

Name	Email	Subject	Title
<u>Hannah Little</u>	<u>Hannah.Little@uwe.ac.uk</u>	Science Communication	1) The cultural evolution of scientific information: exploring biases in science communication
			2) Exploring the use of comedy to communicate science: the advantages and risks of being funny
<u>Emma Weitkamp</u>	<u>Emma.Weitkamp@uwe.ac.uk</u>	Science and communication	1) Environmental science cartoons: analysis of content (or) reader impact
			2) Performed science: exploring the audience for science theatre
<u>Annabelle Hodson</u>	<u>Annabelle.Hodson@uwe.ac.uk</u>	Forensics	1) The synthesis and application of photosensitive polymers for finger mark detection.
		Medicinal Chemistry	1) The development of green methods of synthesising medicinal agents.
<u>Kevin Honeychurch</u>	<u>Kevin.Honeychurch@uwe.ac.uk</u>	Biosensing	1) Gas chromatography mass spectrometric (GC/MS) investigations of biomarkers for poly-microbial infections. (Collaboration with the University of Bristol).
			2) Chemical Modification of Electrode Surfaces.
<u>Adrian Crew</u>	<u>Adrian.Crew@uwe.ac.uk</u>	Biosensing Technology	Investigations into the development of electrochemical sensors for the measurement of target metal ions for environmental studies on different soil systems (in collaboration with John Hart)
<u>Tony Killard</u>	<u>Tony.Killard@uwe.ac.uk</u>	Biomedical, Biosensing	1) Development of non-invasive diagnostic devices for diabetes.
			2) Paper-based diagnostic device for low-resource environments.
			3) New approaches to studying red blood cell deformability.
			4) Fabrication and application of integrated point of care diagnostics.
<u>Aniko Varadi</u>	<u>Aniko.Varadi@uwe.ac.uk</u>	Biomedical, Biosensing	1) Early detection of the development of diabetic foot by using a digital nose device, NeOse.
<u>Saliha Saad</u>	<u>Saliha.Saad@uwe.ac.uk</u>		2) Investigation the clinical utility of periodontal disease for predicting glycaemic control and insulin responsiveness in diabetics.
<u>Ben de Lacy Costello</u>	<u>Ben.DeLacyCostello@uwe.ac.uk</u>	Forensics and Biomedical	1) Early detection of colon cancer using the detection of volatile disease markers by gas sensors and mass spectrometry
			2) The detection of trace explosives and compounds useful for medical diagnosis using multi-mode gas sensors
<u>Emmanuel Adukwu</u>	<u>Emmanuel.Adukwu@uwe.ac.uk</u>	Biomedical Sciences, Public Health	1) Natural products as sources of antimicrobials against clinical and environmental pathogens
			2) Survival mechanisms of bacteria and fungi- spores and biofilms
			3) Disinfectant capabilities of novel plant based products
			4) Water Sanitation and Hygiene (W.A.S.H) research with focus on Africa

			5) Investigating antibiotic compliance, mechanisms and drivers of resistance in the UK and abroad
			6) Global Health - Use of social science tools to investigate characteristics of and drivers of communicable and non-communicable diseases
<u>Jennifer May</u>	Jennifer2.May@uwe.ac.uk	Biomedical	1) Investigation of genotoxicity in the bone marrow.
<u>Mo Salehan</u>	Mo.Salehan@uwe.ac.uk		2) Interaction between leukaemic and bone marrow stromal cells.
<u>Sarah Dean</u>	Sarah4.Dean@uwe.ac.uk	Biomedical	1) Breast cancer co-cultures with breast cancer cell lines and other cells found in the breast such as adipose and fibroblasts.
			2) Role of Fatty acid binding proteins (FABPs) in leukaemia.
<u>Tim Craig</u>	Tim.Craig@uwe.ac.uk	Biomedical	1) Alzheimer's Disease and Type-2 Diabetes – investigating the link between two modern plagues.
			2) Osteoarthritis and metabolism – how does diet cause damage to bones?
<u>Jason Mansell</u>	Jason.Mansell@uwe.ac.uk	Biomedical	1) Polydopamine-functionalised titanium as a novel surface finish for dental and orthopaedic applications.
			2) Exploring the potential of converging vitamin D and cytoskeletal signalling networks in tackling bone cancer.
			2) Mussel-inspired reactive platforms for enhancing the performance of bone graft substitutes and implantable ceramics.
<u>Lynne Lawrance</u>	Lynne.Lawrance@uwe.ac.uk	Biomedical	1) Exploring issues of sustainability in the laboratory setting (In collaboration with Georgina Gough)
			2) Exploring uncertainty of measurement in clinical microbiology – would most suit biomedical science students but would consider others with microbiology background
<u>Bahareh Vahabi</u>	Bahareh.Vahabi@uwe.ac.uk	Biomedical	Investigating the role of mucosa in mediating the spontaneous contractions of the urinary bladder
<u>Adam Thomas</u>	Adam7.Thomas@uwe.ac.uk	Biomedical	1) p53 splice isoforms in promoting cell death in cancer therapy
<u>David Qualtrough</u>	David.Qualtrough@uwe.ac.uk	Biomedical	1) Investigating the role of the microbiome in colorectal cancer.”
			2) The potential role of oestrogen signalling in colorectal cancer metastasis.
<u>Mike Lodomery</u>	Michael.Lodomery@uwe.ac.uk	Biomedical	1) Targeting the ERG oncogene with splice switching oligonucleotides
			2) Targeting the CLK splice factor kinases in cancer.
<u>Myra Conway</u>	Myra.Conway@uwe.ac.uk	Biomedical	1) Targeting signalling pathways in Alzheimer's disease.
			2) Understanding nutrient restriction and its potential therapeutic advantages to improve
			3) Targeting novel pathways to treat triple negative breast cancer.

