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Machine Learning on Health Data from Wearables

University of Southampton > Faculty of Engineering and Physical Sciences

Dr Zhiwu Huang Friday, October 31, 2025

Competition Funded PhD Project (Students Worldwide)

- Southampton
- United Kingdom
- Artificial Intelligence
- Bioinformatics
- Computer Vision
- Machine Learning

About the Project

Supervisory Team: Dr Zhiwu Huang, Dr Kate Farrahi

This PhD project focuses on developing advanced machine learning methods to transform wearable biosignal data, like heart rate, activity levels, and sleep patterns, into actionable health insights.

The successful candidate will work on critical challenges, including data heterogeneity from various biosignal sources, real-time processing for immediate insights, and personalization to accommodate individual health variations.

Joining this project provides an opportunity to work within a multidisciplinary team at the forefront of digital healthcare research, contributing to the creation of impactful, user-centered health monitoring solutions.

This project is ideal for candidates passionate about wearable health technology, machine learning, and personalized healthcare. Outcomes will contribute to better disease prediction, improved health management, and more responsive healthcare in a digital era.

Entry Requirements

You must have a UK 2:1 honours degree, or its international equivalent, with a strong foundation in mathematics.

You should have programming skills, and a passion for research.

Experience with machine learning, computer vision, or healthcare technology will be beneficial.

How To Apply

Apply online: [Search for a Postgraduate Programme of Study \(soton.ac.uk\)](#).

You need to:

- choose programme type (research), 2025/26, Faculty of Engineering and Physical Sciences
- please select if you will be full time or part time
- choose the relevant PhD in Computer Science
- add name of the supervisor in Section 2

Applications should include:

- research proposal
- CV (resumé)
- 2 reference letters
- degree transcripts to date

Funding Notes

We offer a range of funding opportunities for both UK and international students. Horizon Europe fee waivers automatically cover the difference between overseas and UK fees for qualifying students.

Competition-based Presidential Bursaries from the University cover the difference between overseas and UK fees for top-ranked applicants.

Competition-based studentships offered by our schools typically cover UK-level tuition fees and a stipend for living costs (minimum of £19,237 in 2024-25) for top-ranked applicants.

Funding will be awarded on a rolling basis, so apply early for the best opportunity to be considered.

References

- <https://www.southampton.ac.uk/people/62bxzm/doctor-zhiwu-huang>
- <https://www.southampton.ac.uk/people/5xkhzr/doctor-kate-farrahi>

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First name

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Email address

Dialling code Optional Telephone number Optional

Message

Country of residence

Nearest city

Nationality

Which age group are you? Optional

18-21 22-25 26-31 32-45 46-65 66+

I prefer not to say

Register interest

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The University of Manchester
- [Fast Identification of Deformation Mechanisms from HRDIC data using Machine Learning](#)
The University of Manchester
- [Quantum Machine Learning from Quantum Data \(C3.5-MPS-Kyriienko\)](#)
University of Sheffield

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