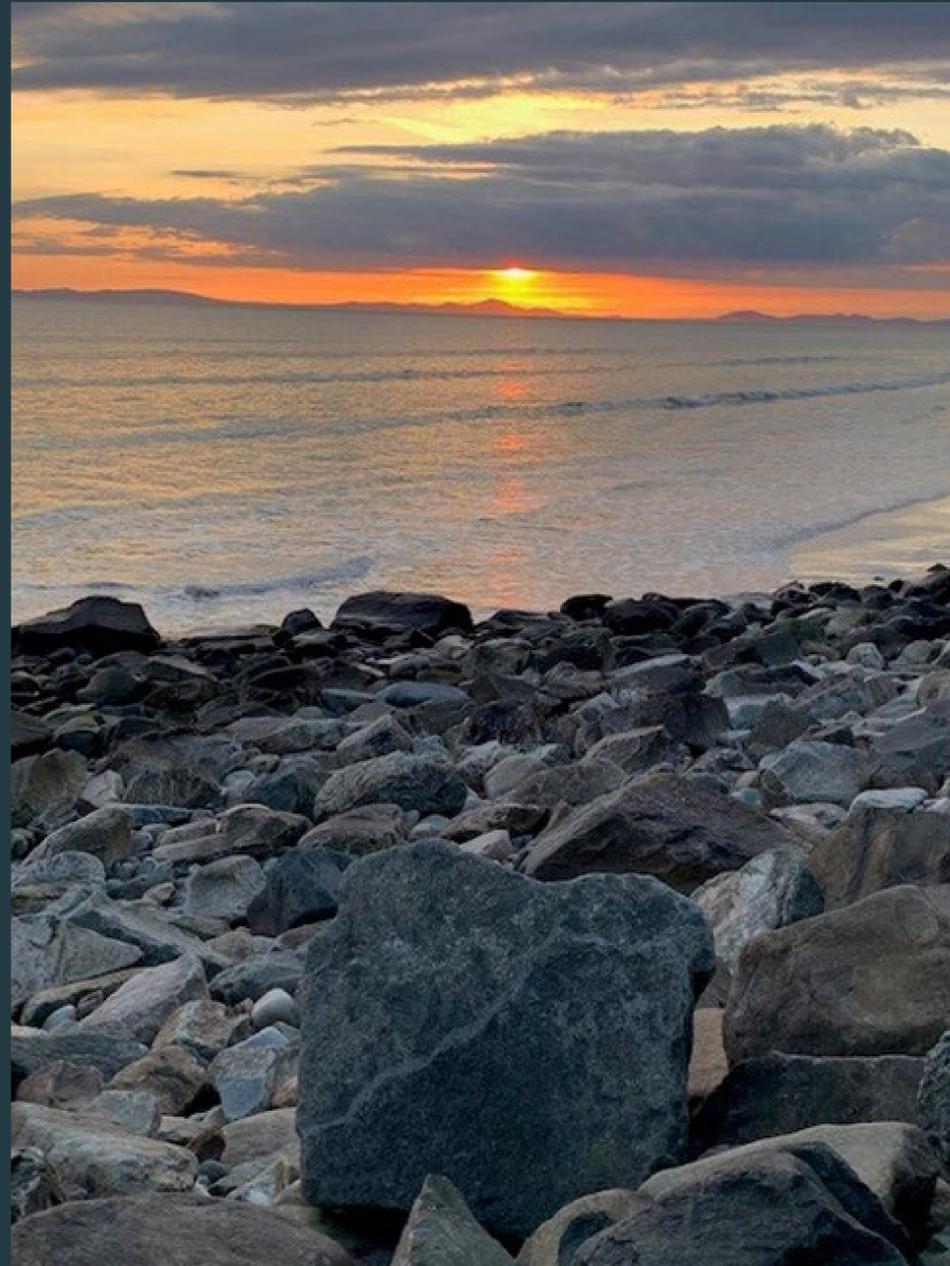


BNU Research on a Postcard

Evaluating the impact of a self-care thread in an undergraduate Midwifery programme



1:

Carla Jayne Avery

**Associate Professor for Midwifery and Lead Midwife
(School of Nursing and Midwifery)**

Midwifery education is multifaceted, and educators have a twofold responsibility as NMC registrants. We have the duty of care to women, newborns and families as part of our Code (NMC, 2018), and as the LME, the researcher has direct responsibility within the HEI for this provision.

Literature shows direct correlation of student wellbeing and student outcome, so in turn makes sense to ensure that this is threaded and prioritised throughout their undergraduate programme to ensure the safety of women, newborns and families.

Literature is sparse on the impact of wellbeing on student midwives, and this study aims to add to the literature, of this vital element of healthcare programmes, specifically midwifery education.

BNU Research on a Postcard

Policy Regulations to Capture Organization's Digital Carbon Footprint: Introducing the Concept of Cybersecurity Footprint to Reduce Organization's Digital Carbon Footprint



2:

Dr Indrachapa Bandara
Research Assistant
(Research and Enterprise Directorate)

Climate change and cybersecurity are increasingly urgent issues linked to the rise of digital technologies. The ICT sector, accounting for about 1.4% of global emissions, is projected to reach 1.97% by 2030. This expansion enhances the digital attack surface, benefiting cybercriminals. The research presents the Integrated Cybersecurity and Carbon Footprint Optimization procedure, which aligns carbon reduction with cybersecurity through cooperative strategies like using cloud storage instead of email attachments. It delves into the implications of the 'cybersecurity footprint' across societal levels and underscores the integration of digital carbon considerations into corporate strategies, promoting sustainable, secure data management.

BNU Research on a Postcard

Breaking and Paris 2024: Exploring Breaking's Olympic Judging System



3:

Sonja Cimelli

Postgraduate Research Student

In reverence to its Ancient Greek origins, Pierre de Coubertin championed the convergence of sport, art, and culture in the revival of the Modern Olympics. This summer, Olympism will merge with hip hop culture when breaking (breakdancing) debuts as an Olympic sport in Paris, the birthplace of Coubertin. These athletes will fly the flag for hip hop under the banner of Olympism. For breaking, the challenges of Olympic inclusion are further complicated by the controversies associated with judging artistic sports. This research examines the influence of breaking's novel Olympic judging system on its evolution from artistic subculture to mainstream artistic sport.

BNU Research on a Postcard

The women eat last: Traditions, manners, and gender narratives at the Romanian dining table



4:

Alexandra Constantinescu
Senior Lecturer

(Missenden Abbey International Hotel and Hospitality School)

This study adopts a qualitative research methodology, and uses semi-structured interviews to identify changes in, and the evolution of, traditions, manners and gender role narratives at the contemporary Romanian dining table. The findings suggest that with regards to rules and rituals in the context of family dinners, Romanian society still maintains a rather conservative, traditional attitude, with clearly defined gender roles. Although less prominent now, the acts of cooking and serving the food are still mostly regarded as exclusively feminine pursuits. It is important to acknowledge that these perceptions are changing, as societal attitudes toward gender roles continue to shift, with more individuals challenging traditional norms and engaging in cooking and domestic duties regardless of gender.

This image was generated using Microsoft Copilot under the BNU Institutional licence.

BNU Research on a Postcard

Children in Care Who Are Sentenced to Custody: Is There Anything Distinctive About Their Life Histories and Why Did Interventions Fail?



5:

Dr Maria Ansbro

Senior Lecturer

(School of Health and Social Care Professions)

Teresa Cox

Lecturer

(School of Health and Social Care Professions)

This research considers factors that contributed to the imprisonment of children who were in the care of the Local Authority at the time. Case records held by Social Services and Youth Justice were analysed to chronicle their individual life histories and professional intervention. The findings highlight common issues of social deprivation, domestic abuse and child abuse. Two recurrent themes also identified were that diversionary techniques were ineffective for young people involved in 'County Lines' drug dealing. Resources were frequently allocated at a point when problems were most extreme. This intervention incurred exorbitant costs and achieved relatively limited results. The findings indicate the necessity for more targeted less expensive interventions to occur much earlier.

BNU Research on a Postcard

Evaluating the Impact of Data Analysis Methods on Accurate Tree Biomass Estimation



6:

Ioan Dutca

Research Fellow

(Research and Enterprise Directorate)

This project investigates how different data analysis methods impact tree biomass estimates. Researchers often use logarithmic transformation to relate tree size and weight, but this method isn't suitable for all data types. By using virtual tree populations with varying data characteristics, we examined the effects of using logarithmic transformation on data that should be analyzed differently. The study found that this approach led to biased estimates, overestimating tree biomass by up to 2.5%. These findings highlight the importance of choosing the correct analysis method for accurate predictions in forest ecology.