<u>Ruth Morse</u>	<u>Ruth.Morse@uwe.ac.uk</u>	Biomedical	1) Development of a 3D printed model of the liver as a source of metabolism in toxicity testing 2) The role of thalidomide and its derivatives in inducing therapy related malignancy through disruption of mitosis and chromosome loss
<u>Rhian Thomas</u>	<u>Rhian5.Thomas@uwe.ac.uk</u>	Biomedical	1) Cell based studies into the causes of Alzheimer's disease 2) Protein processing in Alzheimer's disease
<u>Kathryn Yuill</u>	<u>Kathryn.Yuill@uwe.ac.uk</u>	Biomedical	1) Investigating calcium signalling in myocytes 2) Pharmacological regulation of ion channel function 3) Investigating electrical activity in brain slices
<u>Adrian Kendrick</u>	<u>Adrian.Kendrick@uwe.ac.uk</u>	Biomedical	Hospital based projects on Sleep & Lung Function.
<u>Shona Nelson</u>	<u>Shona.Nelson@uwe.ac.uk</u>	Microbiology	Modelling of bacterial biofilms to study the effect of antimicrobial treatments.
<u>Helen Green</u>	<u>Helen4.Green@uwe.ac.uk</u>	Forensics	1) Detection of low level DNA during VWM processing 2) Enhancement of latent fingerprints on shot gun cartridges
<u>Sarah Bateman</u>	<u>Sarah3.Bateman@uwe.ac.uk</u>	Forensics	The spatial and temporal variation of trace forensic evidence from the outdoor environment
<u>James Costello</u>	<u>James.Costello@uwe.ac.uk</u>	Chemistry	Controlling Molecular Shape – Computational and Structural Studies of Organometallic Catalysts
<u>Robin Thorn</u>	<u>Robin2.Thorn@uwe.ac.uk</u>	Microbiology	1) Investigating microbial metabolomics for better diagnostics; using selective ion flow tube – mass spectrometry to investigate microbial metabolic processes 2) Modelling wound biofilms – development of novel treatment strategies
<u>Dan Turner</u>	<u>Dann2.Turner@uwe.ac.uk</u>	Biological Sciences	Genome sequencing and annotation of novel bacteriophages of Acinetobacter spp.
<u>John Hancock</u>	<u>John.Hancock@uwe.ac.uk</u>	Biological Sciences	Reactive compounds and gases used in cell signalling. These projects will investigate the roles of reactive oxygen species, nitric oxide, hydrogen sulfide or hydrogen gas in a model biological system. The impact on such compounds on the molecular events in cells will be studied with a view to gaining a greater understanding of how such molecules fit into the intricate web of cell signalling events. Model organisms may range across both animal and plant kingdoms, depending on specific interests.
<u>Dawn Arnold</u>	<u>Dawn.Arnold@uwe.ac.uk</u>	Biological	Effector gene persistence in bacterial plant pathogens
<u>Jacqueline Barnett</u>	<u>Jackie.Barnett@uwe.ac.uk</u>	Biological	Biosensor development for the detection of Cacao Swollen Shoot Virus (co-supervision with Joel Allainguillaume)
<u>Joel Allainguillaume</u>	<u>Joel.Allainguillaume@uwe.ac.uk</u>	Biological	Metagenomics studies of the microbiota of fermented cacao beans in chocolate
<u>Andy Wetten</u>	<u>Andy.Wetten@uwe.ac.uk</u>	Biological	Cacao swollen shoot virus and its mealybug vector

