

# DIGITAL HEALTH AT TE HERENGA WAKA—VICTORIA UNIVERSITY OF WELLINGTON



Optimising knowledge resources and knowledge sharing to create innovative and integrative solutions is important. Key aspects include context, connection, and collaboration. Here at Te Herenga Waka—Victoria University of Wellington, we have a strong, interdisciplinary focus on digital health.

Our research interests span big data, machine learning, gaming and behaviour change, mental health, health promotion, virtual reality, clinical decision-making software, equity, and more. We continue to build on our strengths in Māori health and equity as well as design, development, and testing to deliver health impact.

Our interdisciplinary focus in digital health spans the university's expertise from the Wellington Faculty of Health, the School of Engineering and Computer Science, the School of Design Innovation, and the Wellington School of Business and Government. We work with a range of communities to ensure research and innovation delivers the greatest impact.

## CURRENT AREAS OF DIGITAL HEALTH RESEARCH

### BIG DATA AND ARTIFICIAL INTELLIGENCE

Using data and artificial intelligence to get ahead of health issues, such as building models to predict disease or monitoring vaccine rollout.



### TELEHEALTH AND DIGITAL TOOLS FOR MENTAL HEALTH

This research explores the impact of internet use, digital healthcare delivery, and gaming on mental health and asks how it can be used to support wellbeing.



### VIRTUAL REALITY FOR HEALTH

Exploring applications of virtual reality in a health setting such as a training tool in radiation therapy, use during labour, reducing anxiety in the waiting room, and for patient pain relief.



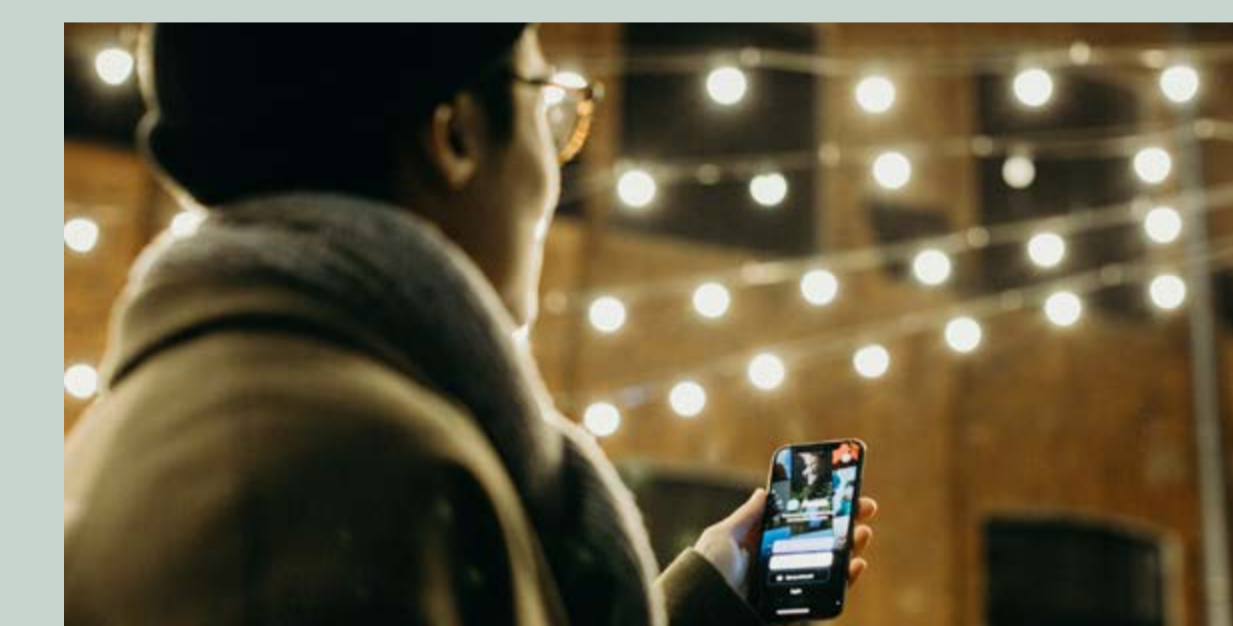
### INTERACTION DESIGN IN HEALTH

Digital interactions and physical devices assisting in the treatment of diseases and disorders, such as improving the MRI experience.



### DIGITAL HUMANITIES

Developing a critical understanding of digital technologies, their relationship to culture and society, and applications. Research includes understanding the digitisation of diagnosis and how digital technologies (and social media in particular) are shaping the way we understand and pursue health and wellbeing.



### INTEGRATING DIGITAL SURVEYS AND INTERVENTION

Investigating methodologies for integrating opt-in digital interventions to online health surveys, using the Youth19 survey as a case study.