BNU Research on a Postcard

Concrete Dreams of Sound

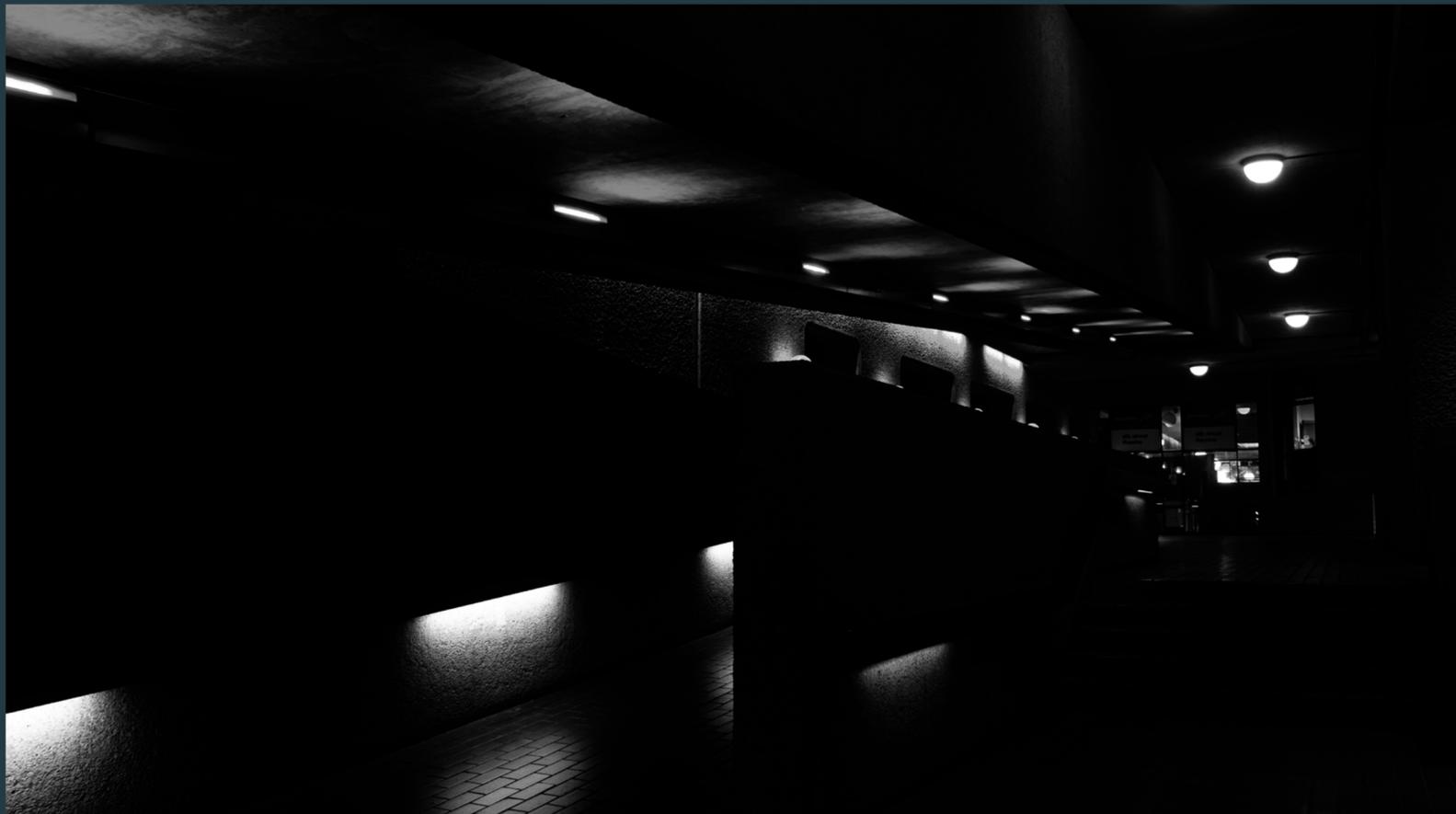
7:

Gerard Gormley
Senior Lecturer

(School of Creative and Digital Industries)

Concrete Dreams of Sound explores the possibilities of a music that is born of, and dwells in, architecture. While many musical works explore the acoustic properties of architectural spaces, Concrete Dreams of Sound asks what music could be if it not only reflected architecture but was returned to it; made a part of it; belonged to it. Recorded and produced over a period of several months in 2023, Concrete Dreams of Sound entailed a detailed vibrational and acoustic exploration of The Barbican, an iconic Brutalist complex in London that embeds the utopian spirit of postwar modernism in architecture. This process entailed making sonic and vibrational recordings using a variety of instruments and sensors that capture airborne vibrations (sounds, echoes, and resonances in air), structure-borne vibrations (recording vibrations through walls, floors and surfaces, including of the Barbican's famous patented concrete), underwater recordings in ponds and water features around the complex, as well as sounds and acoustic reflections in locations throughout the site: stairwells, hallways, alleyways, elevator shafts, basements, and more.

These sounds were later returned and played back into those spaces, creating layers of architectural resonance and acoustic response. This process reveals sound as it materializes in relation to architecture. And, it reveals architectural spaces and materials as they are made perceptible in sound. A violin, which appears throughout the album, is used not as a musical instrument in the traditional sense, but rather as a device for activating architectural responses and mapping out spaces. We hear the micro-textures of building materials as they mediate sound and also receive it; we hear the concrete-ness of concrete and the glassiness of glass. As such, Concrete Dreams of Sound is music of and for architecture. It imagines architecture both as a listening device and as a listener: as something to listen to, and with, and as a thing that listens.



BNU Research on a Postcard

Revolutionise Fashion AI powered recommendation system for sustainable style.



8:

Dr Shahadate Revzy

Senior Lecturer

(School of Creative and Digital Industries)

Sihan Haroon

Associate Lecturer

(School of Creative and Digital Industries)

Our research introduces an innovative AI - powered recommendation system that revolutionises sustainable fashion consumption. By integrating machine learning models like LongShort - Term Memory (LSTM) networks for sentiment analysis and neural collaborative filtering with embeddings and multi-layer perceptron's, we provide personalised recommendations aligned with individual preferences and eco-friendly values. Despite limited data, our system achieves 98% accuracy in predicting customer sentiment and recommending relevant sustainable clothing. This research represents a significant step towards driving the adoption of eco-friendly fashion choices and paves the way for a more sustainable future in the industry. Future work will focus on expanding data sets, integrating real - time data, and exploring explainable AI techniques to further enhance the system's effectiveness.

BNU Research on a Postcard

Marine Decarbonisation: Innovate and Lead

9:
Professor Florin Ioras
Director
(Research and Enterprise Directorate)

The research, which was directed by Professor Florin Ioras, explored different strategies to reduce carbon emissions and provided clear guidelines for recreational marinas. It was published under the title “Comparative Study of the Environmental Footprints of Marinas on European Islands,” and it promoted the dissemination of best practices and advocacy guidelines, thereby facilitating the interchange of knowledge. In an effort to combat climate change, the project reduced greenhouse gas emissions, which had an impact on the United Kingdom, Spain, and Portugal. In Europe’s leisure boating industry, these countries have adopted energy-efficient technologies, biodegradable products, and user education, which has catalysed environmental stewardship.