<u>Stephanie Sargeant</u>	Stephanie.Sargeant@uwe.ac.uk	Environmental Sciences	1 and 2 from: Seagrass accumulation of microplastics - Microbial degradation of environmental DNA (eDNA) - Developing environmental DNA (eDNA) as a tool for detecting illegal fish catch - Novel detection of bat roosts using environmental DNA (eDNA).
<u>Neil Willey</u>	Neil.Willey@uwe.ac.uk	Biological Sciences & Environmental Sciences	1) Biological Sciences – Nutrients & Contaminants In Primary Producers: Analysing the Elemental Stoichiometry of Plants. 2) Cons & Env Science – Radionuclides In the Severn Estuary Salt-Marshes: Establishing a Benchmark Before Nuclear New Build.
<u>Heather Macdonald</u>	Heather.Macdonald@uwe.ac.uk	Biological & Environmental Sciences	1) Interactions between Auxin, Ethylene and Nitric Oxide signalling in plants (Biological). Project will make use of transgenic Arabidopsis already constructed to look at phenotypic effects and NO localisation when auxin and ethylene signalling pathways are perturbed. 2) Mechanisms of uptake of Radionuclides by microalgae (Biological/environmental). Lab based experiments measuring uptake of Cs under different conditions and possibly moving on to look at effects of exposure on the algal cells.
<u>Sam Bonnett</u>	Sam.Bonnett@uwe.ac.uk	Environmental Sciences	1) Anthropogenic soil formation on Mars: assessing plant-microbial interactions within a Martian simulant regolith. 2) Seasonal and temporal variation in plant-soil functions within a recently installed PV farm.
<u>Mark Steer</u>	Mark.Steer@uwe.ac.uk	Conservation Sciences	1) Determination of eel habitat preferences using eDNA survey 2) Assessing the impacts of forest fragmentation on mammals in Madagascar: the efficacy of iDNA as a survey tool
<u>Alison Cotton</u>	acotton@bristolzoo.org.uk	Conservation Sciences (Bristol Zoo)	Utilising eDNA technology to assist with African penguin conservation
<u>Grainne McCabe</u>	gmccabe@bristolzoo.org.uk	Conservation Sciences (Bristol Zoo)	1) Manatee population survey in Costa Rica 2) Large mammal survey in Monte Alén National Park, Equatorial Guinea.
<u>Amanda Webber</u>	awebber@bristolzoo.org.uk	Conservation Sciences (Bristol Zoo)	Understanding the behaviour of the Sambirano fork-marked lemur (Phaner parienti) in the cacao plantations of northern Madagascar

<u>Daphne Kerhoas</u>	<u>dkerhoas@bristolzoo.org.uk</u>	Conservation Sciences (Bristol Zoo)	<ol style="list-style-type: none"> 1. Habitat preference and population density of the Visayan warty pig in the North West Panay National Park 2. Population density and habitat use of the Philippines long-tailed macaques in the North West Panay National Park 3. Human-wildlife interactions and assessment of sustainable livelihood projects in communities surrounding the North West Panay National Park 4. Avian species richness in North Negros National Park (and possibly mammals) using camera traps and transects data 5. Habitat suitability for the Negros bleeding-heart dove of the Danjungan Island (including resource availability and predator assessment) 6. Population density and nesting frequency of green sea turtles on Danjungan Island 7. Using camera traps to quantify warty pig “crop raiding” and mitigate conflict in the Central Panay Mountain Range, the Philippines 8. Analysing the social and ecological impacts of community livelihoods projects in the Northwest Panay Peninsula, the Philippines 9. Analysing the social and ecological impacts of community-based fisheries management in the Northwest Panay Peninsula, the Philippines 10. Using playback devices to survey for Negros bleeding-heart doves in the Sebaste district, Northwest Panay 11. Updating best-practice guidelines for the captive care and breeding of Negros bleeding-heart doves
<u>Tim Bray</u>	<u>TBray@bristolzoo.org.uk</u>	Conservation Sciences (Bristol Zoo)	<p>Bristol zoological society is involved in the conservation of the Critically Endangered lemur leaf frog. The project has partnered with the Veragua Rainforest Foundation and the 2019 project season is being planned.</p> <ol style="list-style-type: none"> 1) Can we identify threats to amphibian persistence in the region? Specifically is it possible to identify the presence of chytrid fungal pathogens in the habitat and relate this to abiotic factors and amphibian presence? 2) What are the population dynamics of the lemur leaf frog and other Critically Endangered frogs of the northern edge of the Fila Matama in the Cordillera de Talamanca?

