

Rory Lambe

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PROFILE

I am a PhD candidate with a background in Physiotherapy who is hard-working and driven to produce the highest quality work possible. My strong communication and interpersonal skills enable me to flourish in team environments and I have a strong desire for continuous improvement.

EDUCATION

Insight Centre for Data Analytics, University College Dublin. 2024 — 2027

PhD, Wearable Technology and Machine Learning in Healthcare.

- Primary research involves developing an ML model to classify the heart health of individuals with cardiovascular disease using wearable data.
- Supervisors: Cailbhe Doherty, Georgiana Ifrim.
- Data science in Python with Pandas, NumPy, matplotlib and Plotly.
- Machine Learning, scikit-learn, TensorFlow.
- Biostatistics in R.
- Experience working with processed physiological time series data such as that from PPG sensors.

University College Dublin, Ireland.

2023 — 2024

Research Master's in Wearable Technology.

- School of Public Health, Physiotherapy & Sports Science.
- Investigating the accuracy of Apple Watch heart rate, VO₂ max and energy expenditure measurements.

University College Dublin, Ireland.

2019 — 2023

BSc Physiotherapy.

- EQF Level 4 Personal Trainer.

EXPERIENCE

Research Scholar, SFI Insight Centre for Data Analytics.

- Selected for a research scholarship to work on a project in collaboration with Samsung to develop an exercise app which used machine learning.

Secondary School Teacher, Coláiste Íosagáin, Baile an Bhóthair.

- Teaching 2nd and 4th year students Irish for the duration of the academic year, 2023/24.

Sports Physiotherapist, UCD Rugby.

- First-aid at pitch-side, injury prevention and physiotherapy for UCD Under 20 male and female rugby teams for the 2023 season.

ENTREPRENEURIAL EXPERIENCE

- Winner of 2024 NovaUCD Student Enterprise Competition.
- 'Claia' listed in the Bank of Ireland 'Top 100 Irish Start-ups to Watch'.
- Completed NovaUCD Customer Discovery programme.

PUBLICATIONS

1. The Validity of Apple Watch Series 9 and Ultra 2 for Serial Measurements of Heart Rate Variability and Resting Heart Rate. *Sensors*. 2024, 24, 6220.
2. An Evaluation of the effect of app-based exercise prescription using RL on satisfaction and exercise intensity: a randomised crossover trial. *JMIR mHealth and uHealth*.

PROGRAMMING LANGUAGES

Python

- Pandas, matplotlib, Plotly, NumPy, Seaborn, scikit-learn.

HTML 5 and CSS 3

- Experience of designing several static websites.

LANGUAGES

- Irish: Bilingual fluency
- French: Professional working fluency
- Spanish: Conversational fluency