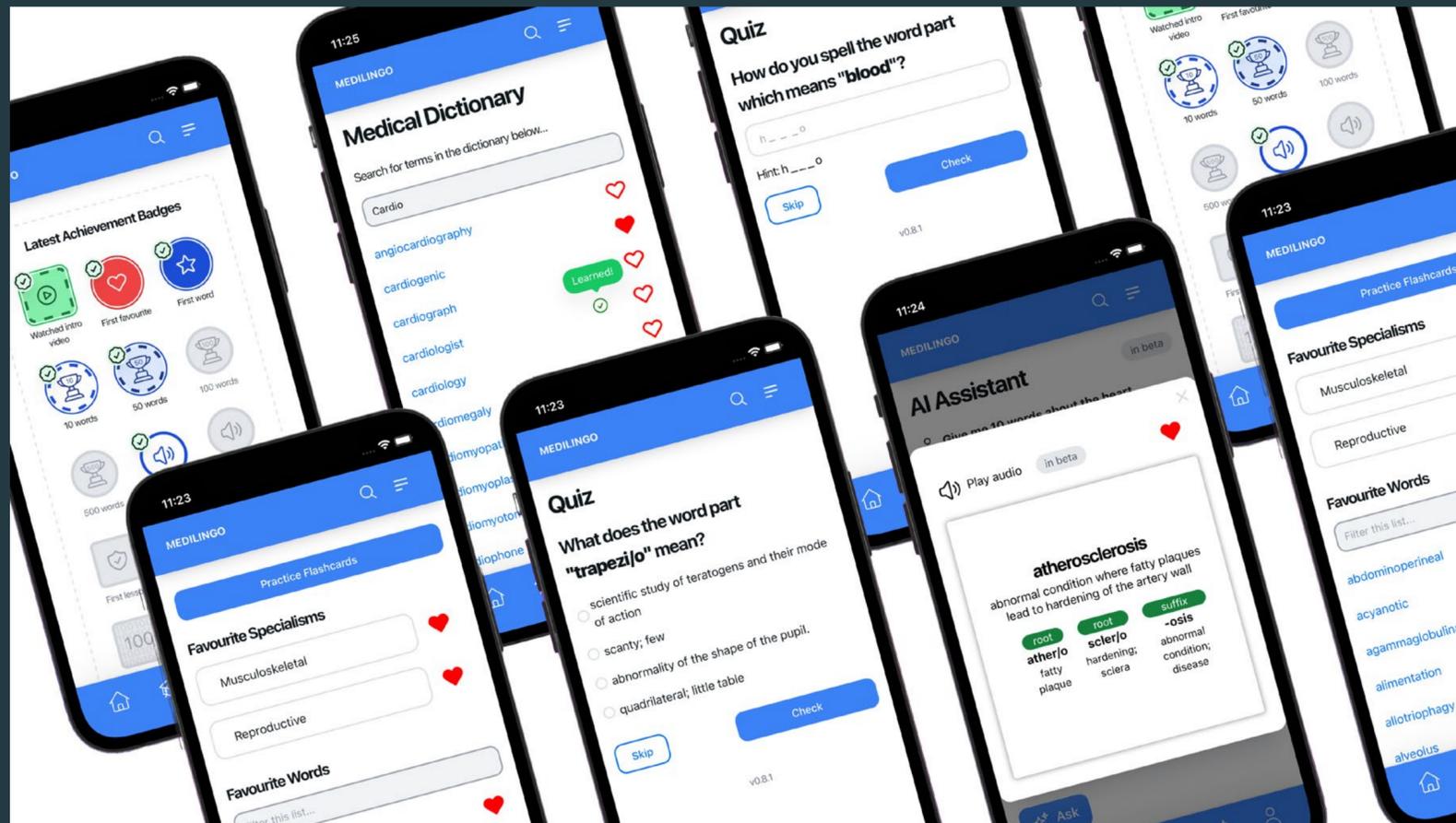
BNU Research on a Postcard

mLearning Medical Terminology with MediLingo (medilingo.co.uk)

10:
Nicole McAllister
Associate Lecturer
(School of Nursing and Midwifery)

Taryn Tavener-Smith
Lecturer
(School of Nursing and Midwifery)

Jonathan Jackson
Senior Lecturer
(School of Creative and Digital Industries)



Medical terminology enables effective communication by offering precise meanings regarding patient health. Learning medical language is challenging due to the complex Greek and Latin word parts used to construct terms. The MediLingo team have conducted a series of exploratory studies to ascertain nursing students' experiences of using MediLingo to help them learn medical terminology like a language. 95% of users agree that MediLingo is beneficial to their learning owing to the integration of spaced concept repetition used to decode complex terms. MediLingo's accessibility is a highly valued feature as it facilitates seamless movement between university study and clinical placement.

BNU Research on a Postcard

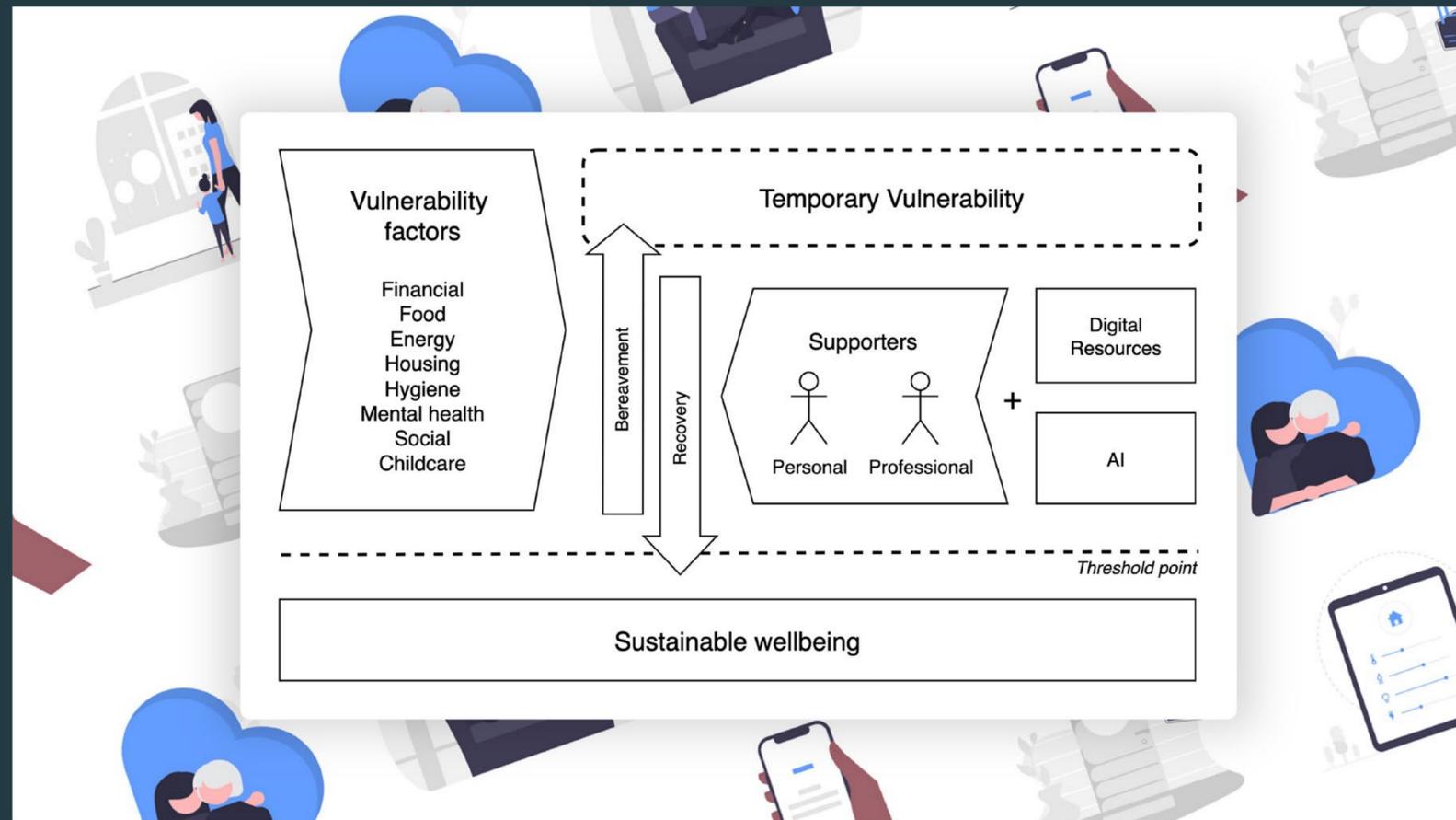
Empowering Supporters of Vulnerable Households Experiencing Sudden Bereavement Through the Potential Applications of Digital Technology and AI

11:

Jonathan Jackson
Senior Lecturer in Digital Apprenticeships
(School of Creative and Digital Industries)

Melanie Carter
Associate Lecturer
(School of Creative and Digital Industries)

Medical terminology enables effective communication by offering precise meanings regarding patient health. Learning medical language is challenging due to the complex Greek and Latin word parts used to construct terms. The MediLingo team have conducted a series of exploratory studies to ascertain nursing students' experiences of using MediLingo to help them learn medical terminology like a language. 95% of users agree that MediLingo is beneficial to their learning owing to the integration of spaced concept repetition used to decode complex terms. MediLingo's accessibility is a highly valued feature as it facilitates seamless movement between university study and clinical placement.



BNU Research on a Postcard

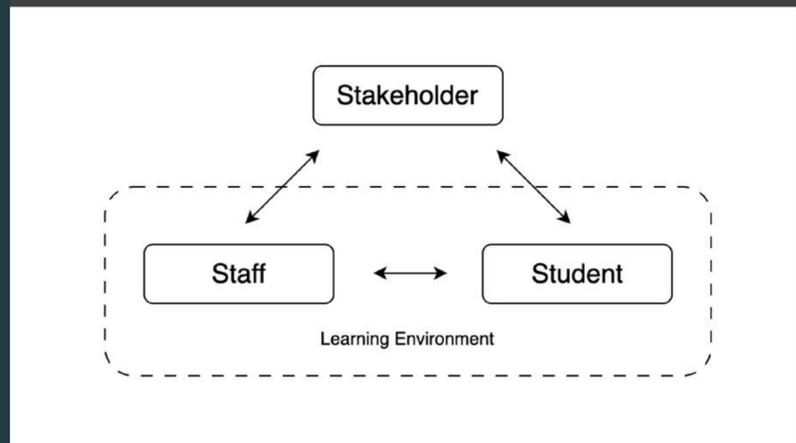
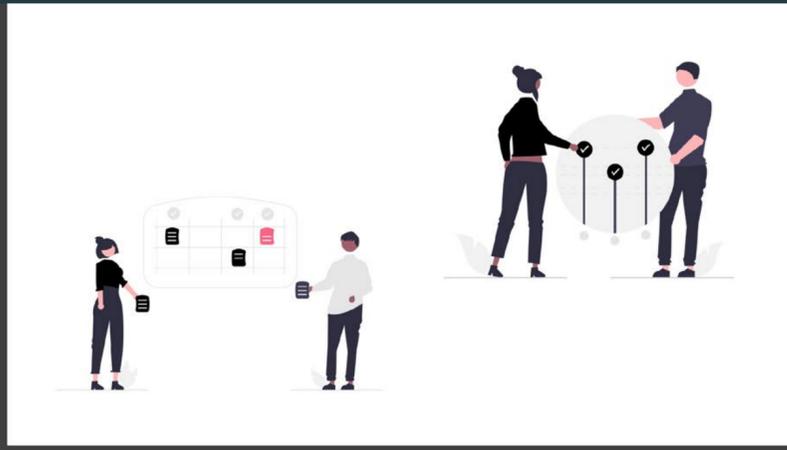
Enhancing Social and Emotional Learning and Employability through Team-based Live Brief Projects

