grand Verre Wines 2015–2019

Co-founder; CMO; Partner; President; Board Member — Built and scaled an international e-commerce business; led strategy, marketing, and fundraising; secured external investment; managed cross-border operations and partnerships.

Technical Skills/

Programming: Python, R

Machine Learning: Transformers, diffusion models, GANs, representation learning

Statistics: GLMs, multivariate analysis, hypothesis testing

Tools: Linux, Git, Shiny

Languages/

Spanish — Intermediate

Interests/

Endurance running (3 marathons, 3:13 PR), music, travel