

Grant Trewartha

PhD · BSc · FHEA · AgilePM

R&D Leader — Academic & Industry Expertise

Applying a broad skillset to health innovation and technology development

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80+

RESEARCH ARTICLES

33

H-INDEX

>£1.6M

RESEARCH FUNDING

6

PATENTS

01 EXPERIENCE

Experience

2023 — Present

Teesside University

Professor of Digital Health Interventions

- Research on 1) remote patient monitoring of balance and falls risk and 2) AI clinical decision support including AI Triage
- External funding from Academy of Medical Sciences, NIHR and EPSRC
- REF Unit of Assessment 3 Lead; Co-Director of Centre for Healthcare Innovation
- Mentor for Early Career Researchers, PhD Supervisor (3 students)

2016 — 2023

NURVV Ltd

Head of Research

- Led R&D for wearable technology products in sport and healthcare; shaped strategy and product roadmap
- Co-created sensor algorithms and app features; developed 6 patents on smart insole technology
- Directed product testing programs with external partners across sensor durability and environmental testing, metrics validation and user acceptance

2001 — 2016

University of Bath

Reader / Associate Professor / Assistant Professor

- 80+ articles, 120+ presentations, H-Index 33; £1.5M research funding secured (2005–2016)
- Led Injury Prevention Research Group — international sports policy impact; Universities UK "Made at Uni" award
- Supervised 13 PhD, 20 MSc, 80 BSc students; Programme Director BSc/MSci Sports Science

02 EDUCATION & QUALIFICATIONS

Education & Qualifications

Jan 2026

AI in Healthcare Executive Program

MIT Sloan School of Management

May 2016

Agile PM Foundation & Practitioner

APMG International

July 2001

PhD in Biomechanics

Loughborough University — "Marker-free Tracking of Human Motion"

July 1997

BSc Sports Science — First Class Honours

Loughborough University

03 CORE COMPETENCIES

Core Competencies

- **Innovation, Strategy & Process**
 - Full product development lifecycle from ideation through market delivery
 - Qualified AgilePM practitioner; Agile processes embedded at NURVV
 - Securing external funding; effective stakeholder and investor liaison
- **Managing & Mentoring People**
 - Built diverse R&D teams through open culture and structured 1-to-1s
 - Extensive mentoring of early-career researchers and degree-level students
 - Cross-functional collaboration: product, engineering, firmware, app and marketing
- **Leading Research & Development**
 - Interdependent product testing programs across external partner networks
 - Applied research with quantifiable real-world policy impact in sport/healthcare
 - Live integration of AI Triage in NHS settings (Visiba Ltd collaboration)
- **Data Science & Programming**
 - Python (Pandas, NumPy, Scikit-learn); 20 years Matlab; R; signal processing
 - ML/AI: hierarchical clustering and neural networks for biomechanics; PGM for AI Triage
 - Anvil web apps, Kotlin, Claude Code / AI tooling — developing aptitude

04 TECHNICAL SKILLS

Technical Skills

INDUSTRY KNOWLEDGE

- R&D Leadership
- Agile PM
- Wearable Technology
- Remote Patient Monitoring
- Management & Mentoring
- Product Development
- Media / Investor Pitches

TECHNICAL & SCIENTIFIC

- Python
- Matlab
- R
- ML / AI
- Multimodal AI Triage
- Biomechanics Measurement
- Signal Processing & Statistics
- OpenSim – MSK Simulation
- Claude Code

ADDITIONAL

- Product QA & UX Testing
- App Feature Logic & UI
- Presentation Skills
- Mobile App Development
- Physical Computing
- Blender / Maya
- Sport Coach – Cricket & Football

05 CURRENT PROJECTS

Current Projects

Unobtrusive Clinical Decision Support Tools

01 *EPSRC NorthFutures*

Frailty Virtual Wards

Remote monitoring and AI clinical support for patients at home using wearable biosensors, enabling proactive intervention without hospital admission.

03 *NIHR Team Science*

Community Integration post Hip Fracture

Examining social and community integration measures as part of hip fracture recovery, capturing what matters most to patients during return to daily life.

02 *Academy of Medical Sciences / Visiba Ltd*

AI Triage Models

Integrating multimodal physiological, contextual and symptom data to improve care navigation, urgency triage and diagnosis support in live NHS settings.

04 *NIHR / Teesside University*

COPD Balance

Investigating balance recovery mechanisms and interventions for people with COPD using musculoskeletal simulation and wearable sensor data to characterise postural control deficits.