12:

Jonathan Jackson
Senior Lecturer in Digital Apprenticeships
(School of Creative & Digital Industries)

Social and Emotional Learning (SEL) enables students to acquire and apply the knowledge, skills, and attitudes needed to manage emotions, develop empathy, and build healthy identities. Emotionally engaging students can support wellbeing and Live briefs with a significant social or civic focus can be of greater pedagogical value, enhancing their motivation and a deeper sense of commitment to the learning process. Live Briefs can epitomise authentic assessment which enable students to “find their place in society” (McArthur, 2023) and engage with employability as “a process of learning for life” (Oliver, 2015) rather than just a means to an end.

Learning Tracker	Education	Digital accessibility; Mental health	Digital Accessibility Manager
Embedded Trigger Warnings for a Media Streaming Service	Social; Commercial		
MediLingo: Medical Terminology Learning App	Commercial; Education	Educational Technology; Healthcare education	Extra-departmental academic
Reflecta: reflection for learning and wellbeing	Commercial; Education; Health	Wellbeing; Reflective learning; Privacy	Extra-departmental academic
Digital Communication Solutions for Private Healthcare Providers	Commercial; Health	Digital healthcare	General Practitioner (GP)
Food Poverty	Social; Health	Civic engagement; Food security	Head of Civic Engagement within



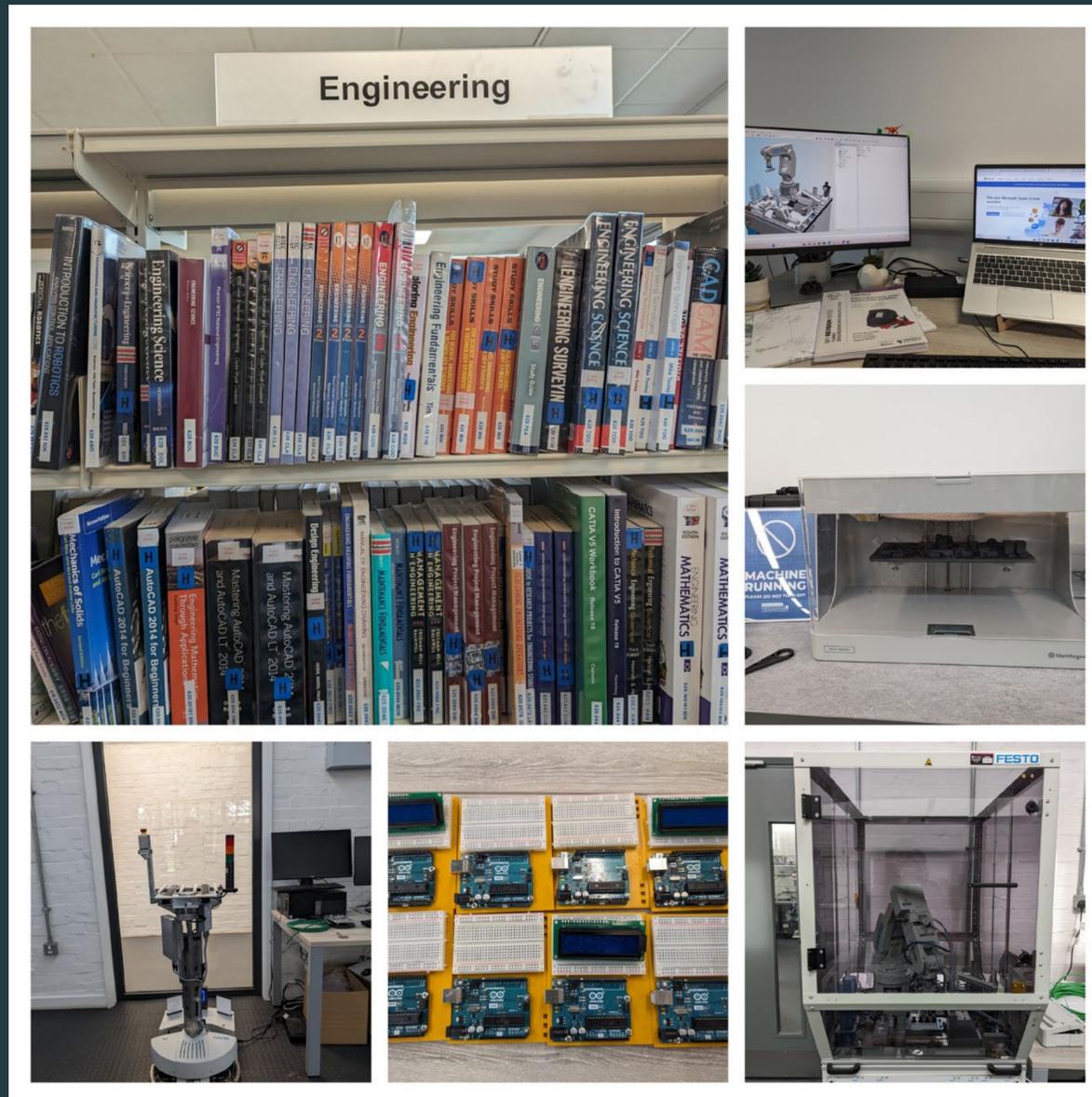
BNU Research on a Postcard

Blended and Adaptive Pedagogies to Support Hands-On Practical Learning Process Online in the HE Engineering Sector

13:

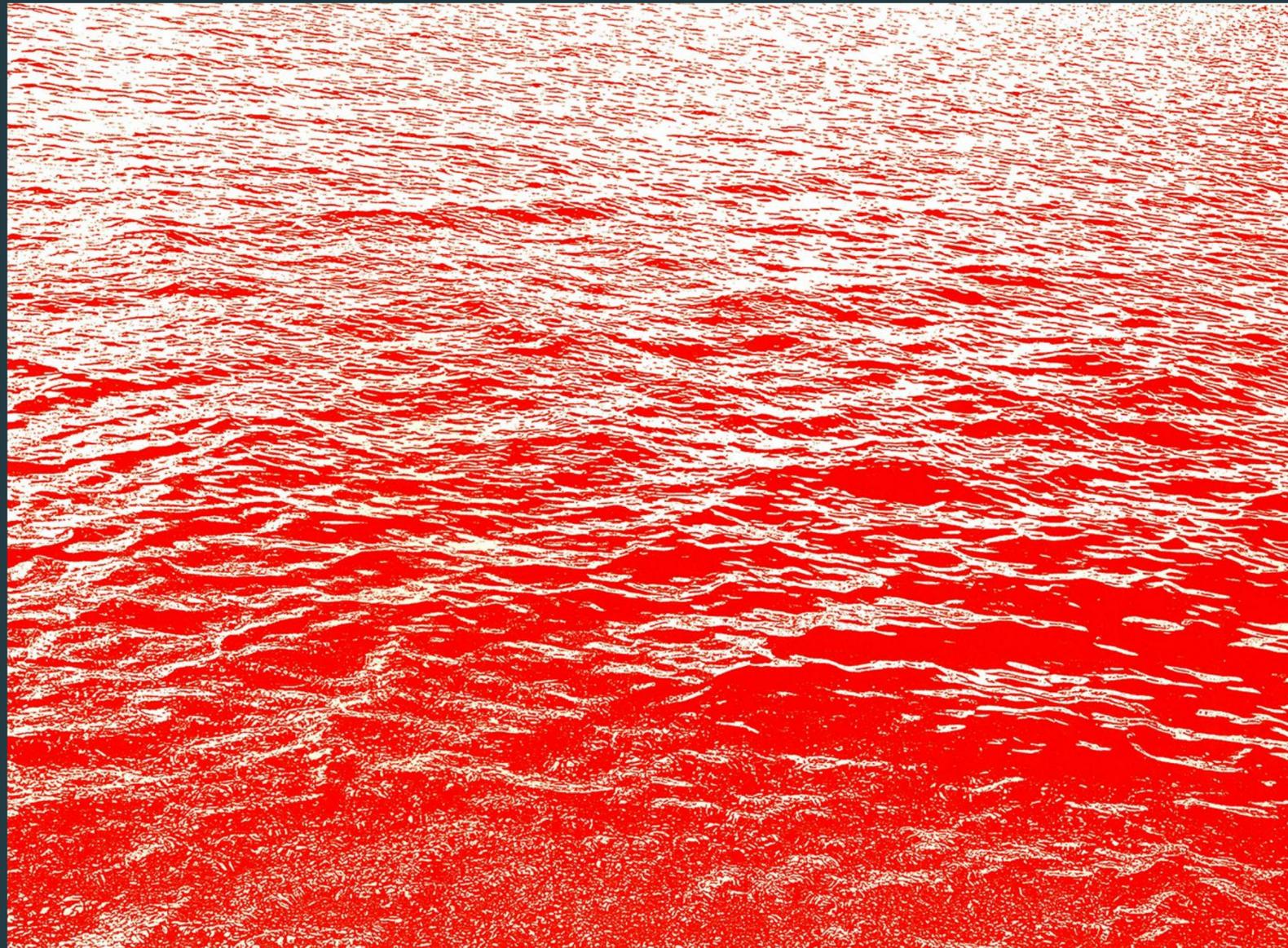
Ravinder Kaur
Postgraduate Research Student