<u>Mark Abrahams</u>	<u>MAbrahams@bristolzoo.org.uk</u>	Conservation Sciences (Bristol Zoo)	<ul style="list-style-type: none"> • Validating and applying the use of invertebrate derived DNA (dung beetle gut contents) to monitor populations of rare/ hunted vertebrates in tropical forests – desk, lab or field • Using camera traps to quantify warty pig “crop raiding” and mitigate conflict in the Central Panay Mountain Range, the Philippines - field • Analysing the social and ecological impacts of community livelihoods or fisheries projects in the Northwest Panay Peninsula, the Philippines - field • Updating best-practice guidelines for the captive care and breeding of Negros bleeding-heart doves – desk • The use of interviews as a large-scale tool to diagnose the degree of hunting sustainability in areas of the Amazon with differing levels of human population density and alternative protein availability - field • The cultural future of rural Amazonia. Lessons from the development trajectories of small cities – GIS/desk • Conservation conflicts between Zapatista and Maya communities surrounding the Lacandon forest, Chiapas, southern Mexico - desk • Review - Which traits are associated with burdensome crop-raiders? - desk • The anthropogenic evolution of Amazonian rivers. From uninhabited, to cul-de-sac, to bead-chain – GIS/desk • Review/CT data - Evidence for hunt-mediated “envelopes of abundance” for certain species in the Brazilian Amazon- camera trap/desk • Review – The extent of positive, non-natural biodiversity change -desk
<u>David Fernandez</u>	<u>David.Fernandez@uwe.ac.uk</u>	Conservation Sciences	<p>1) Effect of bushmeat hunting on the mammal community of Bioko Island, Equatorial Guinea: an iDNA approach.</p> <p>2) Acoustic monitoring of the Impact of forest degradation on the wildlife community of the Udzungwa Mountains, Tanzania</p>
<u>Paul Lintott</u>	<u>Paul.Lintott@uwe.ac.uk</u>	Conservation Sciences	<ul style="list-style-type: none"> • Assessing the effectiveness of green infrastructure for biodiversity and human health and wellbeing • Enhancing landscape connectivity within the urban matrix for biodiversity • The effectiveness of green bridges for biodiversity • Assessing the impact that music festivals have on wildlife • Determining the impact that electric vehicles will have on biodiversity • Assessing the impact of offshore wind turbines on bats and birds • An assessment of the public’s willingness to pay to support green infrastructure
<u>Farnon Ellwood</u>	<u>Farnon.Ellwood@uwe.ac.uk</u>	Conservation Environmental Sciences	[Eden Project and/or Borneo] How does nutrient input influence soil functioning in a canopy epiphyte?

<u>Jim Vafidis</u>	<u>Jim.Vafidis@uwe.ac.uk</u>	Conservation Sciences	<p>1) Developing applications of Unmanned Aerial Vehicles (UAVs) in species and habitat conservation and land management.</p> <p>2) Development of environmental DNA (eDNA) survey techniques for Shining Ramshorn Snail.</p>
<u>Emma Stone</u>	<u>Emma4.Stone@uwe.ac.uk</u>	Conservation Sciences	<ul style="list-style-type: none"> • Predictors of carnivore occupancy and diet in Kasungu National Park or Vwasa Marsh Wildlife Reserve, Malawi • Foraging and roosting ecology of Mops bat in Lilongwe city Malawi • Predictors of bat species diversity and abundance in montane fragmented woodlands of the Nyika plateau Malawi • Genetic diversity of high altitude montane bats in the mountains of Malawi • Behavioural and foraging ecology of Lissonycteris fruit bats in Malawi through radio tracking • Roosting, behavioural ecology, parasites and acoustics of bats in urban areas of Malawi • Disturbance and predation effects on Eidolon helvum (Straw coloured fruit bat) in Lilongwe city Malawi (Nov to April only) • Spatial ecology and resource use of urban Eidolon helvum (Straw coloured fruit bat) in Lilongwe city Malawi using GSM tracking (Nov to April only) • Ecology and spatial behaviour of dormice and bushbabies in urban areas of Malawi using box traps and radio tracking • Understanding human bat conflict in the UK using data from the BCT national helpline • Experimental studies to inform habitat management for shrill carder bees in the UK • Abundance of urban hedgehogs in Bristol using spotlighting and camera trapping • Urban bat ecology in Bristol UK