The photo illustrates the blended pedagogy to support hands-on practical learning online in the engineering sector. Microsoft Teams is a commonly used platform for this blended learning approach. Books remain essential for forming new knowledge and understanding concepts. Additionally, 3D printing, Arduino and robotics are becoming central to STEM education and are advancing to higher education levels. Current trends in engineering, manufacturing, and automation are emphasizing robotics education. My research aims to bridge the gap between required skills and education by developing a blended learning pedagogy that integrates these cutting-edge technologies.



BNU Research on a Postcard *Red Sea*

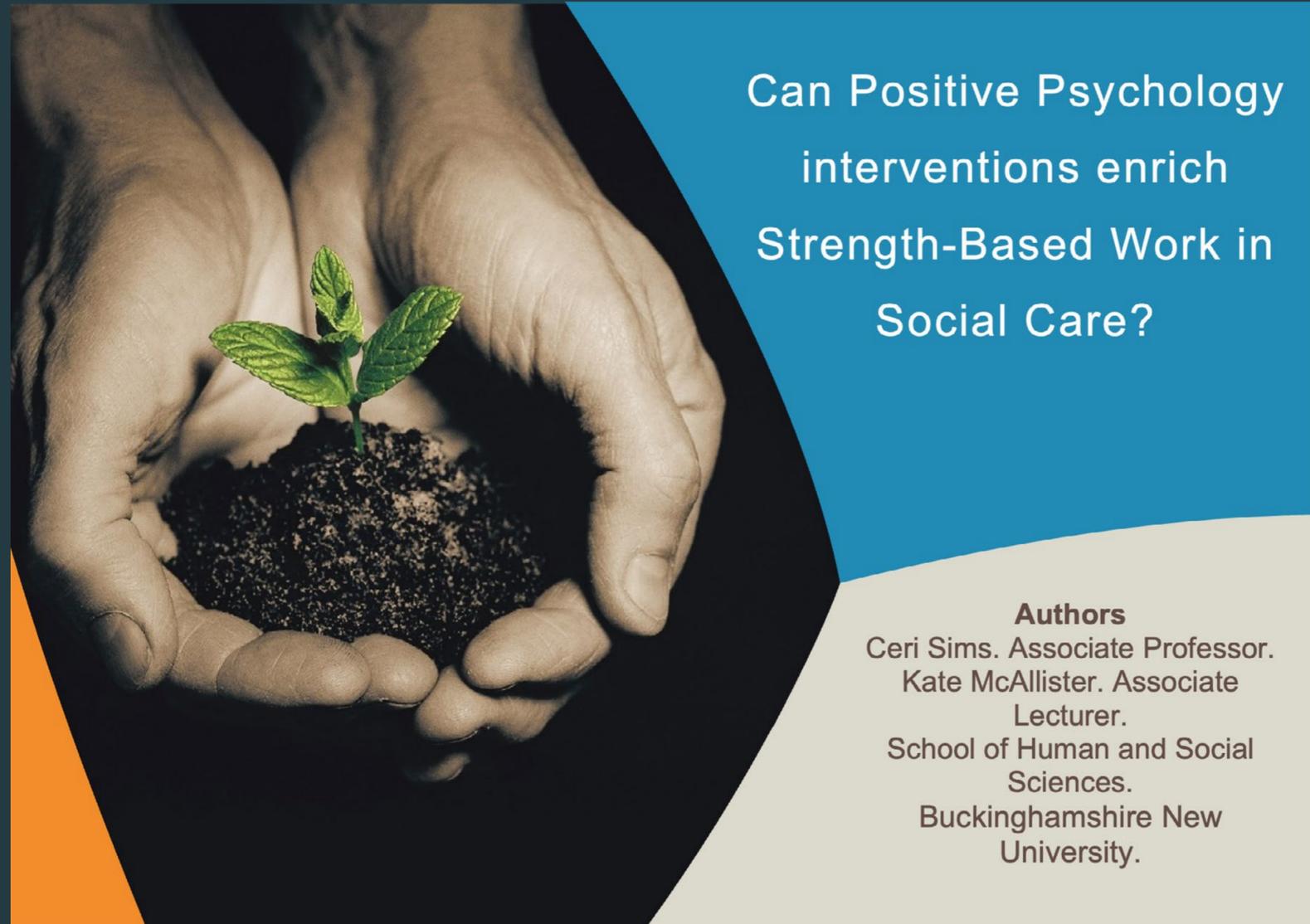
14:
Elisavet Kalpaxi
Senior Lecturer
(School of Art Design and Performance)



Red Sea was created in response to the ongoing refugee crisis and the thousands of people who lost their lives at sea in the last 15 years. The work is often presented as a stack of free posters in festivals and exhibitions and is accompanied by 'A Short Story from Lesbos Island', a first-person account of someone who did manage to cross the sea to Europe in 2016. The story belongs to *Walking Together: Collection of Short Stories on the Refugees' Right to the City* and was kindly selected by the book's editor, Charalampos Tsavdaroglou, to accompany the work.

BNU Research on a Postcard

Can Positive Psychology interventions enrich Strength-Based Work in Social Care?



Can Positive Psychology interventions enrich Strength-Based Work in Social Care?

Authors

Ceri Sims. Associate Professor.
Kate McAllister. Associate Lecturer.
School of Human and Social Sciences.
Buckinghamshire New University.

16:

Kate McAllister
Associate Lecturer
(School of Human and Social Sciences)

Dr Ceri Sims
Associate Professor in Psychology
(School of Human and Social Sciences)

This white paper explores differences between strengths-based approaches in Positive Psychology and Adult Social Care. Combining a scoping review of relevant literature with expert interviews, it identifies opportunities for enriching strengths-based practices in both sectors.

The paper suggests creating a Resource Pack for social care workers, providing guidance and examples of interventions from Positive Psychology. However, it acknowledges challenges such as time and resource constraints.

Overall, it advocates for a deeper understanding and cross-sector collaboration to maximize the effectiveness of strengths-based approaches in both fields.

BNU Research on a Postcard

Irish Nurses in the NHS

17:
Dr Tom McGorrian
Associate Professor in Film Production
(School of Creative and Digital industries)

This BNU produced oral history film tells the story of a forgotten but crucial component of the NHS's workforce: the Irish migrant nurses.

The film is comprised of interviews conducted by BNU's Dr Tom McGorrian with veterans of those waves of Irish nurse migrants from the 1950s to 1970s together with repurposing archive footage revealing the nursing environment they had to work in.

Its intended impact is to raise awareness about the enormous contribution of Irish Nurses to the NHS. This film will help to increase understanding and inform public opinion and so enhance understanding of this hitherto untold story.



BNU Research on a Postcard

Music4DisplacedDyads

18:
Dr Tom McGorrian
Associate Professor in Film Production
(School of Creative and Digital Industries)

Documentary filmmaking raises multiple challenges, with ethical issues first and foremost among them. Representing people with dignity and empathy is also of vital importance – especially when working in experimental settings, which bring issues of client confidentiality that require careful navigation, as well as cross-disciplinary collaborations.

This BNU produced film by Dr Tom McGorrian captures the process of delivering music therapy interventions across eight weeks, including psychological measures of wellbeing, parenting, and physiological stress regulation. It also depicts through interviews how anxiety reduced significantly with improvisational music therapy interactions across the group – including traditional Ukrainian folksongs, lullabies and nursery rhymes.

Pictured: Music Therapist, Ellie Matthews, with Ukrainian mums and their toddlers



BNU Research on a Postcard

Dogs: An Inert State

19:

Alexandra Murphy
Senior Lecturer

(School of Art, Design and Performance)

Upon viewing these dogs, they appear to be alive in as much as the photograph represents them this way. However, in taking a closer look, one realises that these noble creatures are in fact, inert behind museum glass - taxidermy specimens on display as part of a unique Natural History Museum collection at Tring. These portraits form part of my research into psychoanalyst Sigmund Freud's most speculative metapsychology - that of the death-drive. Through this project, I propose that the relationship between the photograph and the taxidermy specimen represents a metaphorical double defiance of death.

Image caption:

Shahzada and Marquis of Lorne, from the project *Dogs: An Inert State*, 2015 [1189 x 841mm giclée canvas print in Swept frame].

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BNU Research on a Postcard

Rebound to Recovery: Unlocking the power of trampoline exercise for Neurorehabilitation.

Can rebound exercise help adults with neurological disorders bounce back to better health



20:

Adaora Okemuo

Postgraduate Research Student

This 12-week study explored the effects of rebound exercise on the physical and psychological function of community-dwelling adults with neurological disorders, with participants attending once or twice weekly. Results reveal significant improvements in blood pressure, balance, walking speed, physical activity level, and quality of life. Rebound exercise offers a fun and accessible path to effective neurorehabilitation, with a minimum effective frequency of once a week! This finding holds significant implications for enhancing the accessibility and feasibility of rebound exercise in community-based rehabilitation programs.

BNU Research on a Postcard

Diversity Matters: Underrepresentation of Black and Minority Ethnic Officers within specialised police units in the United Kingdom

21:

Mohamed Omar
Senior Lecturer
(School of Aviation and Security)



This study provides a critical examination of the underrepresentation of Black and minority ethnic officers within the specialized units of the Police in the United Kingdom. Despite an increase in recruitment from such groups, there has been a lack of progression and retention of such officers. This entails a critical analysis of the barriers and challenges that the police are facing as well as perceptions and attitudes toward the diverse workforce within such units. The research seeks to address the issues of underrepresentation and propose appropriate solutions to improve the advancement of such groups within specialised units.

BNU Research on a Postcard

*A New Model for Creative Collaboration as
Practice Based Research*



22:

Messua Poulin-Wolff
Lecturer

(School of Art, Design and Performance)

Jon Place

Senior Lecturer

(School of Art, Design and Performance)

The research starts with an encounter with false colour imagery from satellite and drone map data provided by Dr Joseph Fennell from the Open University. The project employed a cross-disciplinary approach to data visualisation incorporating design thinking and bespoke interactive, collaborative processes to investigate how a creative engagement with false colour imagery might develop a model for future interdisciplinary collaboration. For a week, the student research assistants and academics worked together responsively, reactively, and playfully in an intensive week-long workshop to explore and ponder the potential to create a replicable framework to facilitate future collaborative possibilities.

BNU Research on a Postcard

*A New Model for Creative Collaboration as
Practice Based Research*

23:

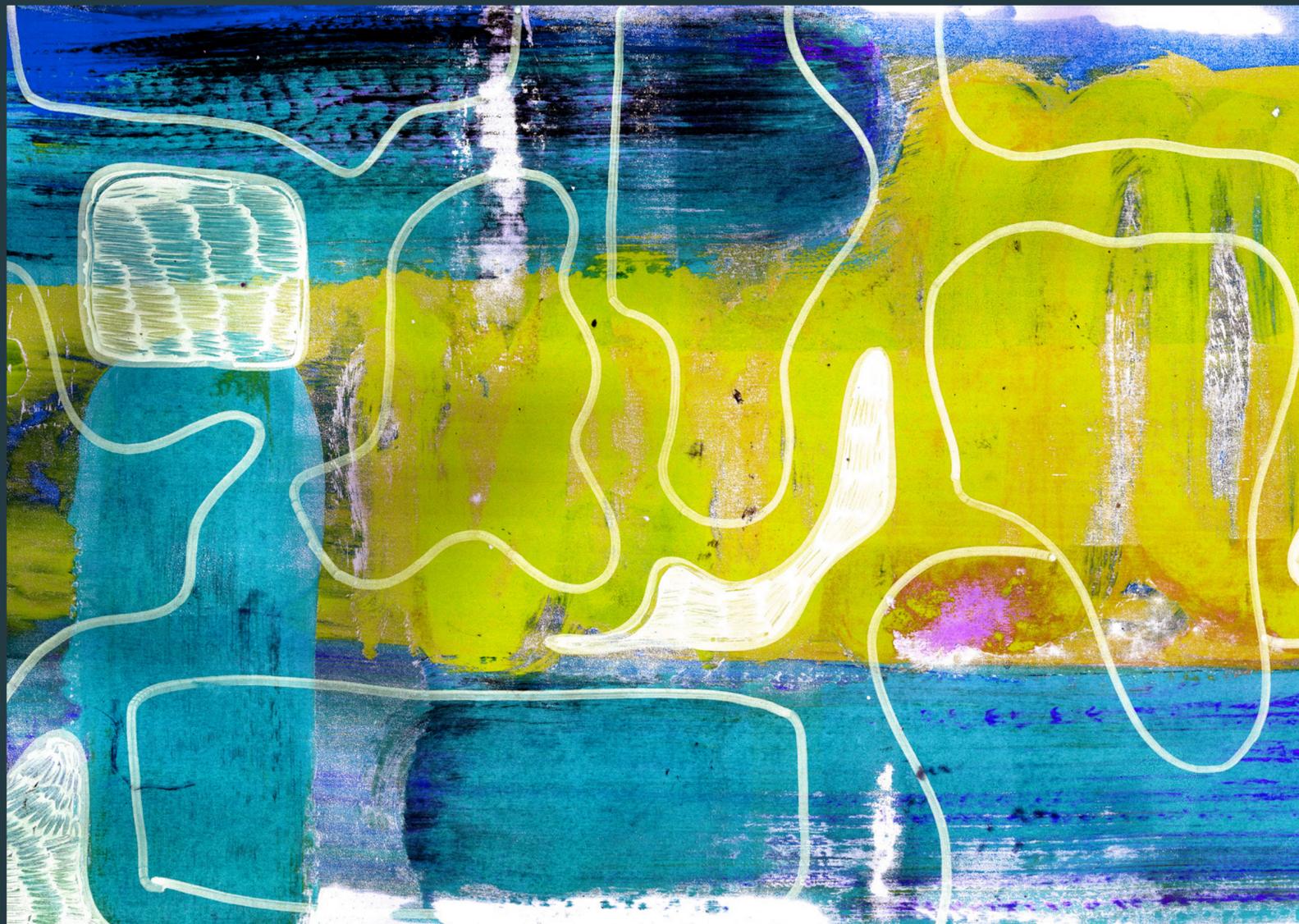
Messua Poulin-Wolff
Lecturer

(School of Art, Design and Performance)

Jon Place

Senior Lecturer

(School of Art, Design and Performance)



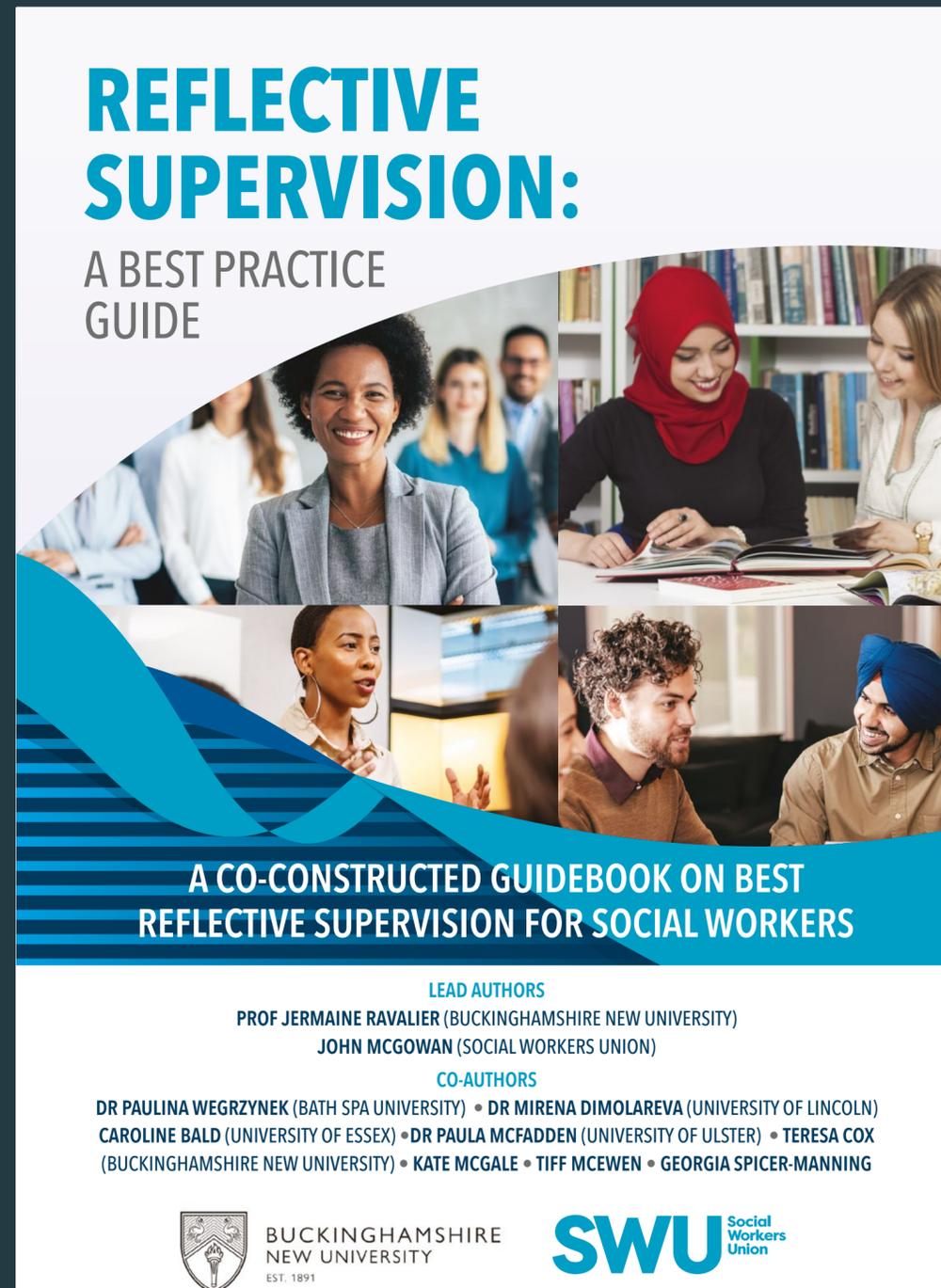
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BNU Research on a Postcard

Co-creating best practice reflective supervision for social workers

24:

Professor Jermaine Ravalier
Head of School
(School of Health and Social Care Professions)



Reflective supervision is a key component of social work practice. Good supervision means better outcomes for social workers and those they provide support to. However, often supervision simply does not occur, or is done so poorly. This project therefore worked with social workers from across the UK to co-develop Best Practice Reflective Supervision for social workers. We undertook a rapid review of the literature and series of individual interviews and focus group discussions with social workers. The guide developed outlines what good supervision looks like, based in the principles of Appreciative Inquiry, and is endorsed by the most influential social work organisations in the UK.

Launch of the guide is happening on June 17th in Edinburgh.

BNU Research on a Postcard

Working conditions and wellbeing in UK social workers

25:

Professor Jermaine Ravalier
Head of School
(School of Health and Social Care Professions)

Social Worker
Wellbeing and
Working Conditions:

Good Practice Toolkit

Version 1.2 – November 2020



Social workers play a key role in supporting some of the most vulnerable people to live the most fulfilled lives possible. However, turnover rates and stress sickness absence in social work are among the highest of all professions in the UK. Over the last 7 years, Ravalier and team have spoken to tens of thousands of social workers and found that their working conditions are amongst the worst of all occupations, and this is fuelling the high levels of turnover and sickness. From this work, Ravalier and team has co-created a wellbeing toolkit which has been used by social work employers across the UK to support their health, wellbeing and working conditions, and ultimately lead to better outcomes for service users.



Authors: **Dr Jermaine M Ravalier** Reader in Work and Wellbeing (Psychology) Bath Spa University
Dr Ruth Allen, CEO British Association of Social Workers
Foreword by **John McGowan**, General Secretary, Social Workers Union

BASW
The professional association for social work and social workers

SWU
Social Workers Union

BNU Research on a Postcard

Enhancing Early Breast Cancer Diagnosis Prediction Through Multidimensional Data Integration



26:

Dr Shahadate Revzy
Senior Lecturer
(School of Creative and Digital Industries)

Tasnim Akhter
Research Assistant
(School of Creative and Digital Industries)

Sihan Haroon
Associate Lecturer
(School of Creative and Digital Industries)

This research focuses on the early prediction of cancer diagnosis within 90 days using a dataset of about 39,000 records. This predictive modeling challenge utilises a broad range of patient data, including demographics, medical details, socioeconomic factors, and environmental influences, to assess the likelihood of a patient being diagnosed with cancer shortly. We are exploring the use of machine learning techniques such as Random Forest, Gradient Boosting Machines, Support Vector Machines, and Neural Networks to create models that predict whether a diagnosis occurs within this period, as indicated by the binary target variable “DiagPeriodL90D.” The study aims to enhance early detection and improve clinical decisions, potentially improving personalised healthcare and patient outcomes.

BNU Research on a Postcard

Automated 3D kidney blood vessel segmentation using deep learning techniques



27:

Dr Shahadate Revzy
Senior Lecturer,
(School of Creative and Digital Industries)

Dr Shah Siddiqui
Research Assistant
(School of Creative and Digital Industries)

Dr Alexander Gegov
University of Portsmouth

This research employs deep learning techniques for automated 3D segmentation of kidney blood vessels, using advanced machine learning models like U-net and Convnext. These models have demonstrated high effectiveness, achieving Intersection over Union (IoU) scores above 70%, indicating precise boundary delineation in kidney data, both dense and sparse. The study addresses significant challenges in segmenting the intricate vascular structures of human kidneys, revealing discrepancies across different image resolutions. Continued refinement of these algorithms aims to enhance their practical application in clinical settings, potentially improving diagnostic processes and medical imaging research.

BNU Research on a Postcard

*Building Energy Usage Predictions Using
Machine Learning Methods*



28:

Dr Shahadate Revzy
Senior Lecturer
(School of Creative and Digital Industries)

Tasnim Akhter
Research Assistant
(School of Creative and Digital Industries)

Dr Tahmina Zebin
Brunel University

Buildings are significant global energy consumers and major contributors to CO₂ emissions. Enhancing their energy efficiency is vital for climate change mitigation and sustainable urban development. This research applies machine learning to a large dataset of building characteristics, weather conditions, and energy consumption to develop models that accurately predict Site Energy Usage Intensity (SEUI). We implemented four models—Decision Trees, Random Forests, Neural Networks, and XGBoost—each demonstrating low error rates and high R² values, showcasing their effectiveness in energy prediction.

BNU Research on a Postcard

An exploration of the lived experience of women with an informal/formal diagnosis of ADHD who self-medicate to manage symptoms and the support and services available in South Buckinghamshire.



29:

Chris Sallans

Senior Lecturer

(School of Health and Social Care Professions)

Julie Stroescu

Research Assistant

(School of Human and Social Sciences)

Hiva Khoshandam

Research Assistant

(School of Human and Social Sciences)

Women with ADHD who self-medicate: Focussing on women who have a formal/informal diagnosis of ADHD and how they manage symptoms through self-medicating. The lived experience and experience of support services in South Buckinghamshire will be captured via focus groups. An investigation into what support services are available to women with neurodiversity in South Buckinghamshire will be explored through semi-structured interviews with professionals.

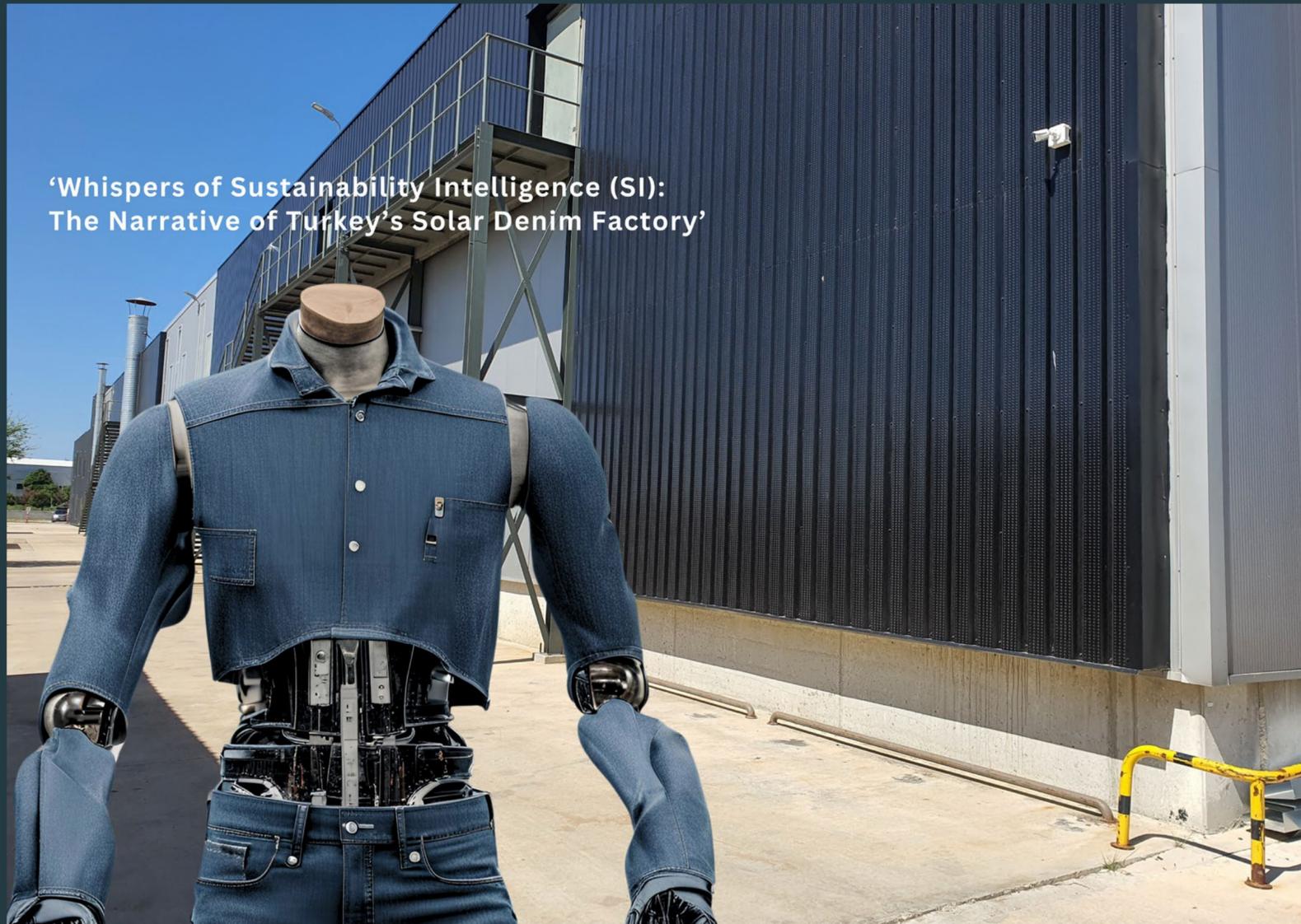
BNU Research on a Postcard

Sustainability Intelligence (SI): Guiding Decisions and Policies for a Transformative Design of the Denim Industrial System

30:

Gurpreet Singh
Postgraduate Research Student
(School of Art, Design and Performance)

My PhD research introduces Sustainability Intelligence (SI) as a critical framework guiding the denim industry toward sustainable transformation. Through engagements with industry leaders and comprehensive field studies in global denim capitals, I develop tools like the Sustainability Intelligence Navigator (SIN) and Synthesis (SIS) to equip professionals with capabilities that foster systemic implementation of sustainability. These elements integrate decision-making with policy, promoting practices that are environmentally conscious and economically viable. This image captured in a solar-powered denim factory in Turkey, visually represents the integration of SI in real-world applications, showcasing its potential for sustainable advancement in fashion.



BNU Research on a Postcard

Therapeutic sounds design in games and serious games.

31:

Dr Safa Tharib
Senior Lecturer

(School of Creative and Digital Industries)

Estabraq Makiyah

Lecturer

(School of Creative and Digital Industries)

Dr. Eunice Bamgboye

ICS Innovative Solutions

Dr. Shaojun Bain

Senior Lecturer

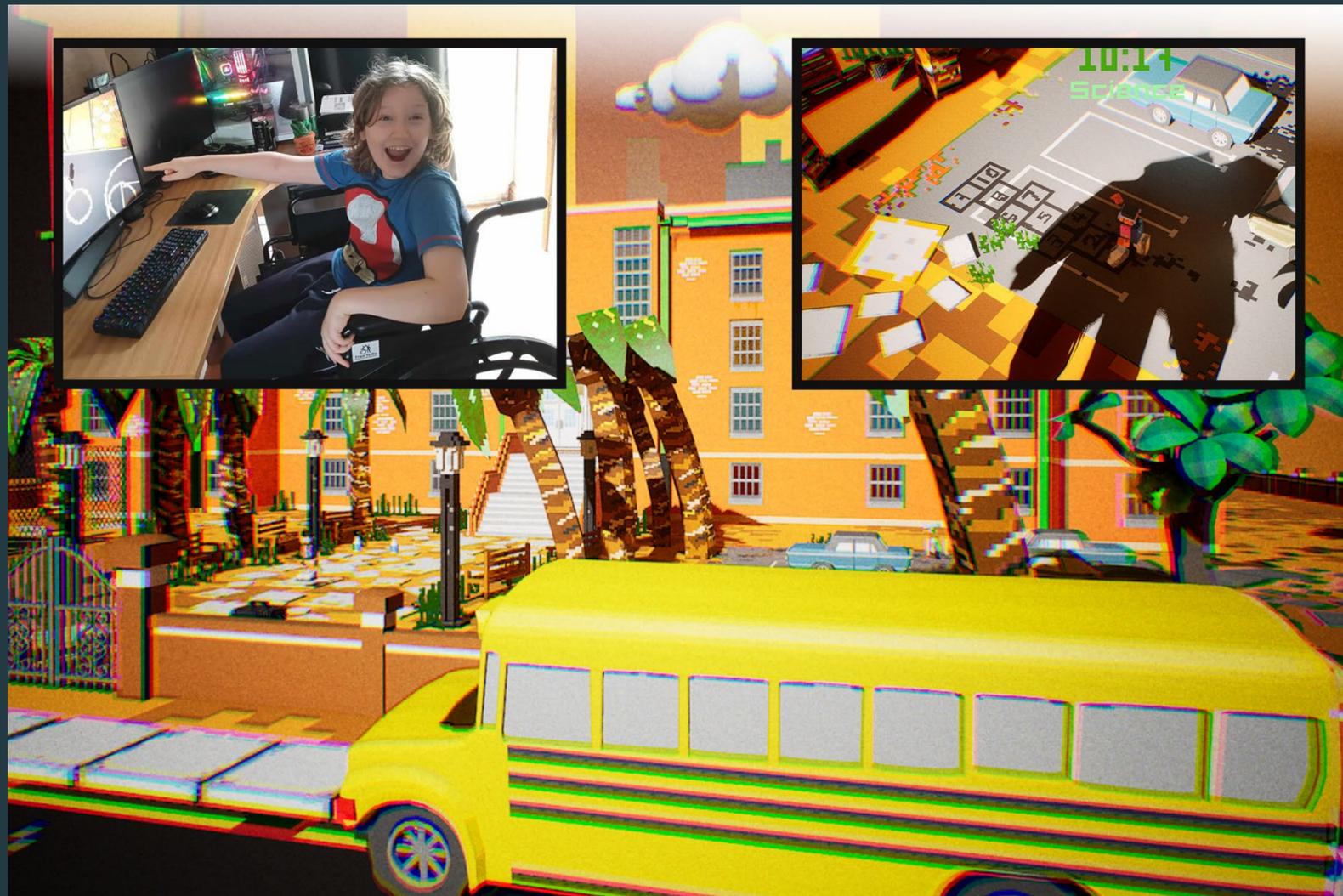
(School of Creative and Digital Industries)

Elle Bromfield

Lecturer

(School of Creative and Digital Industries)

Our project aims to develop gamified AI enabled games to assist individuals with social interaction difficulties, while also serving as a social research platform which is utilised in this study for therapeutic sound research. By combining advanced AI techniques for realistic NPC dialogue with sound frequency therapy, the game will simulate lifelike social interactions and embed therapeutic soundscapes. This innovative approach addresses significant societal challenges, enhances social skills, and promotes mental well-being. Our methodology includes rigorous testing, user feedback, and pilot studies, ensuring the game's effectiveness as a therapeutic tool and contributing to broader academic discourse in AI and digital mental health.



BNU Research on a Postcard

ADA Project

32:

Dr Safa Tharib
Senior Lecturer,
(School of Creative and Digital Industries)

Dr Benjamin Aziz
Associate Professor
(School of Creative and Digital Industries)

Dr Erica Yang
(Chilton Computing)

Peter Richards
(Chilton Computing)

Gareth Hewlett
(Flying River Labs)

The ADA Project provides advanced converged 5G networking with edge computing, enhancing AI models to help healthcare workers improve consistency of care giving and reduce their stress levels using highly reliable sensors and AR glasses. This innovative solution surpasses current remote monitoring systems by offering real-time AI recommendations and enabling remote specialists to see from the healthcare worker's perspective. For instance, if a patient falls, the care worker can immediately receive expert advice without using their hands, allowing for uninterrupted tactile care. The 5G connectivity ensures that sensors and AR glasses function without buffering or data loss, while adaptable connectivity grades allow seamless operation across different care environments, ensuring continuous, secure data processing.



BNU Research on a Postcard

From tiny bubbles of knowledge to geysers of evidence-based practice: Evaluation of learning and role development following completion of a neuroscience course

(Presented at the European Association of Neuroscience Nurses Conference in Iceland, May 2024)



33:

Ruth Trout
Senior Lecturer
(School of Nursing and Midwifery)

Aim: Audit to gain insight into how students practice and role has changed since completing a neuroscience course.

Method: Questionnaire sent to all previous students (N: approx 100) with closed and open ended questions. Response rate 9.

Results: Practice and confidence changed for all respondents and many learners have since implemented practice improvement projects. There is a strong correlation between course completion and promotion including into leadership roles or education/ research roles with learners now confident to teach junior members of staff. Learners are more likely to stay in their job and are more effective and efficient practitioners with increased morale.